

Energy

Retail

Manufacture

Transportation

Healthcare

# Empowering a **SMART FUTURE** Avalue IoT Ready



- ▶ Healthcare
- ▶ Retail
- ▶ Transportation
- ▶ Industry 4.0
- ▶ Digital Signage
- ▶ Communication
- ▶ Surveillance
- ▶ Automation
- ▶ In-Vehicle
- ▶ Gaming

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# Avalueについて

2000年に設立されたAvalue Technology Inc.は、世界を代表する産業用コンピューティングのプロバイダーの一つであり、x86およびRISCアーキテクチャの開発に注力しています。Avalueは、産業用および組み込みマザーボード、コンピューティングシステム、パネルPC、コンピューターモジュール、さまざまなIoT対応製品を提供しています。

Avalueの最先端のソリューションは、高性能で長寿命の機能を備えた産業グレードのソリューションであり、お客様の期待に応えるとともに、医療・ヘルスケア、リテール、トランスポーターション、製造、ゲームエネルギーなど、さまざまな市場のアプリケーションに貢献します。

## Mission

### We Provide

Avalueは、さまざまな市場にソリューションを提供するため、幅広い製品とODMサービスをお客様に提供しています

## Vision

### We Become

組み込み産業に対し、プロフェッショナルなデザインおよび製造サービスを提供することにより、世界をリードする企業を目指しています。



**プロジェクト管理**  
PLM/EOL/ECR 管理  
リビジョン管理



**コンポーネントエンジニアリング**  
コンポーネントのコスト削減と  
リードタイムの短縮



**産業規格認証**  
ISO-9000/14000/13485  
UL/TS-16949



**グローバル物流サポート**  
サプライチェーン  
在庫管理  
倉庫管理  
資材取扱



**資料管理システム (DMS)**  
ODMとEMSの統合  
デザイン製造サービス

# Avalue グループ



USA

ヘルスケアソリューション  
エンベデッドプラットフォーム  
ODM ソリューションサービス



イギリス ヘルスケアサービス



日本

エンベデッドプラットフォーム  
ODM ソリューションサービス



China

Embedded Platform  
ODM Solution Service



USA

産業用マザーボード  
産業用システムプラットフォーム  
ODM ソリューションサービス



Avalue 本社

エンベデッドプラットフォーム  
産業用マザーボード  
Application-Ready Solution IoT/  
AI-Ready Solution  
ODM ソリューションサービス



Avalue ヘルスケア

医療製品  
医療製品ODM  
医療ソリューション



台湾高雄  
製造工場(EMS)



2006

Avalueとの経営統合により、エンジニアリングリソースを統合し、2つのブランド戦略を維持しながら、産業用ボードとシステム製品の事業を確立



2013

AvalueがEversunに投資し、完全な製造サービスを展開(EMS)



2014

患者サイドで機器や臨床情報へのアクセスをやすくするモバイルプラットフォームを提供



2024

医療/ヘルスケア製品およびソリューションの提供

## Applications

Avalueのソリューションは、様々な用途で使用でき、お客様が高い統合性、高機能性、そして迅速な市場投入のメリットをお受けできるよう支援します

ヘルスケア

リテール市場

製造

トランスポーターション

エネルギー

# Edge AI Servers Solutions for GenAI

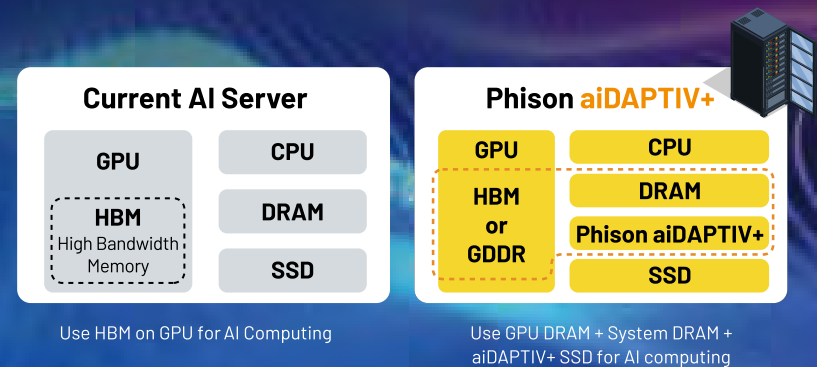


## 優れたコストパフォーマンス

データ集約型のワークロード向けに設計されており、生成AIを導入しようとしている企業、政府機関、または研究機関に最適です。お客様に、データ集約型AIワークロードを処理するために必要なストレージ、スケーラビリティ、および処理能力を提供します。

## aiDAPTIV+ による手頃な価格でのイノベーション aiDAPTIV+ の仕組み：

- AIコンピューティングアーキテクチャを変更する
- 既存のAIフレームワークとシームレスに統合し、パフォーマンスを最適化する
- AIモデルの事前トレーニングの効率と効果を向上させる



## GAI システムシリーズ

## Avalueオンプレミス サーバーの利点

- 優れたコストパフォーマンス
- エッジで機密データを保護する
- 随時導入可能/スケーラビリティ
- AIワークロードのためのワンストップサポートとカスタマイズ

# Your GenAI Server, Your Way



## Avalue GenAI Server

- | 総合的で正確な知識ベースを構築
- | ドメイン特化型モデルの調整
- ▶ ソリューションの高い柔軟性  
(70B/70B-Lite/33B)
- ▶ 導入が簡単  
(4Uラックマウント / タワー)
- ▶ NVIDIA AI 対応ソリューション
- ▶ エキスパートトライアル版の  
ファインチューニング

## What Avalue offers

### セレクションガイド

|                           | GAI-ERS-70B                                    | GAI-ERS-70B-Lite               | GAI-ERS-33B                    |
|---------------------------|------------------------------------------------|--------------------------------|--------------------------------|
| RAM                       | 576GB                                          | 576GB                          | 256GB                          |
| Phison SSD                | 2 x 2TB                                        | 2 x 2TB                        | 1 x 2TB                        |
| Max. LLM<br>Training Size | 70B                                            | 70B                            | 33B                            |
| GPU Cards                 | 2 x Nvidia RTX6000<br>Ada/48GB                 | 4 x Nvidia RTX4000<br>Ada/20GB | 2 x Nvidia RTX4000<br>Ada/20GB |
| CPU                       | Intel Xeon 4510 (12C/24T) or Above             |                                |                                |
| Form Factor               | Tower or 19" 4U Rackmount                      |                                |                                |
| Power Solution            | 1300W                                          |                                |                                |
| Chipset                   | C741                                           |                                |                                |
| Pre-Loaded Software       | DeepMentor's Fine-Tune Expert<br>Trial Version |                                |                                |

## ファインチューニングエキ スパートとは？

トレーニングプラットフォーム  
統合されたデータセット管理、視覚的な  
トレーニング進捗の監視、プライバシーの  
ためのローカル処理、そしてチーム  
全体でのトレーニングを備えた、簡素化された  
ノーコードAIトレーニングプラットフォーム

## ヘアインチューニングエキスパート の主な利点：

- データプライバシーの確保  
企業の機密情報およびユーザーの個人  
データのプライバシーとセキュリティ  
を確保
- 運用コストを大幅に削減  
高額なクラウド推論コストと比較して、  
オンプレミスソリューションは運用コスト  
を大幅に削減可能
- ノーコードソフトウェア統合  
使いやすいAvalueのファインチューニング  
エキスパートソフトウェアは、コーディング  
の知識がなくても簡単に使用可能



# 産業用堅牢タッチパネルPC ソリューション



**ARC シリーズ**  
12.1"/ 15" Rugged  
Front IP65/ Rear IP41  
Panel PC

## 第13世代

Intel Raptor Lake PS LGAプロセッサ、  
最大10コア、5.2GHz

モジュラー  
ケーブルレス拡張  
ケーブルなしでI/O拡張が  
できる様々なIETモジュール

## 耐久性に優れた 堅牢デザイン

20Grmsの衝撃および最大3Grms  
の振動に対応

## シームレスな ネットワーク通信

2.5GLAN、WiFi6、Bluetooth、  
5Gの統合バリエーション

## ARC シリーズ

堅牢&完全フラット  
IP65 モニター



AvalueのARCシリーズモニターは、優れた耐久性と多用途性を提供する  
ように設計されており、10.1インチから21.5インチまでのさまざまな画面  
サイズを提供しています。産業用グレードでIP65認証を取得しており、  
ほこりや水に対して優れた保護性能を備えています。その堅牢な構造  
により、過酷な環境に最適です。

モニターは、デュアル5Wスピーカーと使いやすいOSDコントロールを搭  
載しており、機能が向上しています。VESAマウントやパネルマウント  
を含む柔軟な取り付けオプションにより、さまざまなインストール  
方法が可能です。拡張電圧オプションや、反射防止、抗UV/IR  
コーティングなどの特別な画面コーティングカスタマイズが可能です。  
ARCシリーズは多用途で、製造施設、インタラクティブキオスク、  
EV充電ステーションなど、過酷な環境で信頼性の高いパフォーマンスが  
求められるさまざまな用途で活用可能です。

# 完全防水パネルPC ソリューション

## M12 コネクタ

すべてのI/O用に  
防水IP67コネクタ

## IP65/66/69K

SPCシリーズ全機種に対応する  
6面IP65/66/69K認定

## 内部圧力自動調整

ほこりや水の侵入を防ぎ、  
圧力の均等化を実現

## お手入れが簡単

滑らかで光沢のある表面で、  
付着防止機能を備えています

**SPC シリーズ**  
IP65/66/69K  
ステンレススチール  
パネルPC

## OFP シリーズ オープンフレーム マルチタッチパネルPC



AvalueのOFPシリーズ、オープンフレームパネルPCは、Intel® Celeron®  
N3350/J3455および第11世代Intel® Core™プロセッサを搭載しています。これ  
らのプロセッサは、パフォーマンスの向上とコスト効率を提供し、複数のOS  
サポートも可能にしています。OFPシリーズは、ファクトリーオートメーシ  
ョン、キオスク、セルフサービス、HMIアプリケーションに最適なソリュー  
ションです。

OFPシリーズは、堅牢な設計と多用途な統合機能を兼ね備えており、産業環  
境で信頼性の高い高性能コンピューティングソリューションを必要とするシ  
ステムインテグレーターやOEMに最適な選択肢です。その柔軟なアーキテク  
チャと産業グレードの構造は、長期的な信頼性と簡素化されたメンテナンス  
を提供します。

# Medical Solution



**MAB シリーズ**  
医療グレード  
Box PC

## 第13世代

Intel Raptor Lake LGAプロセッサ、  
最大16コア24スレッドの  
ハイブリッド構成

## AI 対応

AIアプリケーション向けにNvidia  
PCIe x16グラフィックス  
カードをサポート

## 高い拡張性

フロントプレートのカスタマイズ  
と、4つのフルサイズ  
拡張スロットを搭載

## 医療グレード規格認証

UL60601-1 医療認証



**HID シリーズ**  
医療グレード  
Panel PC

## 第13世代

Intel Raptor Lake PS LGAプロセッサ、  
最大10コア、5.2GHz

## 医療グレード規格認証

UL60601-1 医療認証抗菌仕上げ

## スリム&スタイリッシュ なデザイン

さまざまな拡張オプションで、  
異なる統合ニーズに対応

## データおよびアクセス のセキュリティ

TPMおよびNFC/RFIDモジュールは、  
最高のセキュリティと  
コントロールを提供します





# ARM ベース Edge AI ソリューション

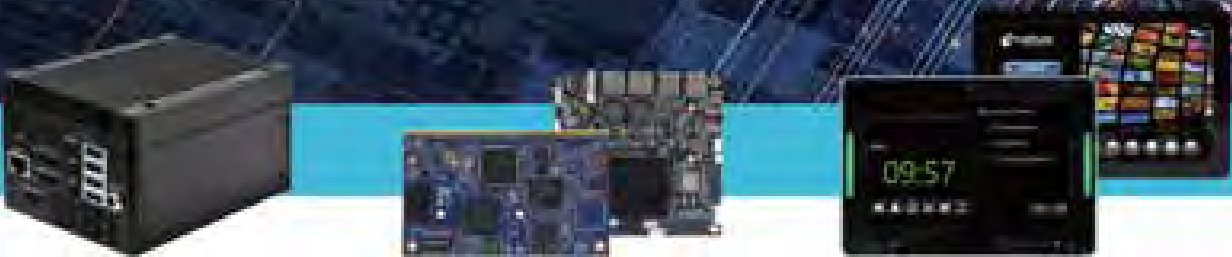
Edge AI SDK, サンプルコード,  
及びリファレンスデザイン

NVIDIA Jetson  
Orin/AGX Orin 20 から  
275 TOPSを提供

ARMプラットフォーム  
オプション  
Rockchip, NXP, HTK, Qualcomm

複数のフォーム  
ファクター対応:  
Box PC, Panel PC, SBC,  
SMARC, OSM

拡張温度&長期供給対応



AIB シリーズ      SMA/OSM シリーズ      OFT/ SID/ VNS シリーズ



## OS サポートリスト (Windows / Linux)

| ベンダー  | プラットフォーム        | シリーズ                       | Windows 10 | Windows 11 | Windows Server 2016 | Windows Server 2019 | Windows Server 2022 | Windows Server 2025 | Linux Kernel Version (またはそれ以降) | Ubuntu LTS (またはそれ以降) |
|-------|-----------------|----------------------------|------------|------------|---------------------|---------------------|---------------------|---------------------|--------------------------------|----------------------|
| AMD   |                 | EPYC 8004 Series           |            | V          |                     | V                   | V                   | V                   | Kernel 5.15                    | 22.04.1 LTS          |
| Intel | Mobile/ Desktop | Bay Trail                  | V          |            | V                   | V                   | V                   |                     | Kernel 3.11                    | 14.04 LTS            |
|       |                 | Skylake                    | V          |            | V                   | V                   | V                   |                     | Kernel 4.4                     | 16.04 LTS            |
|       |                 | Apollo Lake                | V          |            |                     |                     |                     |                     | Kernel 4.8                     | 16.04.3 LTS          |
|       |                 | Kaby Lake                  | V          |            | V                   | V                   | V                   |                     | Kernel 4.10                    | 16.04.3 LTS          |
|       |                 | Coffee Lake                | V          | V          | V                   | V                   | V                   |                     | Kernel 4.13                    | 16.04.5 LTS          |
|       |                 | Whiskey Lake               | V          | V          | V                   | V                   | V                   |                     | Kernel 4.18                    | 18.04.5 LTS          |
|       |                 | Comet Lake                 | V          | V          |                     | V                   | V                   |                     | Kernel 5.3                     | 20.04 LTS            |
|       |                 | Tiger Lake                 | V          | V          |                     | V                   | V                   |                     | Kernel 5.8                     | 22.04.2 LTS          |
|       |                 | Elkhart Lake               | V          | V          |                     |                     |                     |                     | Kernel 5.10                    | 20.04.5 LTS          |
|       |                 | Alder Lake                 | V          | V          |                     | V                   | V                   |                     | Kernel 5.18                    | 22.04.2 LTS          |
|       |                 | Alder Lake-N (Amston Lake) | V          | V          |                     | V                   | V                   |                     | Kernel 5.18                    | 22.04.2 LTS          |
|       |                 | Raptor Lake                | V          | V          |                     | V                   | V                   |                     | Kernel 5.18                    | 22.04.2 LTS          |
|       |                 | Meteor Lake                | V          | V          |                     |                     |                     |                     | Kernel 6.2                     | 22.04.5 LTS          |
|       |                 | Arrow Lake-S               | V          | V          |                     |                     |                     |                     | Kernel 6.X                     | Update Pending       |
|       | Server          | Skylake-SP                 | V          | V          |                     | V                   | V                   |                     | Kernel 4.10                    | 16.04.3 LTS          |
|       |                 | Cascade Lake               | V          | V          |                     | V                   | V                   | V                   | Kernel 4.18                    | 18.04.5 LTS          |
|       |                 | Sapphire Rapids            |            | V          |                     | V                   | V                   | V                   | Kernel 5.19                    | 22.04.2 LTS          |
|       |                 | Emerald Rapids             |            |            |                     | V                   | V                   | V                   | Kernel 6.X                     | Update Pending       |



Avalueの産業用および組み込み用マザーボードシリーズは、さまざまな人気のフォームファクターを提供しています。これには、3.5インチのシングルボードコンピュータ、Pico-ITX、Thin Mini-ITX、Mini-ITX、Micro ATX、ATX、ARMベースの組み込みボード等、さまざまな産業および組み込みコンピューティングニーズに対応しています。

# Industrial & Embedded Motherboard



### 1.8" SBC

1.8インチSBC組み込みマザーボードは、拡張温度と低消費電力を特長としており、さまざまなアプリケーションに対応し、お客様のご要望を効果的に満たします。



### 2.5" SBC Pico-ITX

Pico-ITXは、100x72 mmの小型組み込みシングルボードコンピュータ（SBC）で、低消費電力とファンレス動作をサポートしており、コンパクトな組み込みアプリケーションにシームレスに統合されます。



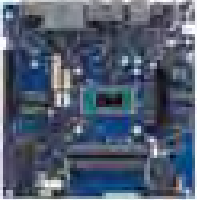
### 3.5" SBC

3.5インチSBC組み込みマザーボードは、拡張温度および拡張電力、低消費電力を提供し、さまざまなアプリケーションのニーズに対応する機能を備えています。



### ARM搭載SBC

ARMプロセッサを搭載したARMベースのSBC（シングルボードコンピュータ）は、SMARCモジュール、SBC、パネルPC、BOX PC、そしてRISC設計サポートサービスを含む、電力とパフォーマンスの最適化ニーズに対応します。



### Mini-ITX

Mini-ITX産業用マザーボードは、低消費電力で多用途なアプリケーションに適しています。



### Micro-ATX

Micro ATXは、コスト重視のアプリケーションに最適なサイズの組み込みマザーボードで、高速で便利、かつ簡素化されたソリューションを提供します。



### ATX

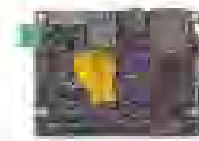
ATX産業用マザーボードは、高い計算能力と豊富なI/O統合を提供し、さまざまなアプリケーションに最適な組み込みプラットフォームを提供します。



### 周辺機器 & アクセサリー

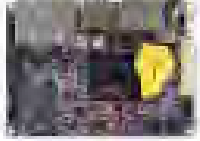
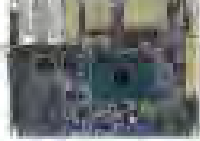
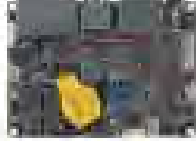
高品質な組み込み周辺機器（電源ボード、ディスプレイボード、I/O通信インターフェースなど）は、お客様が使いやすいコンピュータシステムを構築できるようサポートします。

## 1.8" SBC



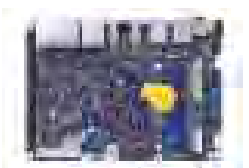
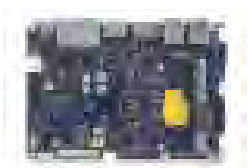
| Model Number        | EZX-EHLP                                                                              |
|---------------------|---------------------------------------------------------------------------------------|
| Processor           | Intel® Pentium®/ Celeron®/ Atom™ Processor                                            |
| System Chipset      | N/A                                                                                   |
| System Memory       | Single Channel LPDDR4 4/ 8GB Memory Down                                              |
| Expansion           | 1 x M.2 Key-B,<br>1 x Micro SIM to SIM Adapter by Option<br>Onboard eMMC              |
| Display             | Intel® UHD Graphics for 10th Gen Intel® Processors<br>Mini DP/ eDP                    |
| Resolution          | Mini DP++ : 4096 x 2160 @ 60Hz<br>eDP: 4096 x 2160 @ 60Hz<br>LVDS: 1920 x 1080        |
| Audio               | N/A                                                                                   |
| Ethernet            | 1 x Intel® I210AT/ IT                                                                 |
| USB/ SATA/ COM/ LAN | 6/ 0/ 1/ 1                                                                            |
| Power Requirement   | +12V                                                                                  |
| Power Type          | AT/ ATX                                                                               |
| Operating Temp.     | 0°C ~ 60°C (32°F ~ 140°F)<br>-20°C ~ 60°C (-8°F ~ 140°F) for Wide Temperature CPU SKU |
| Dimension (L x W)   | 3.3" x 2.5"<br>(85 x 65 mm)                                                           |
| Weight              | 0.66 lbs (0.3 kg)                                                                     |

## 2.5" SBC Pico-ITX



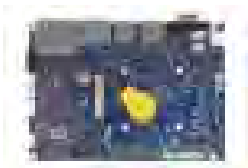
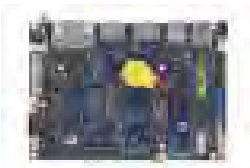
| EPX-ASLP                                                                                                                                                         | EPX-EHLP                                                                              | EPX-APLP                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Intel® N-series & Atom® Processor X Series                                                                                                                       | Intel® Celeron®/ Atom™ SoC Processor                                                  | Intel® Celeron® SoC Processor                                                                                  |
| N/A                                                                                                                                                              | N/A                                                                                   | N/A                                                                                                            |
| 1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 16GB                                                                                                             | 1 x 260-pin DDR4 2666MHz SO-DIMM Supports up to 32GB                                  | 1 x 204-pin DDR3L 1600 & 1333MHz SO-DIMM Supports up to 8GB                                                    |
| 1 x M.2 Key-B<br>1 x M.2 Key-E                                                                                                                                   | 1 x M.2 Key-B<br>1 x M.2 Key-E                                                        | 1 x M.2 Key-B<br>1 x M.2 Key-E<br>1 x Micro SIM to SIM Adapter by Option                                       |
| Intel® UHD Graphics<br>HDMI + DP + LVDS                                                                                                                          | Intel® UHD Graphics for 10th Gen Intel® Processors<br>2 x DP++/ LVDS                  | Intel® HD Graphics 500<br>HDMI + LVDS + DP++                                                                   |
| HDMI 2.0b Max Resolution 4096 x 2160 @ 60Hz<br>eDP: 4096 x 2160 @ 60Hz<br>DP 1.4a Max Resolution 4096 x 2160 @ 60Hz<br>LVDS 1366 x 768 Single Channel 18/24-bits | DP++: 4096 x 2160 @ 60Hz<br>LVDS: 1920 x 1080 (2 x DP++, LVDS)                        | HDMI 1.4b: 3840 x 2160 @ 30Hz<br>2560 x 1600 @ 30Hz<br>DP 1.2a: 4096 x 2160 @ 60Hz<br>LVDS: 1920 x 1800 @ 60Hz |
| N/A                                                                                                                                                              | N/A                                                                                   | Realtek Audio Codec<br>2 x 2W Audio Amplifier                                                                  |
| 2 x Intel® I226V/ IT                                                                                                                                             | 2 x Intel® I226LM/ IT                                                                 | 2 x Intel® I226LM                                                                                              |
| 6/ 1/ 2/ 2                                                                                                                                                       | 6/ 0/ 2/ 2                                                                            | 6/ 1/ 1/ 2                                                                                                     |
| +12V                                                                                                                                                             | +12V                                                                                  | +12V                                                                                                           |
| AT/ ATX                                                                                                                                                          | AT/ ATX                                                                               | ATX                                                                                                            |
| 0°C ~ 60°C (32°F ~ 140°F)<br>-40°C ~ 80°C (-8°F ~ 140°F) for Wide Temperature CPU SKU                                                                            | 0°C ~ 60°C (32°F ~ 140°F)<br>-20°C ~ 60°C (-8°F ~ 140°F) for Wide Temperature CPU SKU | 0°C ~ 60°C (32°F ~ 140°F)                                                                                      |
| 3.93" x 2.83"<br>(100 x 72 mm)                                                                                                                                   | 3.93" x 2.83"<br>(100 x 72 mm)                                                        | 3.93" x 2.83"<br>(100 x 72 mm)                                                                                 |
| 0.88 lbs (0.4 kg)                                                                                                                                                | 0.88 lbs (0.4 kg)                                                                     | 0.88 lbs (0.4 kg)                                                                                              |

3.5" SBC



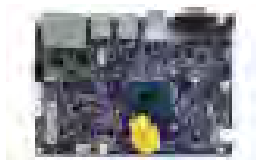
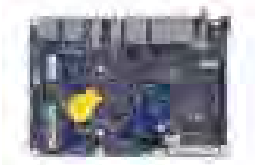
| Model Number      | ECM-MTL                                                                                                                                                       | ECM-RPL                                                                                                                                                         | ECM-TGU                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Processor         | Onboard Intel® Core™ Ultra 7/ Ultra 5 BGA Processor, Supports TDP 15/ 28W                                                                                     | Onboard 13th Intel® Gen Core™ i7/ i5/ i3/ Pentium®/ Celeron® BGA Processor, Supports TDP 15/ 28W                                                                | Onboard BGA 11th Gen Intel® Core™ Processors U-series & Celeron®                                                          |
| System Chipset    | N/A                                                                                                                                                           | N/A                                                                                                                                                             | N/A                                                                                                                       |
| System Memory     | 1 x 262-pin DDR5 5600MHz SO-DIMM Supports up to 48GB                                                                                                          | 1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 32GB                                                                                                            | 1 x 260-pin DDR4 3200MHz SODIMM, Supports up to 32GB (non ECC Supported)                                                  |
| Watchdog Timer    | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                                                                                 | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                                                                                   | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                                             |
| Expansion         | 1 x M.2 (2242) B-Key<br>1 x M.2 (2230) E-Key<br>1 x M.2 (2280) M-Key                                                                                          | 1 x M.2 (2242) B-Key<br>1 x M.2 (2230) E-Key<br>1 x M.2 (2280) M-Key                                                                                            | 1 x M.2 (2242) B-Key<br>1 x M.2 (2230) E-Key<br>1 x M.2 (2260 for 2242) M-Key                                             |
| Storage           | 1 x M.2 B Key (2242)<br>1 x M.2 (2280) M-Key<br>1 x SATA III                                                                                                  | 1 x M.2 B Key (2242)<br>1 x M.2 (2280) M-Key<br>1 x SATA III                                                                                                    | 1 x M.2 (2242) B-Key<br>1 x M.2 (2260 for 2242) M-Key<br>1 x SATA III                                                     |
| I/O               | 4 x USB 2.0, 3 x USB 3.2, 1 x USB Type C Support<br>DP/ USB 3.2 Gen 1, 5V x 3A<br>2 x RS-232, 2 x RS-232/422/485<br>1 x 8bit GPIO, 1 x SPI, 1 x e-SPI         | 4 x USB 2.0, 3 x USB 3.2<br>2 x RS-232/422/485<br>1 x 8bit GPIO, 1 x SPI, 1 x e-SPI                                                                             | 4 x USB 2.0, 4 x USB 3.1 Gen2<br>1 x SATA III, 4 x RS-232<br>2 x RS-232/422/485<br>1 x 8bit GPIO, 1 x LPC, 1 x SPI        |
| Display Chipset   | Intel® Xe LPG Graphics<br>1 x HDMI, 1 x DP, 1 x 2CH LVDS/ eDP<br>1 x USB Type C Support DP<br>Supports Four Display                                           | Intel® Iris® Xe/ UHD Graphics (Dependent on CPU)<br>1 x HDMI, 1 x DP++, 1 x 2CH LVDS/ eDP,<br>1 x USB Type C Support DP<br>Supports Four Display                | Intel® 11th Up3 SoC Processor Integrated<br>2 x DP++, 1 x 2CH LVDS, 1 x eDP<br>Supports Four Display                      |
| Resolution        | HDMI: 4096 x 2160 @ 60Hz<br>DP: 7680 x 4320 @ 60Hz<br>LVDS: 1920 x 1080 @ 60Hz or eDP 1920 x 1080 @ 60Hz 2 Lanes<br>USB Type C Support DP: 4096 x 2160 @ 60Hz | HDMI: 4096 x 2160 @ 60Hz<br>DP++: 4096 x 2304 @ 60Hz<br>LVDS: 1920 x 1080 @ 60Hz or eDP 1920 x 1080 @ 60Hz 2 Lanes<br>USB Type C Support DP: 4096 x 2304 @ 60Hz | 2 x DP++: 4096 x 2304 @ 60Hz<br>Dual Channel 18/24bits LVDS Max. Resolution 1920 x 1080 @ 60Hz<br>eDP: 4096 x 2160 @ 60Hz |
| Audio Chipset     | Realtek Audio Codec<br>Mic-in, Line-in, Line-out<br>2 x 2W Audio Amplifier                                                                                    | Realtek Audio Codec<br>Mic-in, Line-in, Line-out<br>2 x 2W Audio Amplifier                                                                                      | Realtek Audio Codec<br>Mic-in, Line-in, Line-out<br>2 x 2W Audio Amplifier                                                |
| Ethernet Chipset  | 1 x Intel® I226V<br>1 x Intel® I226LM                                                                                                                         | 2 x Intel® I226LM/ IIT                                                                                                                                          | 3 x Intel® I226LM/IIT                                                                                                     |
| Power Requirement | +12V ~ +24V                                                                                                                                                   | +9V ~ 36V or USB Type C Adapter (20V) Note: DCIN & USB Type C Adapter Can Only Use Either One.                                                                  | +12V ~ +24V                                                                                                               |
| Power Type        | AT/ ATX                                                                                                                                                       | AT/ ATX                                                                                                                                                         | AT/ ATX                                                                                                                   |
| Operating Temp.   | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                                     | 0°C ~ 60°C (32°F ~ 140°F)<br>-40°C ~ 70°C (-40°F ~ 158°F) for Wide Temperature CPU SKU                                                                          | 0°C ~ 60°C (32°F ~ 140°F)<br>-20°C ~ 60°C (-4°F ~ 140°F) for Wide Temperature CPU SKU                                     |
| Dimension (L x W) | 5.7" x 4" (146 x 101 mm)                                                                                                                                      | 5.7" x 4" (146 x 101 mm)                                                                                                                                        | 5.7" x 4" (146 x 101 mm)                                                                                                  |

3.5" SBC



| ECM-TGUC                                                                                                         | ECM-ADLS                                                                                                               | ECM-CFS                                                                                                                                                                                    | ECM-ASL                                                                                                  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Onboard BGA 11th Gen. Intel® Core™ Processors U-series i5/ i3                                                    | Intel® LGA1700 Socket Supports 12th Gen Intel® Core™ i9/ i7/ i5/ i3/ Pentium®/ Celeron® Processors, up to 35W Max      | 8/ 9th Gen Intel® Core™ i7/ i5/ i3/ Celeron® rPGA Processor                                                                                                                                | Onboard Intel® Processor N97, Intel® Core™ i3-N305 Processor, and Intel Atom® x7000RE Series Processors  |
| N/A                                                                                                              | Intel® R680E/ Q670E/ H610E Chipset                                                                                     | Intel® Q370/ H310 Express Chipset                                                                                                                                                          | N/A                                                                                                      |
| 1 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 32GB (Non ECC Supported)                                         | 1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 32GB                                                                   | 1 x 260-Pin DDR4 2400MHz SO-DIMM Supports up to 32GB                                                                                                                                       | 1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 16GB                                                     |
| H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                                    | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                                          | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                                                                                                              | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                            |
| 1 x M.2 (2242) B-Key<br>1 x M.2 (2230) E-Key<br>1 x M.2 (2280) M-Key                                             | 1 x M.2 (2230) E-Key                                                                                                   | 1 x Mini PCIe Supports mSATA (Q370 Support mPCIe/ mSATA/ USB2.0 Device, H310 Support mSATA/ USB 2.0 Device)                                                                                | 1 x M.2 (2242) B-Key<br>1 x M.2 (2230) E-Key                                                             |
| 1 x M.2 (2242) B-Key<br>1 x M.2 (2280) M-Key<br>1 x SATA III                                                     | 1 x M.2 (2280) M-Key                                                                                                   | 1 x mSATA Supported from Mini PCIe                                                                                                                                                         | 1 x M.2 (2242) B-Key<br>1 x SATA III                                                                     |
| 5 x USB 2.0, 3 x USB 3.2<br>1 x SATA III, 5 x RS-232<br>1 x RS-232/422/485<br>1 x 8bit GPIO, 1 x SPI, 1 x e-SPI  | 4 x USB 2.0, 4 x USB 3.2 (H610E USB 3.2 Support Gen 1 Only)<br>2 x RS-232/422/485<br>1 x 8bit GPIO, 1 x SPI, 1 x e-SPI | 2 x USB 2.0, 4 x USB 3.1<br>2 x SATA III, 2 x RS-232<br>1 x 8bit GPIO, 1 x LPC<br>1 x SPI                                                                                                  | 4 x USB 2.0, 3 x USB 3.2<br>1 x SATA III, 3x RS-232<br>1 x RS-232/422/485<br>1 x 8bit GPIO, 1 x e-SPI    |
| Intel® 11th Up3 SoC Processor Integrated<br>2 x DP++, 1 x 2CH LVDS/eDP (Default LVDS)<br>Supports Triple Display | Intel® 12th Gen. CPU Integrated<br>HDMI, DP++, 1 x 2CH LVDS/ eDP<br>Supports Triple Display                            | Intel® UHD Graphics 630<br>Intel® UHD Graphics 610<br>H310 Only Support Dual Display: LVDS + HDMI 1(Default LVDS Enable) or HDMI 1 + HDMI 2 (LVDS Disabled)<br>Q370 Support Triple Display | Integrated Intel® UHD Graphics<br>1 x HDMI, 1 x DP, 1 x 2CH LVDS/eDP<br>Supports Triple Display          |
| 2 x DP++: 4096 x 2304 @ 60Hz<br>Dual Channel 18/24bits LVDS: 1920 x 1080 @ 60Hz<br>eDP: 4096 x 2160 @ 60Hz       | HDMI: 4096 x 2304 @ 60Hz<br>DP++: 4096 x 2304 @ 60Hz<br>LVDS: 1920 x 1080 @ 60Hz or eDP 1920 x 1080 @ 60Hz 2 Lanes     | Dual HDMI: 4096 x 2304 @ 30Hz<br>LVDS: 1920 x 1080 @ 60Hz                                                                                                                                  | HDMI: 4096 x 2160 @60Hz<br>DP: 4096 x 2160 @ 60Hz<br>LVDS: 1920 x 1080 @ 60Hz<br>eDP: 4096 x 2160 @ 60Hz |
| Realtek Audio Codec<br>Mic-in, Line-in, Line-out<br>2 x 2W Audio Amplifier                                       | Realtek Audio Codec<br>Mic-in, Line-in, Line-out                                                                       | Realtek Audio Codec<br>Mic-in, Line-in, Line-out                                                                                                                                           | Realtek Audio Codec<br>Mic-In, Line-In, Line-Out                                                         |
| 1 x Intel® I225V<br>1 x Intel® I219LM                                                                            | 2 x Intel® i226LM                                                                                                      | 1 x Intel® I210AT<br>1 x Intel® I219LM                                                                                                                                                     | 2 x Intel® I226V/IIT                                                                                     |
| +12V ~ +24V                                                                                                      | +12V                                                                                                                   | +12V                                                                                                                                                                                       | +9V ~ +36V                                                                                               |
| AT/ ATX                                                                                                          | AT/ ATX                                                                                                                | AT/ ATX                                                                                                                                                                                    | AT/ ATX                                                                                                  |
| 0°C ~ 60°C (32°F ~ 140°F)                                                                                        | 0°C ~ 60°C (32°F ~ 140°F)                                                                                              | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                                                                  | 0°C ~ 60°C (32°F ~ 140°F)<br>-40°C ~ 80°C (-40°F ~ 176°F) for Wide Temperature CPU SKU                   |
| 5.7" x 4" (146 x 101 mm)                                                                                         | 5.7" x 4" (146 x 101 mm)                                                                                               | 5.7" x 4" (146 x 101 mm)                                                                                                                                                                   | 5.7" x 4" (146 x 101 mm)                                                                                 |

3.5" SBC



| Model Number      | ECM-EHL3                                                                                                                   | ECM-EHL                                                                                                 | ECM-APL                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | Onboard Intel® Pentium®/Celeron®/ Atom™ SoC BGA Processor (with CPU Bottom Mounted)                                        | Onboard Intel® Pentium®/Celeron®/ Atom™ SoC BGA Processor (with CPU Bottom Mounted)                     | Intel® Pentium®/ Celeron®/ Atom™ SoC Processor                                                                                           |
| System Chipset    | N/A                                                                                                                        | N/A                                                                                                     | N/A                                                                                                                                      |
| System Memory     | 1 x 260-pin DDR4 3200MHz SODIMM, Supports up to 32GB (Non ECC Supported)                                                   | 1 x 260-pin DDR4 3200MHz SODIMM, Supports up to 32GB (Non ECC Supported)                                | 1 x 204-pin DDR3L 1600 & 1333MHz SO-DIMM Supports up to 8 GB SDRAM (Non-ECC)                                                             |
| Watchdog Timer    | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                                              | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                           | H/W Reset, 1 sec. ~ 65535 sec. and 1 sec./step or 1 min./step                                                                            |
| Expansion         | 1 x M.2 (2242) B-Key<br>1 x M.2 (2230) E-Key<br>1 x M.2 (2260 for 2242) M-Key                                              | 1 x M.2 (2242) B-Key<br>1 x M.2 (2230) E-Key                                                            | 1 x Mini PCIe (for PCIe & USB2.0)<br>1 x M.2 (2242) B-Key                                                                                |
| Storage           | 1 x M.2 (2242) B-Key<br>1 x M.2 (2260 for 2242) M-Key<br>1 x SATA III                                                      | 1 x M.2 (2242) B-Key<br>1 x SATA III                                                                    | 1 x M.2 (M.2 support SATA or PCIe x1/ USB)                                                                                               |
| I/O               | 6 x USB 2.0, 2 x USB 3.1 Gen2<br>1 x SATA III, 4 x RS-232<br>2 x RS-232/422/485<br>1 x 8bit GPIO, 1 x e-SPI, 1 x SPI       | 4 x USB 2.0, 2 x USB 3.1 Gen2<br>1 x SATA III, 3 x RS-232<br>1 x RS-422/485<br>1 x 8bit GPIO, 1 x e-SPI | 1 x USB 2.0, 4 x USB 3.0<br>1 x SATA III, 5 x RS-232<br>1 x RS-232/422/485<br>1 x Micro SIM Card Slot<br>1 x 8bit GPIO, 1 x LPC, 1 x SPI |
| Display Chipset   | Intel® UHD Graphics for 10th Gen Intel® Processors<br>2x DP++, 1 x 2CH LVDS/ eDP (Default LVDS)<br>Supports Triple Display | Intel® UHD Graphics for 10th Gen Intel® Processors<br>HDMI, DP, eDP<br>Supports Triple Display          | Intel® HD Graphics 500<br>Supports Triple Display                                                                                        |
| Resolution        | 2 x DP++: 4096 x 2304 @ 60Hz<br>Dual Channel 18/ 24bits LVDS: 1920 x 1080 @ 60Hz<br>eDP: 4096 x 2160 @ 60Hz                | HDMI: 4096 x 2160 @ 24Hz<br>DP: 4096 x 2160 @ 60Hz<br>eDP: 4096 x 2160 @ 60Hz                           | Dual HDMI: 3840 x 2160 @ 30Hz<br>LVDS: 1920 x 1080 @ 60Hz                                                                                |
| Audio Chipset     | Realtek Audio Codec<br>Mic-in, Line-in, Line-out<br>2 x 2W Audio Amplifier                                                 | Realtek Audio Codec<br>Mic-in, Line-in, Line-out                                                        | Realtek Audio Codec<br>Mic-in, Line-in, Line-out                                                                                         |
| Ethernet Chipset  | 1 x Intel® I226LM<br>2 x Intel® I210AT                                                                                     | 2 x Intel® I226LM/ IT                                                                                   | 2 x Intel® I210AT                                                                                                                        |
| Power Requirement | +9V ~ +36V                                                                                                                 | +9V ~ +36V                                                                                              | +12V ~ +24V                                                                                                                              |
| Power Type        | AT/ ATX                                                                                                                    | AT/ ATX                                                                                                 | AT/ ATX                                                                                                                                  |
| Operating Temp.   | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                  | 0°C ~ 60°C (32°F ~ 140°F)<br>-40°C ~ 85°C (-40°F ~ 185°F) for Wide Temperature CPU SKU                  | 0°C ~ 60°C (32°F ~ 140°F)<br>-40°C ~ 85°C (-40°F ~ 185°F)<br>(Optional for Wide Temperature)                                             |
| Dimension (L x W) | 5.7" x 4" (146 x 101 mm)                                                                                                   | 5.7" x 4" (146 x 101 mm)                                                                                | 5.7" x 4" (146 x 101 mm)                                                                                                                 |

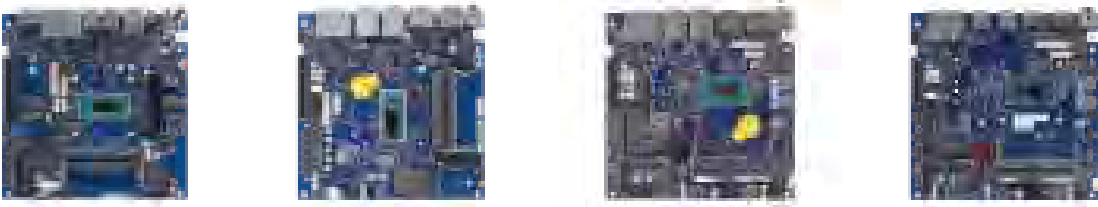
Mini-ITX



| Model Number        | EMX-W880P                                                                                                                                                       | EMX-R680P                                                                                                               | EMX-C246P                                                                                                                                              |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor           | LGA1851 Socket Supports Core™ Ultra Processors                                                                                                                  | LGA1700 Socket Supports 12/ 13th Gen. Intel® Core™ i9/ i7/ i5/ i3/ Pentium®/ Celeron® Processors                        | LGA1151 Socket Supports 8/ 9th Gen. Intel® Core™ i7/ i5/ i3/ Pentium®/ Celeron® Processors                                                             |
| System Chipset      | Intel® W880 Chipsets                                                                                                                                            | Intel® R680E Chipsets                                                                                                   | Intel® C246 Chipset                                                                                                                                    |
| System Memory       | 2 x 262-pin DDR5 6400MHz SO-DIMM Supports up to 64GB                                                                                                            | 2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64GB                                                                    | 2 x 260-pin DDR4 2400/2666MHz SO-DIMM Supports up to 64GB (ECC Memory Supported by CPU)                                                                |
| Expansion           | 1 x PCI-e x16<br>2 x M.2 M-Key<br>1 x M.2 E-Key                                                                                                                 | 1 x PCI-e x16<br>1 x M.2 M-Key<br>1 x M.2 E-Key                                                                         | 1 x PCI-e x16<br>1 x M.2 M-Key<br>1 x M.2 E-Key                                                                                                        |
| Display             | Intel® Xe LPG Graphics Architecture CPU Integrated<br>1 x HDMI, 2 x DP (1 from Type C), LVDS/ eDP                                                               | Intel® 12/13th Gen. CPU Integrated<br>1 x HDMI, 2 x DP++, eDP, LVDS                                                     | Intel® 8/ 9th Gen. CPU Integrated<br>VGA + HDMI + LVDS<br>VGA + HDMI + HDMI                                                                            |
| Resolution          | DP 2.1: 7680 x 4320 @ 60Hz<br>USB4 Type C at I/O with DP-alt Mode<br>HDMI 2.1: 8K @ 60Hz<br>Dual Channel 18/24bits LVDS: 1920 x 1080 or eDP: 1920 x 1080 @ 60Hz | HDMI 2.1b: 8K @ 60Hz<br>DP++: 4096 x 2160 @ 60Hz<br>Dual Channel 18/24bits LVDS: 1920 x 1080<br>eDP: 1920 x 1080 @ 60Hz | VGA: 2048 x 1536 @ 60Hz<br>HDMI: 3840 x 2160 @ 30Hz<br>2560 x 1600 @ 30Hz<br>Dual Channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS) by BOM Option |
| Audio               | Realtek Audio Codec<br>Mic-in, Line-out<br>2 x 3W Audio Amplifier                                                                                               | Realtek Audio Codec<br>Mic-in, Line-out<br>2 x 2W Audio Amplifier                                                       | Realtek Audio Code<br>6W Audio Amplifier                                                                                                               |
| Ethernet            | 1 x Intel® I210AT<br>1 x Intel® I226LM<br>2 x Intel® I226V                                                                                                      | 4 x Intel® I219LM                                                                                                       | 1 x Intel® I219LM<br>3 x Intel® I210AT                                                                                                                 |
| USB/ SATA/ COM/ LAN | 12/ 2/ 5/ 4                                                                                                                                                     | 12/ 2/ 5/ 4                                                                                                             | 13/ 4/ 6/ 4                                                                                                                                            |
| Power Requirement   | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                                                                                    | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                                            | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                                                                           |
| Power Type          | AT/ ATX                                                                                                                                                         | AT/ ATX                                                                                                                 | AT/ ATX                                                                                                                                                |
| Operating Temp.     | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                                       | 0°C ~ 55°C (32°F ~ 131°F)                                                                                               | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                              |
| Dimension (L x W)   | 6.69" x 6.69"<br>(170 x 170 mm)                                                                                                                                 | 6.69" x 6.69"<br>(170 x 170 mm)                                                                                         | 6.69" x 6.69"<br>(170 x 170 mm)                                                                                                                        |
| Weight              | 0.88 lbs (0.4 kg)                                                                                                                                               | 0.88 lbs (0.4 kg)                                                                                                       | 0.88 lbs (0.4 kg)                                                                                                                                      |

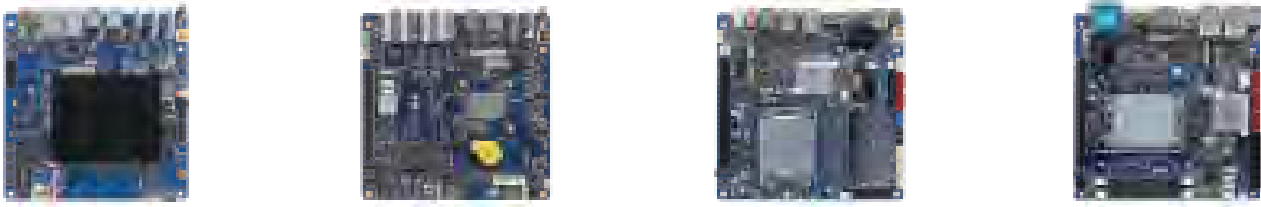


Mini-ITX



| Model Number        | EMX-MTLP                                                                                                                                                                             | EMX-RPLP                                                                                                                                                                                  | EMX-TGLP                                                                                                                                                         | EMX-TGLC                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Processor           | Onboard Intel® Core™ Ultra 7/ Ultra 5 BGA Processor, Supports TDP 15/28W                                                                                                             | Onboard BGA 13th Gen. Intel® Core™ Processors P-series                                                                                                                                    | Onboard BGA 11th Gen. Intel® Core™ Processors U-series                                                                                                           | Onboard BGA 11th Gen. Intel® Core™ Processors U-series & Celeron®                                                           |
| System Chipset      | N/A                                                                                                                                                                                  | N/A                                                                                                                                                                                       | N/A                                                                                                                                                              | N/A                                                                                                                         |
| System Memory       | 2 x 262-pin DDR5 5600MHz SO-DIMM Supports up to 96GB (Depending on Selected Memory Module)                                                                                           | 2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64GB                                                                                                                                      | 2 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 64GB                                                                                                             | 2 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 64GB                                                                        |
| Expansion           | 1 x M.2 B-Key<br>1 x M.2 E-Key<br>2 x M.2 M-Key                                                                                                                                      | 1 x M.2 B-Key<br>1 x M.2 E-Key                                                                                                                                                            | 1 x M.2 B-Key<br>1 x M.2 E-Key                                                                                                                                   | 1 x PCI-e x4<br>1 x M.2 B-Key<br>1 x M.2 E-Key                                                                              |
| Display             | Intel® Xe LPG Graphics<br>2 x HDMI, 2 x DP (1 via Type C),<br>1 x LVDS, 1 x eDP<br>(Maximum: 6 for Quadruple Independent Displays)                                                   | Intel® Iris® Xe/ UHD Graphics (Dependent on CPU)<br>2 x DP++, 2 x DP, eDP, LVDS (Maximum: 6 for Quadruple Independent Displays)                                                           | Intel® 11th Up3 SoC Processor Integrated<br>2 x DP++, 2 x DP, eDP, LVDS (Maximum: 6 for Quadruple Independent Displays)                                          | Intel® 11th Up3 SoC Processor Integrated<br>2 x DP++, eDP, LVDS<br>Triple Display                                           |
| Resolution          | 2 x HDMI 2.0: 3840 x 2160 @ 60Hz<br>1 x DP1.4a: Max: 7680 x 4320 @ 60Hz<br>1 x USB Type C SUPPORT dp 1.4a: 4096 x 2160 @ 60Hz<br>Dual Channel 18/24bits LVDS eDP: 3840 x 2169 @ 60Hz | 2 x DP++ (DP1+DP2): 1920 x 1080 @ 60Hz<br>2 x DP (DP3+DP4): 5120 x 3200 @ 60 Hz<br>(2 x DP++, 2 x DP, eDP, LVDS)<br>Dual Channel 18/24bits LVDS: 1920 x 1080Hz<br>eDP: 3840 x 2169 @ 60Hz | 2 x DP++: 4096 x 2304 @ 60Hz<br>DP: 4096 x 2304 @ 60Hz<br>(2 x DP++, 2 x DP, eDP, LVDS)<br>Dual Channel 18/24bits LVDS: 1920 x 1080Hz<br>eDP: 4096 x 2304 @ 60Hz | 2 x DP++: 4096 x 2304 @ 60Hz (2 x DP++, eDP, LVDS)<br>Dual Channel 18/24bits LVDS: 1920 x 1080Hz<br>eDP: 4096 x 2304 @ 60Hz |
| Audio               | Realtek Audio Codec<br>Mic-in, Line-out<br>2 x 6W Audio Amplifier                                                                                                                    | Realtek Audio Codec<br>Mic-in, Line-out<br>2 x 6W Audio Amplifier                                                                                                                         | Realtek Audio Codec<br>Mic-in, Line-out<br>2 x 6W Audio Amplifier                                                                                                | Realtek Audio Codec<br>Mic-in, Line-out<br>2 x 6W Audio Amplifier                                                           |
| Ethernet            | 1 x Intel® I226LM<br>1 x Intel® I226V                                                                                                                                                | 3 x Intel® I226LM/IT<br>1 x Intel® I219LM                                                                                                                                                 | 1 x Intel® I226LM/IT<br>1 x Intel® I219LM<br>2 x Intel® I210AT                                                                                                   | 1 x Intel® I226LM<br>1 x Intel® I219LM                                                                                      |
| USB/ SATA/ COM/ LAN | 11/ 2/ 6/ 2                                                                                                                                                                          | 8/ 2/ 6/ 4                                                                                                                                                                                | 8/ 2/ 6/ 4                                                                                                                                                       | 8/ 2/ 6/ 2                                                                                                                  |
| Power Requirement   | +12V ~ 24V                                                                                                                                                                           | +12V ~ 24V                                                                                                                                                                                | +12V ~ 24V                                                                                                                                                       | +12V ~ 24V                                                                                                                  |
| Power Type          | DC-in                                                                                                                                                                                | AT/ ATX                                                                                                                                                                                   | AT/ ATX                                                                                                                                                          | AT/ ATX                                                                                                                     |
| Operating Temp.     | 0°C ~ 60°C (32°F ~ 140°F)<br>-20°C ~ 60°C (-4°F ~ 140°F) for Wide Temperature CPU SKU                                                                                                | 0°C ~ 60°C (32°F ~ 140°F)<br>-20°C ~ 60°C (-4°F ~ 140°F) for Wide Temperature CPU SKU                                                                                                     | 0°C ~ 60°C (32°F ~ 140°F)<br>-20°C ~ 60°C (-4°F ~ 140°F) for Wide Temperature CPU SKU                                                                            | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                   |
| Dimension (L x W)   | 6.69" x 6.69"<br>(170 x 170 mm)                                                                                                                                                      | 6.69" x 6.69"<br>(170 x 170 mm)                                                                                                                                                           | 6.69" x 6.69"<br>(170 x 170 mm)                                                                                                                                  | 6.69" x 6.69"<br>(170 x 170 mm)                                                                                             |
| Weight              | 0.88 lbs. (0.4 kg)                                                                                                                                                                   | 0.88 lbs. (0.4 kg)                                                                                                                                                                        | 0.88 lbs. (0.4 kg)                                                                                                                                               | 0.88 lbs. (0.4 kg)                                                                                                          |

Mini-ITX



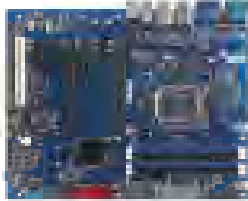
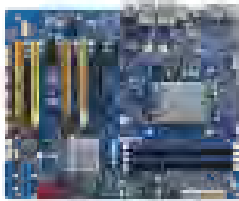
| EMX-ASLP                                                                                                                                                                        | EMX-EHLP                                                                                                                                        | MX610HD                                                                                                | MX610H                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Onboard BGA Intel® Processor N97, Intel® Core™ i3-N305 & Intel® Atom® x7000RE Series Processors                                                                                 | Intel® Pentium®/ Celeron®/ Atom™ SoC Processor                                                                                                  | LGA1700 Socket Supports 12/ 13/14th Gen. Intel® Core™ i9/ i7/ i5/ i3/ Pentium®/ Celeron® Processors    | LGA1700 Socket Supports 12/ 13/14th Gen. Intel® Core™ i9/ i7/ i5/ i3/ Pentium®/ Celeron® Processors     |
| N/A                                                                                                                                                                             | N/A                                                                                                                                             | Intel® H610E Chipset                                                                                   | Intel® H610E Chipset                                                                                    |
| 1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 16GB                                                                                                                            | 1 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 32GB (Only Atom® x6000 Series Processors Support IB ECC)                                        | 2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64GB                                                   | 2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64G                                                     |
| 1 x M.2 B-Key<br>1 x M.2 E-Key<br>1 x M.2 M-Key                                                                                                                                 | 1 x M.2 B-Key<br>1 x M.2 E-Key                                                                                                                  | 1 x PCI-e x16<br>1 x M.2 M-Key<br>1 x M.2 E-Key                                                        | 1 x PCI-e x16<br>1 x M.2 M-Key<br>1 x M.2 E-Key                                                         |
| Intel® UHD Graphics Integrated<br>1 x HDMI, 1 x DP, 1 x DP++, eDP, LVDS<br>Triple Display                                                                                       | Intel® UHD Graphics for 10th Gen Intel® Processors<br>Triple Display<br>DP++, HDMI, LVDS (eDP by BOM Option)                                    | Intel® Integrated UHD Graphic with Xe Architecture (CPU Dependent)<br>HDMI + DP + LVDS                 | Intel® Integrated UHD Graphic with Xe Architecture (CPU Dependent)<br>HDMI, DP++, LVDS                  |
| 1 x HDMI 2.0b: 4096 x 2160 @ 60Hz<br>1 x DP: 4096 x 2160 @ 60Hz<br>1 x DP++: 1920 x 1080 @ 60Hz<br>Dual Channel 18/24bits LVDS: 1920 x 1080Hz<br>Co-lay eDP: 1920 x 1080 @ 60Hz | HDMI 2.0b: 4096 x 2160 @ 60Hz<br>DP++: 4096 x 2160 @ 60Hz<br>Dual Channel 18/24bits LVDS: 1920 x 1080<br>eDP: 4096 x 2160 @ 60Hz (BOM Optional) | HDMI: 3840 x 2160 @ 30Hz<br>DP: 4096 x 2304 @ 60Hz<br>Dual Channel 18/24-bits LVDS: 1920 x 1080 @ 60Hz | HDMI: 3840 x 2160 @ 30Hz<br>DP: 4096 x 2304 @ 60Hz<br>Dual Channel 18/24-bits LVDS: 1920 x 1080 @ 60 Hz |
| Realtek Audio Codec<br>Mic-in, Line-out<br>2 x 2W Audio Amplifier                                                                                                               | Realtek Audio Code<br>Mic-in, Line-out<br>2 x 6W Audio Amplifier                                                                                | Realtek Audio Code<br>3W Audio Amplifier                                                               | Realtek Audio Code<br>3W Audio Amplifier                                                                |
| 1 x Intel® I226V or 1 x Intel® I226IT                                                                                                                                           | 4 x Intel® i226LM/IT                                                                                                                            | 1 x Intel® I219V<br>1 x Intel® I225LM                                                                  | 1 x Intel® I219LM<br>1 x Intel® I225V                                                                   |
| 9/ 1/ 6/ 2                                                                                                                                                                      | 8/ 2/ 6/ 4                                                                                                                                      | 8/ 2/ 3/ 2                                                                                             | 10/ 3/ 4/ 2                                                                                             |
| +12V ~ 24V                                                                                                                                                                      | +12V ~ 24V                                                                                                                                      | +12V ~ 24V                                                                                             | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                            |
| AT/ ATX                                                                                                                                                                         | AT/ ATX                                                                                                                                         | AT/ ATX                                                                                                | AT/ ATX                                                                                                 |
| 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                                                       | 0°C ~ 60°C (32°F ~ 140°F)<br>-20°C ~ 60°C (-8°F ~ 140°F) for Wide Temperature CPU SKU                                                           | 0°C ~ 60°C (32°F ~ 140°F)                                                                              | 0°C ~ 60°C (32°F ~ 140°F)                                                                               |
| 6.69" x 6.69"<br>(170 x 170 mm)                                                                                                                                                 | 6.69" x 6.69"<br>(170 x 170 mm)                                                                                                                 | 6.69" x 6.69"<br>(170 x 170 mm)                                                                        | 6.69" x 6.69"<br>(170 x 170 mm)                                                                         |
| 0.53 lbs (0.24 kg)                                                                                                                                                              | 0.88 lbs (0.4 kg)                                                                                                                               | 0.88 lbs (0.4 kg)                                                                                      | 0.88 lbs (0.4 kg)                                                                                       |

Micro-ATX



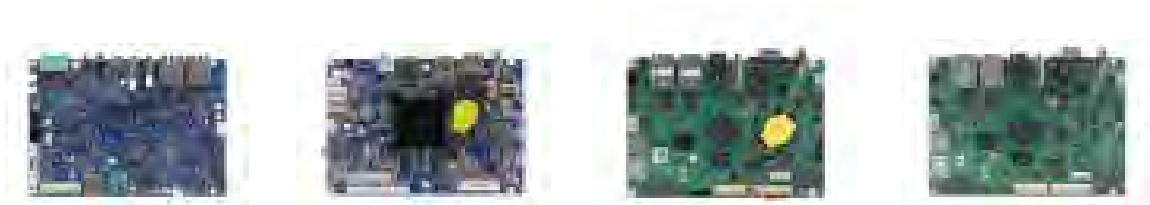
| Model Number        | RX680R                                                                                                                | ERX-W480P                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Processor           | Intel® LGA1700 Socket Supports 12/13/14th Gen. Intel® Core™ i9/i7/i5/i3/ Pentium®/ Celeron® Processors, up to 65W Max | Intel® LGA1200 Socket Supports 10th Gen. Intel® Xeon® (Workstation)/ Core™, Pentium®/ Celeron® Processors (Max. TDP at 95W)       |
| System Chipset      | Intel® R680E Chipsets                                                                                                 | Intel® W480E Chipset                                                                                                              |
| System Memory       | 4 x DIMM up to 128GB Max Dual Channel DDR5 4400 MHz with ECC Support (ECC Memory Supported by CPU)                    | 4 x 288-pin DDR4 2400 ~ 2933MHz DIMM Supports up to 128GB (ECC Memory Supported by CPU)                                           |
| Expansion           | 1 x Gen 5 PCIe x16<br>2 x Gen 4 PCIe x4<br>1 x Gen 3 PCIe x4 Open Ended                                               | 2 x PCI-e x16 (1 x PCI-e x16 or 2 x PCIe-x8), 2 x PCI-e x4                                                                        |
| Display             | Intel® 12/13th Gen. CPU Integrated DP++/ LVDS<br>Four Independent Displays                                            | Intel® 10th Gen. CPU Integrated VGA/ HDMI/DP++ / LVDS<br>Triple Display                                                           |
| Resolution          | 4 x DP (1.4a): Max Resolution 4K @ 60Hz<br>LVDS: 1920 x 1080Hz Dual Channel 18/24-bits                                | VGA: 2048 x 1536 @ 60Hz<br>HDMI 2.0a: 4096 x 2304 @ 60Hz<br>DP++: 4096 x 2304 @ 60Hz<br>LVDS: 1920 x 1080 Dual Channel 18/24-bits |
| Audio               | Realtek Audio Code<br>Mic-in, Line-out<br>3W Amplifier                                                                | Realtek Audio Code<br>Line-in, Mic-in, Line-out<br>6W Amplifier                                                                   |
| Ethernet            | 2 x Intel® i225-LM                                                                                                    | 1 x Intel® i219LM<br>1 x Intel® i210AT<br>2 x Intel® i225LM                                                                       |
| USB/ SATA/ COM/ LAN | 17/ 4/ 6/ 2                                                                                                           | 14/ 4/ 6/ 4                                                                                                                       |
| Power Requirement   | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                                          | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                                                      |
| Power Type          | AT/ ATX                                                                                                               | AT/ ATX                                                                                                                           |
| Operating Temp.     | 0°C ~ 60°C (32°F ~ 140°F)                                                                                             | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                         |
| Dimension (L x W)   | 9.6" x 9.6"<br>(243.84 x 243.84 mm)                                                                                   | 9.6" x 9.6"<br>(243.84 x 243.84 mm)                                                                                               |
| Weight              | 1.45 lbs (0.66 kg)                                                                                                    | 1.35 lbs (0.6 kg)                                                                                                                 |

ATX



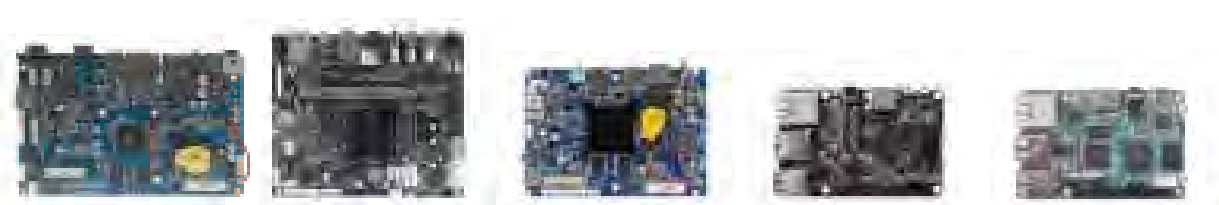
| BC680R                                                                                                                | EAX-R680FP                                                                                                                                                   | EAX-W480P                                                                                                 | EAX-C246P                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Intel® LGA1700 Socket Supports 12/13/14th Gen. Intel® Core™ i9/i7/i5/i3/ Pentium®/ Celeron® Processors, up to 65W Max | 12/13/14th Gen. Intel® Core™ i9/i7/i5/i3 Processors, Supports LGA 1700 CPU up to 125W Max                                                                    | Intel® LGA1200 Socket Supports 10th Gen. Intel® Xeon® (Workstation)/ Core™, Pentium®/ Celeron® Processors | Intel® LGA1151 Socket Supports 8/9th Gen. Intel® Xeon® (Workstation)/Core™, Pentium®/ Celeron® Processors   |
| Intel® R680E Chipset                                                                                                  | Intel® R680E Chipset                                                                                                                                         | Intel® W480E Chipset                                                                                      | Intel® C246 Chipset                                                                                         |
| 4 x DIMM up to 128GB Max Dual Channel DDR5 4400MHz with ECC Support (ECC Memory Supported by CPU)                     | 4 x 288-Pin DDR4 3200MHz U-DIMM Socket Supports Up to 128GB (ECC Memory Support by CPU)                                                                      | 4 x 288-pin DDR4 400~2933MHz DIMM Supports up to 128GB (ECC Memory Supported by CPU)                      | 4 x 288-pin DDR4 400/2666MHz DIMM Supports up to 128GB (ECC Memory Supported by CPU)                        |
| 1 x Gen 5 PCIe x16<br>2 x Gen 4 PCIe x4<br>1 x Gen 3 PCIe x4<br>1 x Gen 3 PCIe x1<br>2 x Gen 3 PCIe x1 Open Ended     | 2 x PCIe x16 Slots for 1 x PCIe x16 (Gen5) Default or 2 x PCIe x8 (Gen5)<br>2 x PCIe x4 Gen4<br>1 x PCIe x4 Gen3<br>1 x PCIe x4 slot for 1 x PCIe x2 (Gen3)  | 1 x PCI-e x16 or 2 x PCI-e x8<br>4 x PCI-e x4                                                             | 1 x PCI, 1 x PCI-e x16 or 2 x PCI-e x8 by BOM<br>1 x PCI-e x4, 3 x PCI-e x1<br>1 x M.2 M-Key, 1 x M.2 A-Key |
| Intel® 12/13th Gen. CPU Integrated DP++/ HDMI<br>Four Independent Displays                                            | Intel® 12th/13/14th Generation CPU Integrated DP++/ HDMI<br>Triple Display                                                                                   | Intel® 10th Gen. CPU Integrated DVI-D + DP++ + DP++                                                       | Intel® 8/ 9th Gen. CPU Integrated VGA + HDMI + DP                                                           |
| 2 x DP (1.4a): Max Resolution 4K @ 60Hz)<br>2 x HDMI (2.0b): 4K @ 60Hz                                                | 2 x DP (DP1.4a): Max (Combined): 7680 x 4320 @ 60Hz (DP++ Via dongle: 1920 x 1080 @ 60 Hz)<br>1 x HDMI (HDMI 2.0b): Max Resolution 4K x 2K @ 60Hz (With HDR) | DVI-D: 2048 x 1536 @ 60Hz<br>DP++: 3840 x 2160 @ 60Hz                                                     | VGA: 2048 x 1536 @ 60Hz<br>HDMI: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz<br>DP: 4096 x 2304 @ 60Hz           |
| Realtek Audio Code<br>Mic-in, Line-out<br>6W Amplifier                                                                | Realtek Audio Code<br>Mic-in, Line-out<br>6W 8Ω Amplifier                                                                                                    | N/A                                                                                                       | Realtek Audio Code<br>Mic-in, Line-in, Line-out<br>1 x 6W Audio Amplifier                                   |
| 2 x Intel® i225-LM                                                                                                    | 2 x Intel® i225LM                                                                                                                                            | 1 x Intel® i225V<br>1 x Intel® i219LM<br>1 x Intel® i210AT                                                | 1 x Intel® i219LM<br>1 x Intel® i210AT                                                                      |
| 17/ 4/ 6/ 2                                                                                                           | 14/ 4/ 6/ 2                                                                                                                                                  | 12/ 4/ 10/ 3                                                                                              | 14/ 6/ 10/ 2                                                                                                |
| +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                                          | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                                                                                 | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                              | +12V/ +5V/ 5VSB/ +3.3V/ -12V                                                                                |
| AT/ ATX                                                                                                               | AT/ ATX                                                                                                                                                      | AT/ ATX                                                                                                   | AT/ ATX                                                                                                     |
| 0°C ~ 60°C (32°F ~ 140°F)                                                                                             | 0°C ~ 55°C (32°F ~ 131°F)                                                                                                                                    | 0°C ~ 60°C (32°F ~ 140°F)                                                                                 | 0°C ~ 60°C (32°F ~ 140°F)                                                                                   |
| 12" x 9.6"<br>(304.8 x 243.84 mm)                                                                                     | 12" x 9.6"<br>(304.8mm x 243.84mm)                                                                                                                           | 12" x 9.6"<br>(304.8 x 243.84 mm)                                                                         | 12" x 9.6"<br>(304.8 x 243.84 mm)                                                                           |
| 1.85lbs (0.84 kg)                                                                                                     | 1.54lbs (0.7 kg)                                                                                                                                             | 1.32 lbs (0.6 kg)                                                                                         | 1.32 lbs (0.6 kg)                                                                                           |

ARM搭載SBC



| Model Number           | RSC-IMX8M                                                                                                                                                                                                                                                                                                                                                                                                 | RSC-IMX6I                                                                                                                                                                                                                   | RSC-3576                                                                                                                                                                                                                                  | RSC-3568J                                                                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor              | NXP i.MX8M Cortex-A53 Quad Core 1.3GHz; Cortex-M4 Core Processor                                                                                                                                                                                                                                                                                                                                          | NXP i.MX 6 Dual Lite<br>NXP i.MX 6 Quad Core                                                                                                                                                                                | Rockchip RK3576 Quad-core Cortex-A72 and Quad-core Cortex-A53                                                                                                                                                                             | Rockchip RK3568J Quad-core Cortex-A55 1.8GHz                                                                                                                                                                                                                                                                                                |
| System Memory          | 2GB DDR4 (4GB Optional)                                                                                                                                                                                                                                                                                                                                                                                   | 1GB/ 2GB DDR3                                                                                                                                                                                                               | 4GB (8G/ 16G Optional)                                                                                                                                                                                                                    | 2GB/ 4GB LPDDR4                                                                                                                                                                                                                                                                                                                             |
| Storage                | 16GB eMMC (Expandable to 64GB Max)                                                                                                                                                                                                                                                                                                                                                                        | 8GB eMMC                                                                                                                                                                                                                    | 32GB (16 ~ 128G Optional)                                                                                                                                                                                                                 | 32GB/ 64GB eMMC                                                                                                                                                                                                                                                                                                                             |
| External I/O Connector | 1 x USB 3.0 Type A<br>2 x Gigabit LAN<br>1 x HDMI 2.0 In<br>1 x USB 3.0 Type C (Data Only)<br>1 x Micro SD Slot<br>1 x Headphone Jack<br>1 x Reset<br>1 x Power LED<br>1 x DC Jack + 1 x 1x2P Connector Power Connector Type                                                                                                                                                                              | 1 x DC Jack<br>1 x HDMI 2.0 In<br>1 x Line-out<br>1 x Micro SD Slot<br>1 x Power LED<br>1 x Reset<br>2 x USB 2.0 Type A<br>1 x Jack for I/R Extender Cable, Co-design (Optional)                                            | 2 x RJ45 (10/100/1000M)<br>1 x HDMI<br>1 x USB3.0 Type A<br>1 x USB2.0 Type A<br>1 x SATA 3.0<br>1 x SATA Power<br>1 x M.2<br>1 x Speaker<br>1 x Micro Sim Slot<br>1 x Micro SD                                                           | 1 x DC Jack<br>1 x HDMI 2.0 In<br>1 x Reset<br>1 x RS232/422/485 DB9<br>1 x USB 3.0 Type A<br>1 x USB 3.0 Type A OTG<br>2 x 10/100/1000 RJ45 LAN                                                                                                                                                                                            |
| Internal I/O Connector | 1 x Front Panel<br>1 x Backlight<br>1 x TAG<br>1 x MIPI CSI<br>1 x LVDS<br>1 x I²C<br>1 x USB2.0 (1x5P Header)<br>2 x M.2 Key E Socket (For WIFI/ BT)/ M.2 Key B Socket + SIM Socket (For LTE)<br>2 x Speaker out (1x2P Header)<br>1 x Line-out<br>1 x Power LED<br>1 x RTC Battery<br>1 x SIM Card Slot<br>1 x Mic-in<br>1 x Extend Connector (for Option Expansion I/O Board (EX:RS232/ 485/ GPIO/ CAN) | 1 x Backlight<br>1 x CAN<br>1 x I²C<br>1 x Line-out<br>1 x LVDS<br>1 x Micro USB<br>1 x RS232<br>1 x RS232/422/485 Debug<br>1 x RTC Battery<br>1 x SATA<br>1 x USB 2.0<br>1 x USB 2.0 Type B OTG<br>1 x USB Touch Interface | WiFi IEEE 802.11b/g/n/ac<br>BT4.2 (Optional 5.0)<br>1 x 3G/4G LTE Mini PCIE (Optional)<br>2 x RS232<br>2 x RS485<br>1 x CAN<br>1 x GPIO<br>1 x LVDS<br>1 x eDP<br>1 x Backlight<br>2 x USB 2.0<br>1 x I²C for TP<br>1 x WiFi + BT Antenna | 1 x Backlight<br>2 x CAN<br>1 x Debug<br>1 x eDP<br>5 x GPIO<br>1 x I²C<br>1 x LVDS<br>1 x M.2 2230 E-Key<br>1 x M.2 3042 B-Key<br>1 x Micro SD Slot<br>1 x MIPI DSI<br>3 x RS232<br>1 x RS232/422/485<br>1 x RTC Battery<br>1 x SD Card Slot<br>1 x SIM Card Slot<br>1 x Speaker<br>1 x Touch Button<br>2 x USB 2.0<br>1 x 4Pin DC PHD 2.0 |
| Power Requirement      | DC 12V ~ 24V                                                                                                                                                                                                                                                                                                                                                                                              | DC 12V ~ 26V                                                                                                                                                                                                                | DC 9 ~ 24V                                                                                                                                                                                                                                | DC 12V ~ 24V                                                                                                                                                                                                                                                                                                                                |
| Operating Temperature  | -40 ~ 85°C                                                                                                                                                                                                                                                                                                                                                                                                | -20 ~ 85°C                                                                                                                                                                                                                  | -5 ~ 70°C<br>-40 ~ 85°C (optional)                                                                                                                                                                                                        | -40 ~ 85°C                                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature    | -40 ~ 85°C                                                                                                                                                                                                                                                                                                                                                                                                | -40 ~ 85°C                                                                                                                                                                                                                  | -40 ~ 85°C                                                                                                                                                                                                                                | -40 ~ 85°C                                                                                                                                                                                                                                                                                                                                  |
| Dimension (L x W)      | 146 x 102 mm                                                                                                                                                                                                                                                                                                                                                                                              | 146 x 102 mm                                                                                                                                                                                                                | 146 x 101 mm                                                                                                                                                                                                                              | 146 x 101 mm                                                                                                                                                                                                                                                                                                                                |
| Weight                 | 0.15 kg                                                                                                                                                                                                                                                                                                                                                                                                   | 0.15 kg                                                                                                                                                                                                                     | 0.16 kg                                                                                                                                                                                                                                   | 0.16 kg                                                                                                                                                                                                                                                                                                                                     |
| Certification          | CE, FCC Class B                                                                                                                                                                                                                                                                                                                                                                                           | CE, FCC Class B                                                                                                                                                                                                             | CE, FCC Class B                                                                                                                                                                                                                           | CE, FCC Class B                                                                                                                                                                                                                                                                                                                             |
| Software Support       | Android 9.0/ 10<br>Yocto 2.5                                                                                                                                                                                                                                                                                                                                                                              | Android 4.4/ 6.0<br>Yocto 2.1                                                                                                                                                                                               | Andriod/ Yocto/ Debian                                                                                                                                                                                                                    | Android 13<br>Debian 11                                                                                                                                                                                                                                                                                                                     |

ARM搭載SBC



» 2.5" SBC  
Pico-ITX

» 1.8" SBC

| Model Number           | ACP-IMX6POS                                                                                                                                                                            | ACP-3588                                                                                                                                                                                                                    | ACP-Q6490                                                                                                                                                                                                                      | ACP-3566-PI                                                                                                                              | ACP-IMX8-PI                                                                                                                         |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Processor              | NXP i.MX 6 Dual Lite<br>NXP i.MX 6 Quad Core                                                                                                                                           | RockChip RK3588 Quad-core Cortex-A76 and Quad-core Cortex-A55                                                                                                                                                               | QCS6490 Qualcomm® Kryo™ 670, 8 cores, up to 2.7 GHz, 12 TOPS (INT8)                                                                                                                                                            | RockChip RK3566 Quad-core Cortex-A55                                                                                                     | NXP i.MX8Mmini Quad Core Cortex-A53                                                                                                 |
| System Memory          | 1GB/ 2GB DDR3                                                                                                                                                                          | 4GB/ 8GB/ 16GB/ 32GB DDR4                                                                                                                                                                                                   | DDR4, 8GB (4GB to 16GB Optional)                                                                                                                                                                                               | 2 GB                                                                                                                                     | 2 GB                                                                                                                                |
| Storage                | 4GB eMMC                                                                                                                                                                               | 32 GB eMMC                                                                                                                                                                                                                  | Support UFS 3.1, Default 128 GB                                                                                                                                                                                                | 16 GB eMMC                                                                                                                               | 8 GB eMMC                                                                                                                           |
| External I/O Connector | 2 x 10/100/1000 RJ45 Powered LAN<br>1 x DC Jack<br>1 x HDMI 2.0 In<br>1 x HDMI 2.0 Out<br>1 x Micro SD Slot<br>1 x Mini USB<br>1 x RJ11<br>2 x RS232/422/485 DB9<br>2 x USB 2.0 Type A | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x HDMI 2.0 In<br>2 x HDMI 2.0 Out<br>4 x RS-232/422/485 Debug<br>3 x USB 2.0 Type A<br>1 x USB 2.0 Type C OTG<br>1 x USB 3.0 Type A                                                   | 1 x M.2 B Key 3052 Reference RM520N-GL Quectel<br>1 x Nano SIM Slot<br>1 x RJ45 (10/100/1000M)<br>2 x USB 3.1 Type A<br>3 x USB 2.0 TypeA<br>1 x USB 3 Type C (Download Only)<br>1 x HDMI 1.4<br>1 x Line-out/ Mic-in/ Speaker | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x HDMI 2.0 Out<br>2 x USB 2.0 Type B<br>1 x USB 2.0 Type B OTG<br>1 x USB 3.0 Type A<br>1 x PWR IN | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x Audio Jack TRS<br>1 x HDMI 2.0 Out<br>4 x USB 2.0 Type B<br>1 x USB 3.0 Type C<br>1 x DC in |
| Internal I/O Connector | N/A                                                                                                                                                                                    | 1 x EDP<br>2 x 20P GPIO (GPIO/ UART/ SPI/ I²C)<br>1 x LVDS<br>1 x M.2 Key M<br>1 x MIPI CSI<br>1 x MIPI DSI<br>2 x SATA<br>1 x SPDIF<br>1 x 30 pin Audio Interface<br>1 x Speaker Header<br>2 x WiFi/ BT Antenna<br>2 x I²C | WiFi 802.11ax Wifi and BT 5.2<br>1 x RS-232<br>1 x RS485<br>1 x GPIO 16-bit DIO<br>1 x I²C<br>1 x uSD3.0 Card<br>2 x MIPI-CSI2 for 4-lanes Camera, Reference to IMX577<br>1 x UART                                             | 1 x BT4.0<br>28 x GPIO<br>1 x TF Card<br>1 x WiFi 802.11 a/b/g/n/ac<br>1 x MIPI CSI<br>1 x MIPI DSI                                      | 1 x BT4.0<br>40 x GPIO<br>1 x MIPI CSI<br>1 x MIPI DSI<br>1 x USB Wifi/ BT Port                                                     |
| Power Requirement      | DC 12V ~ 24V                                                                                                                                                                           | DC 12V                                                                                                                                                                                                                      | DC 12V                                                                                                                                                                                                                         | DC 5V                                                                                                                                    | DC 5V                                                                                                                               |
| Operating Temperature  | -20 ~ 85°C                                                                                                                                                                             | -5 ~ 70°C                                                                                                                                                                                                                   | -20 ~ 70°C                                                                                                                                                                                                                     | -5 ~ 60°C                                                                                                                                | -20 ~ 85°C                                                                                                                          |
| Storage Temperature    | -40 ~ 85°C                                                                                                                                                                             | -40 ~ 85°C                                                                                                                                                                                                                  | -40 ~ 85°C                                                                                                                                                                                                                     | -40 ~ 85°C                                                                                                                               | -40 ~ 85°C                                                                                                                          |
| Dimension (L x W)      | 175 x 110 mm                                                                                                                                                                           | 150 x 125 mm                                                                                                                                                                                                                | 100 x 72 mm                                                                                                                                                                                                                    | 85 x 55 mm                                                                                                                               | 85 x 55 mm                                                                                                                          |
| Weight                 | 0.16 kg                                                                                                                                                                                | 0.16 kg                                                                                                                                                                                                                     | 0.1 kg                                                                                                                                                                                                                         | 0.16 kg                                                                                                                                  | 0.16 kg                                                                                                                             |
| Certification          | CE, FCC Class B                                                                                                                                                                        | CE, FCC, Class B                                                                                                                                                                                                            | CE, FCC Class B                                                                                                                                                                                                                | CE, FCC, Class B                                                                                                                         | CE, FCC, Class B                                                                                                                    |
| Software Support       | Android 4.4<br>Yocto 1.7                                                                                                                                                               | Andriod 11                                                                                                                                                                                                                  | Ubuntu/ Yocto/ Debian/ Andriod                                                                                                                                                                                                 | Debian 11                                                                                                                                | Yocto 4.0                                                                                                                           |



CPU リスト

Intel® デスクトップ プロセッサ

| SKUs (with Intel ARK Link)        | TDP (W) | Total Cores | Total Threads | Processor<br>Base Frequency | Performance-core<br>Base Frequency | Efficient-core<br>Base Frequency | Max Turbo<br>Frequency |  | BC680R | EAX-<br>R680FP | EAX-<br>W480P | EAX-C246P | RX680R | ERX-<br>W480P | MX610HD | MX610H | EMX-<br>W880P | EMX-<br>R680P | EMX-<br>C246P | ECM-ADLS | ECM-CFS |
|-----------------------------------|---------|-------------|---------------|-----------------------------|------------------------------------|----------------------------------|------------------------|--|--------|----------------|---------------|-----------|--------|---------------|---------|--------|---------------|---------------|---------------|----------|---------|
| Intel® Core™ i9 processor 14901KE | 125W    | 8           | 16            | -                           | 3.8GHz                             | -                                | 5.8GHz                 |  | -      | V              | -             | -         | -      | -             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i9 processor 14901E  | 65W     | 8           | 16            | -                           | 2.8GHz                             | -                                | 5.6GHz                 |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i9 processor 14901TE | 45W     | 8           | 16            | -                           | 2.3GHz                             | -                                | 5.5GHz                 |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i7 processor 14701E  | 65W     | 8           | 16            | -                           | 2.6GHz                             | -                                | 5.4GHz                 |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i7 processor 14701TE | 45W     | 8           | 16            | -                           | 2.1GHz                             | -                                | 5.2GHz                 |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i5 processor 14501E  | 65W     | 6           | 12            | -                           | 3.3GHz                             | -                                | 5.2GHz                 |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i5 processor 14501TE | 45W     | 6           | 12            | -                           | 2.2GHz                             | -                                | 5.1GHz                 |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i5 processor 14401E  | 65W     | 6           | 12            | -                           | 2.5GHz                             | -                                | 4.7GHz                 |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i5 processor 14401TE | 45W     | 6           | 12            | -                           | 2.0GHz                             | -                                | 4.5GHz                 |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i9 processor 14900K  | 125W    | 24          | 32            | -                           | 3.2GHz                             | 2.4GHz                           | 6.0GHz                 |  | -      | V              | -             | -         | -      | -             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i9 processor 14900   | 65W     | 24          | 32            | -                           | 2.0GHz                             | 1.5GHz                           | 5.8GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i9 processor 14900T  | 35W     | 24          | 32            | -                           | 1.1GHz                             | 0.8GHz                           | 5.5GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i7 processor 14700   | 65W     | 20          | 28            | -                           | 2.1GHz                             | 1.5GHz                           | 5.4GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i7 processor 14700T  | 35W     | 20          | 28            | -                           | 1.3GHz                             | 0.9GHz                           | 5.2GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i5 processor 14500   | 65W     | 14          | 20            | -                           | 2.6GHz                             | 1.9GHz                           | 5.0GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i5 processor 14500T  | 35W     | 14          | 20            | -                           | 1.7GHz                             | 1.2GHz                           | 4.8GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i5 processor 14400   | 65W     | 10          | 16            | -                           | 2.5GHz                             | 1.8GHz                           | 4.7GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i5 processor 14400T  | 35W     | 10          | 16            | -                           | 1.5GHz                             | 1.1GHz                           | 4.5GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i3 processor 14100   | 60W     | 4           | 8             | -                           | 3.5GHz                             | -                                | 4.7GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Core™ i3 processor 14100T  | 35W     | 4           | 8             | -                           | 2.7GHz                             | -                                | 4.4GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | -             | -             | -        | -       |
| Intel® Processor 300              | 46W     | 2           | 4             | -                           | 3.9GHz                             | -                                | -                      |  | V      | V              | -             | -         | V      | -             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Processor 300T             | 35W     | 2           | 4             | -                           | 3.4GHz                             | -                                | -                      |  | V      | V              | -             | -         | V      | -             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i9-13900K Processor  | 125W    | 24          | 32            | -                           | 3.0GHz                             | 2.2GHz                           | 5.8GHz                 |  | -      | V              | -             | -         | -      | -             | -       | -      | -             | V             | -             | -        | -       |
| Intel® Core™ i9-13900 Processor   | 65W     | 24          | 32            | -                           | 2.0GHz                             | 1.5GHz                           | 5.6GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i9-13900E Processor  | 65W     | 24          | 32            | 1.8GHz                      | 1.8GHz                             | 1.3GHz                           | 5.2GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i9-13900TE Processor | 35W     | 24          | 32            | 1.0GHz                      | 1.0GHz                             | 0.8GHz                           | 5.0GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i7-13700 Processor   | 65W     | 16          | 24            | -                           | 2.1GHz                             | 1.5GHz                           | 5.2GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i7-13700E Processor  | 65W     | 16          | 24            | 1.9GHz                      | 1.9GHz                             | 1.3GHz                           | 5.1GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i7-13700T Processor  | 35W     | 16          | 24            | -                           | 1.4GHz                             | 1.0GHz                           | 4.9GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i7-13700TE Processor | 35W     | 16          | 24            | -                           | 1.1GHz                             | 0.8GHz                           | 4.8GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i5-13500 Processor   | 65W     | 14          | 20            | -                           | 2.5GHz                             | 1.8GHz                           | 4.8GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i5-13500E Processor  | 65W     | 14          | 20            | 2.4GHz                      | 2.4GHz                             | 1.5GHz                           | 4.6GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i5-13500T Processor  | 35W     | 14          | 20            | -                           | 1.6GHz                             | 1.2GHz                           | 4.6GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Core™ i5-13500TE Processor | 35W     | 14          | 20            | 1.3GHz                      | 1.3GHz                             | 1.1GHz                           | 4.5GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Core™ i5-13400 Processor   | 65W     | 10          | 16            | -                           | 2.5GHz                             | 1.8GHz                           | 4.6GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i5-13400E Processor  | 65W     | 10          | 16            | 2.4GHz                      | 2.4GHz                             | 1.5GHz                           | 4.6GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i3-13100 Processor   | 60W     | 4           | 8             | -                           | 3.4GHz                             | -                                | 4.5GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i3-13100F Processor  | 58W     | 4           | 8             | -                           | 3.4GHz                             | -                                | 4.5GHz                 |  | -      | V              | -             | -         | -      | -             | -       | -      | -             | V             | -             | -        | -       |
| Intel® Core™ i3-13100T Processor  | 35W     | 4           | 8             | -                           | 2.5GHz                             | -                                | 4.2GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Core™ i3-13100TE Processor | 35W     | 4           | 8             | 2.4GHz                      | 2.4GHz                             | -                                | 4.1GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Core™ i3-13100E Processor  | 60W     | 4           | 8             | 3.3GHz                      | 3.3GHz                             | -                                | 4.4GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i9-12900K Processor  | 125W    | 16          | 24            | -                           | 3.2GHz                             | 2.4GHz                           | 5.2GHz                 |  | -      | V              | -             | -         | -      | -             | -       | -      | -             | V             | -             | -        | -       |
| Intel® Core™ i9-12900 Processor   | 65W     | 16          | 24            | -                           | 2.4GHz                             | 1.8GHz                           | 5.1GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i9-12900E Processor  | 65W     | 16          | 24            | -                           | 2.3GHz                             | 1.7GHz                           | 5.0GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i9-12900TE Processor | 35W     | 16          | 24            | -                           | 1.1GHz                             | 1.0GHz                           | 4.8GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Core™ i7-12700 Processor   | 65W     | 12          | 20            | -                           | 2.1GHz                             | 1.6GHz                           | 4.9GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i7-12700E Processor  | 65W     | 12          | 20            | -                           | 2.1GHz                             | 1.6GHz                           | 4.8GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i7-12700TE Processor | 35W     | 12          | 20            | -                           | 1.4GHz                             | 1.0GHz                           | 4.6GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Core™ i5-12500 Processor   | 65W     | 6           | 12            | -                           | 3.0GHz                             | -                                | 4.6GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i5-12500E Processor  | 65W     | 6           | 12            | -                           | 2.9GHz                             | -                                | 4.5GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i5-12500TE Processor | 35W     | 6           | 12            | -                           | 1.9GHz                             | -                                | 4.3GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |

CPU information is based on Intel ARK, subject to change by Intel without notice.  
Please note the board specifications might not comply with Intel Cores/Threads/Frequency, but depending on Avalue board specifications.

CPU リスト

Intel® デスクトップ プロセッサ

| SKUs (with Intel ARK Link)             | TDP (W) | Total Cores | Total Threads | Processor<br>Base Frequency | Performance-core<br>Base Frequency | Efficient-core<br>Base Frequency | Max Turbo<br>Frequency |  | BC680R | EAX-<br>R680FP | EAX-<br>W480P | EAX-C246P | RX680R | ERX-<br>W480P | MX610HD | MX610H | EMX-<br>W880P | EMX-<br>R680P | EMX-<br>C246P | ECM-ADLS | ECM-CFS |
|----------------------------------------|---------|-------------|---------------|-----------------------------|------------------------------------|----------------------------------|------------------------|--|--------|----------------|---------------|-----------|--------|---------------|---------|--------|---------------|---------------|---------------|----------|---------|
| Intel® Core™ i5-12400 Processor        | 65W     | 6           | 12            | -                           | 2.5GHz                             | -                                | 4.4GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i3-12100 Processor        | 60W     | 4           | 8             | -                           | 3.3GHz                             | -                                | 4.3GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i3-12100E Processor       | 60W     | 4           | 8             | -                           | 3.2GHz                             | -                                | 4.2GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Core™ i3-12100TE Processor      | 35W     | 4           | 8             | -                           | 2.1GHz                             | -                                | 4.0GHz                 |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Pentium® Gold G7400E Processor  | 46W     | 2           | 4             | -                           | 3.6GHz                             | -                                | -                      |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Pentium® Gold G7400TE Processor | 35W     | 2           | 4             | -                           | 3.0GHz                             | -                                | -                      |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Pentium® Gold G7400 Processor   | 46W     | 2           | 4             | -                           | 3.7GHz                             | -                                | -                      |  | -      | V              | -             | -         | -      | -             | -       | -      | -             | V             | -             | -        | -       |
| Intel® Pentium® Gold G7400T Processor  | 35W     | 2           | 4             | -                           | 3.1GHz                             | -                                | -                      |  | -      | V              | -             | -         | -      | -             | -       | -      | -             | V             | -             | V        | -       |
| Intel® Celeron® Processor G6900        | 46W     | 2           | 2             | -                           | 3.4GHz                             | -                                | -                      |  | -      | V              | -             | -         | -      | -             | -       | -      | -             | V             | -             | -        | -       |
| Intel® Celeron® Processor G6900T       | 35W     | 2           | 2             | -                           | 2.8GHz                             | -                                | -                      |  | -      | V              | -             | -         | -      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Celeron® Processor G6900E       | 46W     | 2           | 2             | -                           | 3.0GHz                             | -                                | -                      |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | -        | -       |
| Intel® Celeron® Processor G6900TE      | 35W     | 2           | 2             | -                           | 2.4GHz                             | -                                | -                      |  | V      | V              | -             | -         | V      | -             | V       | V      | -             | V             | -             | V        | -       |
| Intel® Xeon® W-1290E Processor         | 95W     | 10          | 20            | 3.5GHz                      | -                                  | -                                | 4.8GHz                 |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Xeon® W-1270E Processor         | 80W     | 8           | 16            | 3.4GHz                      | -                                  | -                                | 4.8GHz                 |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Xeon® W-1250E Processor         | 80W     | 6           | 12            | 3.5GHz                      | -                                  | -                                | 4.7GHz                 |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Xeon® W-1250TE Processor        | 35W     | 6           | 12            | 2.4GHz                      | -                                  | -                                | 3.8GHz                 |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Xeon® W-1270TE Processor        | 35W     | 8           | 16            | 2.0GHz                      | -                                  | -                                | 4.4GHz                 |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Xeon® W-1290TE Processor        | 35W     | 10          | 20            | 1.8GHz                      | -                                  | -                                | 4.5GHz                 |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i9-10900TE Processor      | 35W     | 10          | 20            | 1.8GHz                      | -                                  | -                                | 4.5GHz                 |  | -      | -              | V             | -         | -      | v             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i9-10900E Processor       | 65W     | 10          | 20            | 2.8GHz                      | -                                  | -                                | 4.7GHz                 |  | -      | -              | V             | -         | -      | v             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i7-10700TE Processor      | 35W     | 8           | 16            | 2.0GHz                      | -                                  | -                                | 4.4GHz                 |  | -      | -              | V             | -         | -      | v             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i7-10700E Processor       | 65W     | 8           | 16            | 2.9GHz                      | -                                  | -                                | 4.5GHz                 |  | -      | -              | V             | -         | -      | v             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i5-10500TE Processor      | 35W     | 6           | 12            | 2.3GHz                      | -                                  | -                                | 3.7GHz                 |  | -      | -              | V             | -         | -      | v             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i5-10500E Processor       | 65W     | 6           | 12            | 3.1GHz                      | -                                  | -                                | 4.2GHz                 |  | -      | -              | V             | -         | -      | v             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i3-10100E Processor       | 65W     | 4           | 8             | 3.2GHz                      | -                                  | -                                | 3.8GHz                 |  | -      | -              | V             | -         | -      | -             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Core™ i3-10100TE Processor      | 35W     | 4           | 8             | 2.3GHz                      | -                                  | -                                | 3.6GHz                 |  | -      | -              | V             | -         | -      | -             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Pentium® Gold G6400E Processor  | 58W     | 2           | 4             | 3.8GHz                      | -                                  | -                                | -                      |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Pentium® Gold G6400TE Processor | 35W     | 2           | 4             | 3.2GHz                      | -                                  | -                                | -                      |  | -      | -              | V             | -         | -      | -             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Celeron® Processor G5900E       | 58W     | 2           | 2             | 3.2GHz                      | -                                  | -                                | -                      |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Celeron® Processor G5900TE      | 35W     | 2           | 2             | 3.0GHz                      | -                                  | -                                | -                      |  | -      | -              | V             | -         | -      | V             | -       | -      | -             | -             | -             | -        | -       |
| Intel® Xeon® E-2278GEL Processor       | 35 W    | 8           | 16            | 2.0GHz                      | -                                  | -                                | 3.9GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Xeon® E-2226GE Processor        | 80 W    | 6           | 6             | 3.4GHz                      | -                                  | -                                | 4.6GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Xeon® E-2124G Processor         | 71 W    | 4           | 4             | 3.4GHz                      | -                                  | -                                | 4.5GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Xeon® E-2176G Processor         | 80 W    | 6           | 12            | 3.7GHz                      | -                                  | -                                | 4.7GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Core™ i7-9700TE Processor       | 35 W    | 8           | 8             | 1.8GHz                      | -                                  | -                                | 3.8GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | V       |
| Intel® Core™ i7-9700E Processor        | 65 W    | 8           | 8             | 2.6GHz                      | -                                  | -                                | 4.4GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Core™ i7-8700T Processor        | 35 W    | 6           | 12            | 2.4GHz                      | -                                  | -                                | 4.0GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | V       |
| Intel® Core™ i7-8700 Processor         | 65 W    | 6           | 12            | 3.2GHz                      | -                                  | -                                | 4.6GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Core™ i5-9500TE Processor       | 35 W    | 6           | 6             | 2.2GHz                      | -                                  | -                                | 3.6GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | V       |
| Intel® Core™ i5-9500E Processor        | 65 W    | 6           | 6             | 3.0GHz                      | -                                  | -                                | 4.2GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Core™ i5-8500T Processor        | 35 W    | 6           | 6             | 2.1GHz                      | -                                  | -                                | 3.5GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | V       |
| Intel® Core™ i5-8500 Processor         | 65 W    | 6           | 6             | 3.0GHz                      | -                                  | -                                | 4.1GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Core™ i3-9100TE Processor       | 35 W    | 4           | 4             | 2.2GHz                      | -                                  | -                                | 3.2GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | V       |
| Intel® Core™ i3-9100E Processor        | 65 W    | 4           | 4             | 3.1GHz                      | -                                  | -                                | 3.7GHz                 |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Core™ i3-8100T Processor        | 35 W    | 4           | 4             | 3.1GHz                      | -                                  | -                                | -                      |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | V       |
| Intel® Core™ i3-8100 Processor         | 65 W    | 4           | 4             | 3.6GHz                      | -                                  | -                                | -                      |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Celeron® G4900 Processor        | 54 W    | 2           | 2             | 3.1GHz                      | -                                  | -                                | -                      |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Celeron® G4900T Processor       | 35 W    | 2           | 2             | 2.9GHz                      | -                                  | -                                | -                      |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | V       |
| Intel® Pentium® Gold G5400 Processor   | 58 W    | 2           | 4             | 3.7GHz                      | -                                  | -                                | -                      |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | -       |
| Intel® Pentium® Gold G5400T Processor  | 35 W    | 2           | 4             | 3.1GHz                      | -                                  | -                                | -                      |  | -      | -              | -             | V         | -      | -             | -       | -      | -             | -             | V             | -        | V       |

CPU information is based on Intel ARK, subject to change by Intel without notice.  
Please note the board specifications might not comply with Intel Cores/Threads/Frequency, but depending on Avalue board specifications.

CPU リスト

Intel® Core™ Ultra プロセッサ, Intel® Core™ プロセッサ, Intel® プロセッサ,  
Intel® プロセッサ U-シリーズ, Intel® Celeron® プロセッサ 6000 シリーズ

| SKUs (with Intel ARK Link)          | TDP (W) | Total Cores | Total Threads | Processor Base Frequency | Performance-core Base Frequency | Efficient-core Base frequency | Max Turbo Frequency |  | EMX-MTLP | EMX-RPLP | EMX-TGLP | EMX-TGLC | ECM-MTL | ECM-RPL | ECM-TGU | ECM-TGUC | ESM-RPL | ESM-TGH | ESM-RPLC |
|-------------------------------------|---------|-------------|---------------|--------------------------|---------------------------------|-------------------------------|---------------------|--|----------|----------|----------|----------|---------|---------|---------|----------|---------|---------|----------|
| Intel® Core™ Ultra 7 Processor 165H | 28W     | 16          | 22            | -                        | 1.4GHz                          | 0.9GHz                        | 5.0GHz              |  | V        | -        | -        | -        | V       | -       | -       | -        | -       | -       | -        |
| Intel® Core™ Ultra 7 Processor 155H | 28W     | 16          | 22            | -                        | 1.4GHz                          | 0.9GHz                        | 4.8GHz              |  | V        | -        | -        | -        | V       | -       | -       | -        | -       | -       | -        |
| Intel® Core™ Ultra 5 Processor 135H | 28W     | 14          | 18            | -                        | 1.7GHz                          | 1.2GHz                        | 4.6GHz              |  | V        | -        | -        | -        | V       | -       | -       | -        | -       | -       | -        |
| Intel® Core™ Ultra 5 Processor 125H | 28W     | 14          | 18            | -                        | 1.2GHz                          | 0.7GHz                        | 4.5GHz              |  | V        | -        | -        | -        | V       | -       | -       | -        | -       | -       | -        |
| Intel® Core™ Ultra 7 Processor 165U | 15W     | 12          | 14            | -                        | 1.7GHz                          | 1.2GHz                        | 4.9GHz              |  | V        | -        | -        | -        | V       | -       | -       | -        | -       | -       | -        |
| Intel® Core™ Ultra 7 Processor 155U | 15W     | 12          | 14            | -                        | 1.7GHz                          | 1.2GHz                        | 4.8GHz              |  | V        | -        | -        | -        | V       | -       | -       | -        | -       | -       | -        |
| Intel® Core™ Ultra 5 Processor 135U | 15W     | 12          | 14            | -                        | 1.6GHz                          | 1.1GHz                        | 4.4GHz              |  | V        | -        | -        | -        | V       | -       | -       | -        | -       | -       | -        |
| Intel® Core™ Ultra 5 Processor 125U | 15W     | 12          | 14            | -                        | 1.3GHz                          | 0.8GHz                        | 4.3GHz              |  | V        | -        | -        | -        | V       | -       | -       | -        | -       | -       | -        |
| Intel® Core™ i7-1365UE Processor    | 15W     | 10          | 12            | 1.7GHz                   | -                               | -                             | 4.9GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | -       | -       | V        |
| Intel® Core™ i5-1335UE Processor    | 15W     | 10          | 12            | 1.3GHz                   | -                               | -                             | 4.5GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | -       | -       | V        |
| Intel® Core™ i3-1315UE Processor    | 15W     | 6           | 8             | 1.2GHz                   | -                               | -                             | 4.5GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | -       | -       | V        |
| Intel® Processor U300E              | 15W     | 5           | 6             | 1.1GHz                   | -                               | -                             | 4.3GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | -       | -       | V        |
| Intel® Core™ i7-1365URE Processor   | 15W     | 10          | 12            | 1.7GHz                   | -                               | -                             | 4.9GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | V       | -       | V        |
| Intel® Core™ i5-1345URE Processor   | 15W     | 10          | 12            | 1.4GHz                   | -                               | -                             | 4.6GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | -       | -       | V        |
| Intel® Core™ i3-1315URE Processor   | 15W     | 6           | 8             | 1.2GHz                   | -                               | -                             | 4.5GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | -       | -       | V        |
| Intel® Core™ i7-1370PE Processor    | 28W     | 14          | 20            | 1.9GHz                   | -                               | -                             | 4.8GHz              |  | -        | -        | -        | -        | -       | V       | -       | -        | -       | -       | -        |
| Intel® Core™ i5-1340PE Processor    | 28W     | 12          | 16            | 1.8GHz                   | -                               | -                             | 4.5GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | V       | -       | V        |
| Intel® Core™ i3-1320PE Processor    | 28W     | 8           | 12            | 1.7GHz                   | -                               | -                             | 4.5GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | -       | -       | -        |
| Intel® Core™ i7-1370PRE Processor   | 28W     | 14          | 20            | 1.9GHz                   | -                               | -                             | 4.8GHz              |  | -        | -        | -        | -        | -       | V       | -       | -        | V       | -       | V        |
| Intel® Core™ i5-1350PRE Processor   | 28W     | 12          | 16            | 1.8GHz                   | -                               | -                             | 4.6GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | V       | -       | V        |
| Intel® Core™ i3-1320PRE Processor   | 28W     | 8           | 12            | 1.7GHz                   | -                               | -                             | 4.5GHz              |  | -        | V        | -        | -        | -       | V       | -       | -        | -       | -       | V        |
| Intel® Core™ i5-13600HE Processor   | 45W     | 12          | 16            | 2.7GHz                   | -                               | -                             | 4.8GHz              |  | -        | V        | -        | -        | -       | -       | -       | -        | V       | -       | -        |
| Intel® Core™ i5-13600HRE Processor  | 45W     | 12          | 16            | 2.7GHz                   | -                               | -                             | 4.8GHz              |  | -        | -        | -        | -        | -       | -       | -       | -        | V       | -       | -        |
| Intel® Core™ i7-1185G7E Processor   | 12-28W  | 4           | 8             | 1.8GHz                   | -                               | -                             | 4.4GHz              |  | -        | -        | V        | -        | -       | -       | V       | -        | -       | -       | -        |
| Intel® Core™ i7-1185GRE Processor   | 12-28W  | 4           | 8             | 1.8GHz                   | -                               | -                             | 4.4GHz              |  | -        | -        | V        | -        | -       | -       | V       | -        | -       | -       | -        |
| Intel® Core™ i5-1135G7 Processor    | 12-28W  | 4           | 8             | 0.9GHz*                  | -                               | -                             | 4.2GHz              |  | -        | -        | -        | V        | -       | -       | -       | V        | -       | -       | -        |
| Intel® Core™ i5-1145G7E Processor   | 12-28W  | 4           | 8             | 1.5GHz                   | -                               | -                             | 4.1GHz              |  | -        | -        | V        | -        | -       | -       | V       | -        | -       | -       | -        |
| Intel® Core™ i5-1145GRE Processor   | 12-28W  | 4           | 8             | 1.5GHz                   | -                               | -                             | 4.1GHz              |  | -        | -        | V        | -        | -       | -       | V       | -        | -       | -       | -        |
| Intel® Core™ i3-1115G4 Processor    | 12-28W  | 2           | 4             | 1.7GHz*                  | -                               | -                             | 4.1GHz              |  | -        | -        | -        | V        | -       | -       | -       | V        | -       | -       | -        |
| Intel® Core™ i3-1115G4E Processor   | 12-28W  | 2           | 4             | 2.2GHz                   | -                               | -                             | 3.9GHz              |  | -        | -        | V        | -        | -       | -       | V       | -        | -       | -       | -        |
| Intel® Core™ i3-1115GRE Processor   | 12-28W  | 2           | 4             | 2.2GHz                   | -                               | -                             | 3.9GHz              |  | -        | -        | V        | -        | -       | -       | V       | -        | -       | -       | -        |
| Intel® Celeron® 6305E Processor     | 15W     | 2           | 2             | 1.8GHz                   | -                               | -                             | -                   |  | -        | -        | V        | -        | -       | -       | V       | -        | -       | -       | -        |
| Intel® Core™ i7-11850HE Processor   | 45W     | 8           | 16            | 2.1GHz*                  | -                               | -                             | 4.7GHz              |  | -        | -        | -        | -        | -       | -       | -       | -        | -       | V       | -        |
| Intel® Core™ i5-11500HE Processor   | 45W     | 6           | 12            | 2.1GHz*                  | -                               | -                             | 4.5GHz              |  | -        | -        | -        | -        | -       | -       | -       | -        | -       | V       | -        |
| Intel® Core™ i3-11100HE Processor   | 45W     | 4           | 8             | 1.9GHz*                  | -                               | -                             | 4.4GHz              |  | -        | -        | -        | -        | -       | -       | -       | -        | -       | V       | -        |
| Intel® Celeron® 6600HE Processor    | 35W     | 2           | 2             | 2.6GHz*                  | -                               | -                             | -                   |  | -        | -        | -        | -        | -       | -       | -       | -        | -       | V       | -        |
| Intel® Xeon® W-11865MRE Processor   | 45W     | 8           | 16            | 2.1GHz*                  | -                               | -                             | 4.7GHz              |  | -        | -        | -        | -        | -       | -       | -       | -        | -       | V       | -        |
| Intel® Xeon® W-11155MRE Processor   | 45W     | 4           | 8             | 1.9GHz*                  | -                               | -                             | 4.4GHz              |  | -        | -        | -        | -        | -       | -       | -       | -        | -       | V       | -        |

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Please note the board specifications might not comply with Intel Cores/Threads/Frequency, but depending on Avalue board specifications.



# CPU リスト

Intel Atom® プロセッサ Intel® Pentium® プロセッサ J/N シリーズ,  
Intel® Celeron® プロセッサ J/N シリーズ

| SKUs (with Intel ARK Link)      | TDP (W) | Total Cores | Total Threads | Processor Base Frequency" | Max Turbo Frequency | EMX-ASLP | EMX-EHLP | ECM-ASL | ECM-EHL3 |  | ECM-EHL | ECM-APL | EPX-ASLP | EPX-EHLP | EPX-APLP | EZX-EHLP | ESM-ASLC | ESM-EHLC | ESM-APLC | ESM-APLM | EQM-EHL | EQM-APL |
|---------------------------------|---------|-------------|---------------|---------------------------|---------------------|----------|----------|---------|----------|--|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| Intel Atom® x7211RE Processor   | 9W      | 2           | -             | 1.0GHz                    | 3.2GHz              | V        | -        | V       | -        |  | -       | -       | V        | -        | -        | -        | V        | -        | -        | -        | -       | -       |
| Intel Atom® x7213RE Processor   | 9W      | 2           | -             | 1.7GHz                    | 3.4GHz              | V        | -        | V       | -        |  | -       | -       | V        | -        | -        | -        | V        | -        | -        | -        | -       | -       |
| Intel Atom® x7433RE Processor   | 9W      | 4           | -             | 1.5GHz                    | 3.4GHz              | V        | -        | V       | -        |  | -       | -       | -        | -        | -        | -        | V        | -        | -        | -        | -       | -       |
| Intel Atom® x7835RE Processor   | 12W     | 8           | -             | 1.3GHz                    | 3.6GHz              | V        | -        | V       | -        |  | -       | -       | V        | -        | -        | -        | V        | -        | -        | -        | -       | -       |
| Intel® Processor N97            | 6W      | 4           | -             | 2.0GHz                    | 3.6GHz              | V        | -        | V       | -        |  | -       | -       | V        | -        | -        | -        | -        | -        | -        | -        | -       | -       |
| Intel® Core™ i3-N305 Processor  | 15W     | 8           | 8             | 1.0GHz                    | 3.8GHz              | V        | -        | V       | -        |  | -       | -       | -        | -        | -        | -        | -        | -        | -        | -        | -       | -       |
| Intel Atom® x6425RE Processor   | 12 W    | 4           | 4             | 1.9GHz                    | -                   | -        | V        | -       | V        |  | V       | -       | -        | -        | -        | -        | -        | V        | -        | -        | -       | -       |
| Intel Atom® x6414RE Processor   | 9 W     | 4           | 4             | 1.5GHz                    | -                   | -        | -        | -       | -        |  | V       | -       | -        | -        | -        | -        | -        | V        | -        | -        | -       | -       |
| Intel Atom® x6212RE Processor   | 6 W     | 2           | 2             | 1.2GHz                    | -                   | -        | -        | -       | -        |  | -       | -       | -        | -        | -        | V        | -        | -        | -        | -        | -       | -       |
| Intel Atom® x6211E Processor    | 6 W     | 2           | 2             | 1.3GHz                    | -                   | -        | -        | -       | V        |  | V       | -       | -        | V        | -        | V        | -        | -        | -        | -        | V       | -       |
| Intel Atom® x6425E Processor    | 12 W    | 4           | 4             | 2.0GHz                    | -                   | -        | -        | -       | V        |  | V       | -       | -        | -        | -        | -        | -        | V        | -        | -        | -       | -       |
| Intel Atom® x6413E Processor    | 9 W     | 4           | 4             | 1.5GHz                    | -                   | -        | V        | -       | V        |  | V       | -       | -        | V        | -        | V        | -        | V        | -        | -        | V       | -       |
| Intel® Pentium® Processor J6426 | 10 W    | 4           | 4             | 2.0GHz                    | -                   | -        | -        | -       | V        |  | V       | -       | -        | -        | -        | -        | -        | -        | -        | -        | -       | -       |
| Intel® Pentium® Processor N6415 | 6.5 W   | 4           | 4             | 1.2GHz                    | -                   | -        | -        | -       | -        |  | -       | -       | -        | -        | -        | -        | -        | -        | -        | -        | V       | -       |
| Intel® Celeron® Processor J6412 | 10 W    | 4           | 4             | 2.0GHz                    | -                   | -        | V        | -       | V        |  | V       | -       | -        | V        | -        | V        | -        | V        | -        | -        | -       | -       |
| Intel® Celeron® Processor J6413 | 10 W    | 4           | 4             | 1.8GHz                    | -                   | -        | V        | -       | V        |  | V       | -       | -        | V        | -        | V        | -        | V        | -        | -        | -       | -       |
| Intel® Celeron® Processor N6210 | 6.5 W   | 2           | 2             | 1.2GHz                    | -                   | -        | -        | -       | -        |  | V       | -       | -        | -        | -        | -        | -        | -        | -        | -        | -       | -       |
| Intel® Celeron® Processor N6211 | 6.5 W   | 2           | 2             | 1.2GHz                    | -                   | -        | -        | -       | -        |  | V       | -       | -        | -        | -        | -        | -        | -        | -        | -        | V       | -       |
| Intel Atom® x7-E3950 Processor  | 12 W    | 4           | 4             | 1.6GHz                    | -                   | -        | -        | -       | -        |  | -       | V       | -        | -        | -        | -        | -        | -        | -        | -        | -       | -       |
| Intel Atom® x5-E3940 Processor  | 9.5 W   | 4           | 4             | 1.6GHz                    | -                   | -        | -        | -       | -        |  | -       | V       | -        | -        | -        | -        | -        | -        | -        | -        | -       | -       |
| Intel Atom® x5-E3930 Processor  | 6.5 W   | 2           | 2             | 1.3GHz                    | -                   | -        | -        | -       | -        |  | -       | V       | -        | -        | -        | -        | -        | -        | -        | -        | -       | -       |
| Intel® Pentium® Processor N4200 | 6 W     | 4           | 4             | 1.1GHz                    | -                   | -        | -        | -       | -        |  | -       | V       | -        | -        | -        | -        | -        | -        | V        | V        | -       | V       |
| Intel® Celeron® Processor J3455 | 10 W    | 4           | 4             | 1.5GHz                    | -                   | -        | -        | -       | -        |  | -       | V       | -        | -        | V        | -        | -        | -        | V        | -        | -       | V       |
| Intel® Celeron® Processor N3350 | 6 W     | 2           | 2             | 1.1GHz                    | -                   | -        | -        | -       | -        |  | -       | V       | -        | -        | V        | -        | -        | -        | V        | V        | -       | V       |

CPU information is based on Intel ARK, subject to change by Intel without notice.  
Please note the board specifications might not comply with Intel Cores/Threads/Frequency, but depending on Avalue board specifications.

周辺機器 & アクセサリー



Avalue周辺機器は幅広い製品を揃えており、システムまたはソリューションを構築するために最適な製品を提供します。

標準品でカバーされていないものの場合、当社の調達部門がお客様のご要望に沿って調査いたします。

私たちはお客様のご要望に沿った最適なサービスをご提供いたします。

| 周辺機器 & アクセサリー |                               |                                                                                                                                                     |
|---------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| No            | Embedded Peripherals          | Description                                                                                                                                         |
| 1             | Power Board                   | EPM-1712 Vehicle 100Watt Smart DC/DC Converter                                                                                                      |
|               |                               | EPM-1715 Super Cap Power Module                                                                                                                     |
|               |                               | EPM-1721 Railway 60W Power Board                                                                                                                    |
|               |                               | EPM-1722 DC to DC 60W Marine Power Module                                                                                                           |
| 2             | Display Board                 | EPM-1502 eDP to VGA Converter                                                                                                                       |
| 3             | IO Board                      | EPM-1601 mPCIe to 4-RS-232 Module                                                                                                                   |
|               |                               | EPM-1602 mPCIe to 4-RS-422/485 Module                                                                                                               |
|               |                               | EPM-1603 USB to 4-RS-232/422/485 Module                                                                                                             |
|               |                               | EPM-1604 4 Port USB 2.0 Hub                                                                                                                         |
|               |                               | EPM-1605 USB to mPCIe Module                                                                                                                        |
|               |                               | EPM-1606 mPCIe to M.2 Transfer Board                                                                                                                |
|               |                               | EPM-1607 M.2 2242/2260/2280 to 4-RS-232 Module                                                                                                      |
|               |                               | EPM-1608 M.2 2242/2260/2280 Dual 2.5 GbE LAN Module                                                                                                 |
|               |                               | EPM-1609 M.2 2280 B/M Key 2.5GbE Module                                                                                                             |
| 4             | Industrial Storage            | SSD: 2.5", mSATA, M.2, CFAST, CF, DOM<br>HDD: 2.5", 3.5"<br>M.2: 2242, 2280                                                                         |
| 5             | Industrial Module             | Type: SO-DIMM, Long-DIMM<br>Capacity: Max. Up to 32GB<br>Temperature: Standard or Industrial Temperature                                            |
| 6             | Wi-Fi Module                  | Form Factor: mPCIe/ M.2<br>Bluetooth Supported                                                                                                      |
| 7             | 4G/ 5G Module                 | Type: 4G/ 5G Module<br>Interface: mCPIE, M.2                                                                                                        |
| 8             | Capture Card                  | Mini SDI/ HDV Capture Card<br>w/ H.264 High Profile Encoding                                                                                        |
| 9             | Mini LAN Port                 | 2-port 10/100/1000 Ethernet Board                                                                                                                   |
| 10            | Power Adapter                 | AC DC Adapter 60W/ 84W/ 120W/ 200W/ 220W                                                                                                            |
| 11            | Microsoft Windows Embedded OS | Avalue Provides Embedded Software to Customers Who Integrated Avalue's Hardware Products.<br>Windows 10 IoT Enterprise<br>Windows 11 IoT Enterprise |

周辺機器 & アクセサリー



**EPM-1502**  
**eDP to VGA Converter**

- Input Interface 40pin eDP Signal
- Output Interface DB-Sub VGA
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation
- Support VESA and CEA Timing Standards up to 1920 x 1200 @ 60Hz



**EPM-1601**  
**mPCIe to 4-RS-232 Module**

- Input Interface PCI-Express. 2.0
- Output Interface 4 x RS-232
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation
- Support Ring Wake Function (Optional)



**EPM-1602**  
**mPCIe to 4-RS-422/485 Module**

- Input Interface PCI-Express. 2.0
- Output Interface 4 x RS-422/285
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation
- Support Auto Flow Control
- Cable for mPCIe to Four DB-9 Connectors



**EPM-1603**  
**USB to 4-RS-232/422/485 Module**

- Input Interface USB2.0
- Output Interface 4 x RS232/422/485
- 2 x USB 2.0 w/ Type A Connector
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation



**EPM-1604**  
**4-Port USB 2.0 Hub**

- 4 x Port USB Hub, Open Bare-board Design
- 4 x Internal USB2.0 Type A Female Connector for Down Port
- 1 x Internal Wafer 2pin Connector for DC-input (+12V, Max 1A)
- Compliant with Universal Serial Bus Specification Revision 2.0 (Data Rate 1.5/12/480Mbps), USB 1.1 Compatible



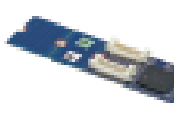
**EPM-1605**  
**USB to mPCIe Module with USIM**

- Input Interface USB 2.0
- Output Interface USB 2.0
- Operation Temperature : 0 ~ 60°C
- 1x USIM Slot Expansion



**EPM-1606**  
**mPCIe to M.2 A/E key Transfer Board**

- M.2 Wi-Fi & Bluetooth Module (PCIe and USB Base) to Mini PCIe Converter
- Support Windows, MAC and Linux
- Multiple Plated-holes Support M.2 Type 2230/2242
- Operating Temperature: -40 ~ 80°C



**EPM-1607**  
**M.2 2242/2260/2280 to 4 -RS-232 Module**

- Input Interface PCI-Express. 2.0
- Output Interface 4 x RS-232
- Support M.2 Type 2242/2260/2280 Plated-holes
- Industrial Temperature (W/T Temp. -40 ~ 85°C) Operation
- Support Ring Wake Function (Optional)



**EPM-1608**  
**M.2 2242/2260/2280 Dual 2.5 GbE LAN Module**

- 3-in-1 form Factor 2280/2260/2242
- Ultrafast Transfer Speeds via 2-Native PCIe Lane
- Quickly Adds Two Independent Gigabit Ethernet Ports (with 2kV Isolation) to Embedded Systems
- Supports Wake-on LAN Ensures Unhindered Remoting



**EPM-1609**  
**M.2 2280 B/M Key 2.5GbE module**

- M.2 2280 B/M Key Support Max 2.5GBbE Module
- Compact M.2 PCIe Ethernet Card with RJ-45 Connector on Board
- Support PCI Express x1-lane Host Interface
- Supports Wake-on LAN Ensures Unhindered Remoting
- Quickly Adds Single Independent Ethernet Ports to Embedded Systems



**EPM-1712**  
**Vehicle 100Watt Smart DC/DC Converter**

- Wide Range DC Input: Typical 12/24Vdc (+9 ~ +36V)
- Intelligent System on/off Control Via Jumper Setting
- 6 Selectable Power on/off Timing Modes
- Load Down/ Over Voltage/ Short Circuit/ Over Current Protection
- Battery Voltage Monitor



**EPM-1715**  
**Supercap Power Module**

- 500'000 Charge & Discharge Cycling
- 4 x 400F Supercapacitor up to 6-Cell and 8-Cell
- AP for The Parameter Selecting
- Wide Temperature Range: 0 ~ 60°C
- Wide DC Input: +12 ~ 24Vdc
- Over Temperature Protection



**EPM-1721**  
**Railway 60W Power Board**

- Input to Output Isolation 1500Vdc
- Output Voltage 12Vdc
- Output Current 5000mA
- Wide Temperature Range: -40 ~ +85°C
- Wide DC Input: +9 ~ 36Vdc
- Over Voltage and Current Protection
- Certified with EN50155 and EN50121-3-2



**EPM-1722**  
**DC to DC 60W Marine Power Module**

- Typical +24Vdc (+9Vdc ~ +36Vdc) w/1.5kV Isolation
- Output Voltage: 12Vdc
- Output Current: 5000mA
- Input to Output Isolation: 1500Vdc
- Operating temperature range: -40 ~ 85°C
- Support IEC60945
- Over Voltage Protection, Hiccup Mode
- Over Current Protection, Hiccup Mode

小型フォームファクターのコンピュータオンモジュール（COM）は、重要な産業用途向けの信頼性の高い組み込みプラットフォームを提供します。すぐに使用でき、ユーザーのカスタマイズに最適で、プロジェクトのスケジュールとコストを削減できます。COM Express Type 6、COM Express Type 7、COM Express Type 10、Eval Carrier Board、Qseven、SMARC等を提供しています。

# Computer-on-Module

## Avalue COM Express® Competence Service for Design-Win

製品および  
資料サポート

- SOMモジュール
- 評価ボード
- 顧客の調査用の高速/  
早期サンプル
- 資料ダウンロード
  - デザインガイド
  - キャリアボード回路図
  - 機械図面
  - 熱設計図

設計支援サービス

- 回路図レビュー
- 配置/レイアウトレビュー
- 現地共同デバッグ
- 設計トレーニング
- 設計データベース

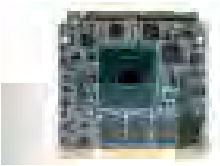
カスタマイズ/  
検証サービス

- コンフォーマル  
コーティング
- 拡張温度対応
- カスタマイズされた  
キャリアボード設計
- 熱設計のカスタマイズ  
および検証
- 環境/互換性/EMC/  
安全性の検証

組み込みOS  
サービス

- カスタマイズ
- ソフトウェア
  - カスタマイズ BIOS
  - カスタマイズOS  
イメージ
  - デバイスドライバ
- eOSインストール

# Qseven モジュール



| Model Number      | EQM-EHL                                                                                 | EQM-APL                                                                               | EQM-BYT                                                                |
|-------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Processor         | Intel® Celeron®/ Pentium®/ Atom™ SoC BGA Proces-<br>sor                                 | Intel® Pentium®/ Celeron® Processor                                                   | Intel® Atom™/ Celeron® Processor                                       |
| System Memory     | Onboard Single Channel LPDDR4 3200MT/s 4GB<br>Up to 8GB                                 | Onboard DDR3L 1600 & 1333MHz 4GB Up to 8GB                                            | Onboard DDR3L 2GB Up to 4 GB<br>(Processor E3845 Only Support 1333MHz) |
| Expansion         | 4 x PCIe Gen 3 x1                                                                       | 3 x PCIe1                                                                             | 3 x PCIe1                                                              |
| USB               | 8 x USB 2.0, 1 x USB 3.2 Gen1                                                           | 6 x USB 2.0, 2 x USB 3.0                                                              | 5 x USB 2.0, 1 x USB 3.0                                               |
| SATA              | 2 x SATA III                                                                            | 2 x SATA III                                                                          | 2 x SATA II                                                            |
| UART              | 1 x UART                                                                                | 1 x UART                                                                              | 1 x UART                                                               |
| MIO               | 1 x SMBus, 1 x LPC, 1 x I²C, 1 x SPI, 1 x SD, 1 x SDIO                                  | 1 x SMBus, 1 x LPC, 1 x I²C, 1 x SPI                                                  | 1 x LPC, 1 x SMBus, 1 x I²C                                            |
| Display Chipset   | Integrated Intel® Gen11 UHD Graphics Controller                                         | Intel® HD Graphics 500                                                                | Intel® HD Graphics                                                     |
| Display           | DP + (eDP or LVDS)                                                                      | (HDMI or DP)+ (eDP or LVDS)                                                           | DDI (HDMI or DP) + LVDS                                                |
| Audio             | Intel® High Definition Audio                                                            | Intel® High Definition Audio                                                          | Intel® High Definition Audio                                           |
| Ethernet Chipset  | 1 x Intel® I226LM/IT                                                                    | 1 x Intel® I210AT                                                                     | 1 x Intel® I210AT                                                      |
| Power Requirement | +5V                                                                                     | +5V                                                                                   | +5V                                                                    |
| Operating Temp.   | 0°C ~ 60°C (32°F ~ 140°F); -40°C ~ 85°C<br>(-40°F ~ 185°F) for Wide Temperature CPU SKU | 0°C ~ 70°C (32°F ~ 140°F)(Standard)<br>Extend: -20°C ~ 70°C (-4°F ~ 158°F) on Request | 0°C ~ 60°C (32°F ~ 140°F)(Standard)                                    |
| Dimension (L x W) | 2.75" x 2.75" (70 x 70 mm)                                                              | 2.75" x 2.75" (70 x 70 mm)                                                            | 2.75" x 2.75" (70 x 70 mm)                                             |
| Certification     | CE, FCC Class B                                                                         | CE, FCC Class B                                                                       | CE, FCC Class B                                                        |
| Software Support  | Win 10, Linux                                                                           | Win 10, Linux, Android                                                                | Win 10, Win 7, Win 8, Linux                                            |



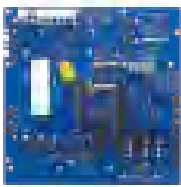
Qsevenモジュール



COM Express Type 6



COM Express Type 10



キャリアボード



SMARCモジュール



オープンスター  
ドモジュール

# COM Express Type 10



| Model Number          | ESM-APLM                                        |
|-----------------------|-------------------------------------------------|
| Processor             | Intel® Celeron®/ Pentium®/ Atom™ SoC Processor  |
| System Memory         | 1 x 204-pin DDR3L 600/1333MHz SO-DIMM up to 8GB |
| Expansion             | 1 x PCIe x4                                     |
| USB                   | 6 x USB 2.0<br>2 x USB 3.0                      |
| SATA                  | 2 x SATA III                                    |
| COM Port              | N/A                                             |
| MIO                   | 1 x SMBus<br>1 x LPC                            |
| Display Chipset       | Intel® HD Graphics 500                          |
| Display               | LVDS, DDI                                       |
| Audio                 | Intel® High Definition Audio                    |
| Ethernet              | 1 x Intel® I210AT                               |
| Power Requirement     | +4.75V ~ +20V                                   |
| Operating Temperature | 0°C ~ 60°C (32°F ~ 140°F)                       |
| Dimension (L x W)     | 84 x 55 mm<br>(3.31" x 2.17")                   |
| Certification         | CE, FCC Class B                                 |

# COM Express Type 6



| ESM-RPL                                                                                                                  | ESM-RPLC                                                                                                                | ESM-EHLC                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13th Gen. Intel® H-Series Embedded Industrial (45 W), P-Series Embedded Industrial (28 W) BGA Processor                  | 13th Gen. Intel® P-Series Embedded Industrial (28 W), U-Series Embedded Industrial (15 W) BGA Processor                 | Intel® Atom® x6000E Series and Intel® Pentium® and Celeron® J and N Series Processors                                                                                       |
| 2 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 64GB                                                                     | 1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 32GB                                                                    | 2 x 260-pin DDR4 3200MHz SO-DIMM Supports up to 32GB (Only Atom® x6000 Series Processors Support IB ECC)                                                                    |
| 1 x PCIe Gen4 x8 (Selected SKU, H Series)<br>2 x PCIe Gen4 x4<br>5 x PCIe Gen3 x1<br>2 x SATA (2 Lanes Shares with SATA) | 2 x PCIe Gen4 x4<br>5 x PCIe Gen3 x1<br>2 x SATA (2 Lanes Shares with SATA)                                             | 3 x PCIe x1                                                                                                                                                                 |
| 8 x USB 2.0<br>4 x USB 3.2 Gen2<br>2 x USB4 (Optional)                                                                   | 8 x USB 2.0<br>4 x USB 3.2 Gen2<br>2 x USB4 (Optional)                                                                  | 8 x USB 2.0<br>4 x USB 3.2 Gen2 x1 (10 Gbps)                                                                                                                                |
| 2 x SATA III                                                                                                             | 2 x SATA III                                                                                                            | 2 x SATA III                                                                                                                                                                |
| 2 x UART                                                                                                                 | 2 x UART                                                                                                                | 2 x UART                                                                                                                                                                    |
| 1 x SMBus<br>1 x LPC<br>1 x I²C<br>1 x SPI                                                                               | 1 x SMBus<br>1 x LPC<br>1 x I²C<br>1 x SPI                                                                              | 1 x SMBus<br>1 x LPC/ eSPI (Default)<br>1 x I²C<br>1 x SPI                                                                                                                  |
| Intel® Iris® Xe Graphics on i7/i5 Processors<br>Intel® UHD Graphics on i3/Celeron® Processors<br>Intel® Gfx up to 96 EU  | Intel® Iris® Xe Graphics on i7/i5 Processors<br>Intel® UHD Graphics on i3/Celeron® Processors<br>Intel® Gfx up to 96 EU | Intel® UHD Graphics for 10th Gen Intel® Processors                                                                                                                          |
| DDI, VGA, eDP/ LVDS                                                                                                      | DDI, VGA, eDP/ LVDS                                                                                                     | VGA, LVDS, DDI                                                                                                                                                              |
| Intel® High Definition Audio                                                                                             | Intel® High Definition Audio                                                                                            | Intel® High Definition Audio                                                                                                                                                |
| 1 x Intel® I226LM/IT                                                                                                     | 1 x Intel® I226LM/IT                                                                                                    | 1 x Intel® I225LM/IT                                                                                                                                                        |
| +9V ~ +19V                                                                                                               | +9V ~ +19V                                                                                                              | +9V ~ +19V                                                                                                                                                                  |
| 0°C ~ 60°C (32°F ~ 140°F)<br>-40°C ~ 70°C (-40°F ~ 158°F) for Wide Temperature CPU SKU                                   | 0°C ~ 60°C (32°F ~ 140°F)<br>-40°C ~ 75°C (-40°F ~ 167°F) for Wide Temperature CPU SKU                                  | 0°C ~ 60°C (32°F ~ 140°F) (Standard),<br>Extend: -40°C ~ 85°C (-40°F ~ 185°F) with 0.5m/s Air Flow. (Note: Above 70°C Tc, The Recommended Ethernet Speed is 1G.) on Request |
| 125 x 95 mm<br>(4.92" x 3.74")                                                                                           | 95 x 95 mm<br>(3.74" x 3.74")                                                                                           | 95 x 95 mm<br>(3.74" x 3.74")                                                                                                                                               |
| CE, FCC Class B                                                                                                          | CE, FCC Class B                                                                                                         | CE, FCC Class B                                                                                                                                                             |

# COM Express Type 6

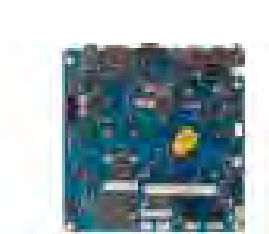


| ESM-APLC                                                  | ESM-TGH                                                                                                                               | ESM-CFH                                           | ESM-SKLH                                | ESM-ASLC                                                  |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------|-----------------------------------------------------------|
| Intel® Pentium®/ Celeron®/ Atom™ SoC Processor            | 11th Gen Intel® Xeon®/ Core™ i7/i5/i3/Celeron® BGA 10nm Processor                                                                     | 9/ 8th Gen Intel® Xeon®/ Core™ i7/i5/i3 Processor | 6th Gen Intel® Core™ i7/i5/i3 Processor | Intel® Atom™ x7000RE Series Processor                     |
| 1 x 204-pin DDR3L 1600MHz 1600/ 1333MHz SO-DIMM up to 8GB | 3x 260-pin DDR4-3200MHz SO-DIMM with up to 96 GB with ECC (ECC is Supported with Specific SKU)<br>*3rd Socket on Rear Side by Request | 3 x 260-pin DDR4 2400/2133MHz SO-DIMM up to 96GB  | 2 x 260-pin DDR4 SO-DIMM up to 32GB     | 1 x 262-pin DDR5 4800MHz SO-DIMM Supports up to 16GB      |
| 3 x PCIe x1                                               | 1 x PEG x16 (Gen4, 16.0 GT/s) Support dGFX and NVMe Storage<br>8 x PCIe x1 (Gen3, 8.0 GT/s)                                           | 1 x PCIe x16 Gen3<br>8 x PCIe x1                  | 8 x PCIe x1                             | 4 x PCIe x1 Gen3 or 1 x PCIe x4 Gen3 or 2 x PCIe x1 Gen3  |
| 8 x USB 2.0<br>4 x USB 3.0                                | 8 x USB 2.0<br>4 x USB 3.2 Gen2 x1 (10 Gbps)                                                                                          | 8 x USB 2.0<br>4 x USB 3.1                        | 8 x USB 2.0<br>4 x USB 3.0              | 8 x USB2.0, 2 x USB3.2 or 8 x USB2.0, 4 x USB3.2          |
| 2 x SATA III                                              | 4 x SATA III                                                                                                                          | 4 x SATA III                                      | 4 x SATA III                            | 2 x SATA III                                              |
| 1 x UART                                                  | 2 x UART                                                                                                                              | 2 x UART                                          | 2 x UART                                | 2 x UART                                                  |
| 1 x SMBus<br>1 x LPC<br>1 x I²C                           | 1 x SMBus<br>1 x LPC/ (eSPI Default)<br>1 x I²C                                                                                       | 1 x SMBus<br>1 x LPC<br>1 x I²C<br>1 x SPI        | 1 x SMBus<br>1 x LPC<br>1 x I²C         | 1 x SMBus<br>1 x LPC<br>1 x eSPI<br>1 x I²C<br>1 x SPI    |
| Intel® HD Graphics 500                                    | Intel® 11th H Series SoC Processor Integrated                                                                                         | Intel® 8/ 9th SoC Processor Integrated            | Intel® 6th SoC Processor Integrated     | Intel® UHD Graphics                                       |
| VGA, LVDS, DDI                                            | VGA LVDS, DDI                                                                                                                         | VGA, LVDS, DDI                                    | VGA, LVDS, DDI                          | HDMI/ DP, DP/ TypeC, LVDS/ eDP                            |
| Intel® High Definition Audio                              | Intel® High Definition Audio                                                                                                          | Intel® High Definition Audio                      | Intel® High Definition Audio            | Intel® High Definition Audio                              |
| 1 x Intel® I210AT                                         | 1 x Intel® I225LM/IT                                                                                                                  | 1 x Intel® I219LM                                 | 1 x Intel® I219LM                       | 1 x Intel® I226IT                                         |
| +9V ~ +19V                                                | +9V ~ +19V                                                                                                                            | +9V ~ +19V                                        | +9V ~ +19V                              | +9V ~ +19V                                                |
| 0°C ~ 60°C (32°F ~ 140°F)                                 | 0°C ~ 60°C (32°F ~ 140°F) (Standard)<br>Extend: -40°C ~ 75°C (-40°F ~ 167°F) on Request                                               | 0°C ~ 60°C (32°F ~ 140°F)                         | 0°C ~ 60°C (32°F ~ 140°F)               | -40°C ~ 80°C (-40°F ~ 176°F) for Wide Temperature CPU SKU |
| 95 x 95 mm<br>(3.74" x 3.74")                             | 125 x 95 mm<br>(4.92" x 3.74")                                                                                                        | 125 x 95 mm<br>(4.92" x 3.74")                    | 125 x 95 mm<br>(4.92" x 3.74")          | 95 x 95 mm<br>(3.74" x 3.74")                             |
| CE, FCC Class B                                           | CE, FCC Class B                                                                                                                       | CE, FCC Class B                                   | CE, FCC Class B                         | CE, FCC Class B                                           |



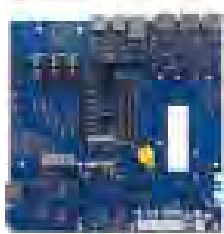
キャリアボード

» Q7 キャリアボード



| Model Number      | REV-Q703 (A/B)                                                                                                                                                                                                                          |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB               | 4 x USB 2.0, 2 x USB 3.0<br>(2 x USB on Board, 2 x USB 3.0/<br>1 x USB External)                                                                                                                                                        |
| SATA              | 2 x SATA (On Board)                                                                                                                                                                                                                     |
| COM Port          | 1 x RS-232                                                                                                                                                                                                                              |
| Video             | 1 x HDMI, 1 x LVDS, 1 x DP, 1 x eDP<br>(1 x LVDS & 1 x eDP on Board)                                                                                                                                                                    |
| Other             | External I/O Connector, 1 x Ethernet<br>1 x SD Socket<br>3 x Audio Phone Jack, Internal I/O<br>Connector<br>1 x GPIO, 1 x PCIe x1, 1 x mPCIe, 1 x SPI<br>1 x SPI, 1 x CAN, 1 x LPC, 1 x JFP<br>1 x PWM CPU Fan Header<br>1 x PWR Header |
| DIO               | 1 x 16bit GPIO                                                                                                                                                                                                                          |
| MIO               | 1 x SD Socket for Version A<br>1 x Micro SD Socket for Version B                                                                                                                                                                        |
| Expansion         | 1 x Mini PCIe Supports SIM Card                                                                                                                                                                                                         |
| Audio Chipset     | ALC892/ WM8962                                                                                                                                                                                                                          |
| Audio Interface   | Mic-in, Line-in, Line-out                                                                                                                                                                                                               |
| Power Requirement | DC +12V                                                                                                                                                                                                                                 |
| Operating Temp.   | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                            |
| Dimension (L x W) | 6.69" x 6.69" (170 x 170 mm)                                                                                                                                                                                                            |
| Certification     | CE, FCC Class B                                                                                                                                                                                                                         |

» COMe Type 6 キャリアボード



| EEV-EX26                                                                                                                                                                           | EEV-EX16-B1                                                                                                      | EEV-EX14                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1 x USB 2.0<br>4 x USB 3.2 Gen2 x1 by 1 x IET Connector<br>on Module<br>2 x USB 4 Type C by 1 x IET Connector<br>on Module (OEM by Request)<br>*Module Board at IO (EEV-EX26 Only) | 4 x USB 2.0<br>4 x USB 3.2 x1                                                                                    | 8 x USB 2.0<br>4 x USB 3.0 (4 USB External)                                                    |
| 4 x SATA III (on Board)                                                                                                                                                            | 4 x SATA III                                                                                                     | 4 x SATA II (On Board)                                                                         |
| N/A                                                                                                                                                                                | N/A                                                                                                              | 1 x RS-232/422/485, 1 x RS-232, 1 x LPT<br>(1 x RS232/422/485 External,<br>1 x RS232 on Board) |
| 4 x Display Port, 1 x VGA, 3 x DP or<br>HDMI by 1 x IET Connector on Module;<br>1 x LVDS , 1 x eDP (on Board)                                                                      | 3 x Display Port, 1 x VGA,<br>3 x HDMI, 1 x LVDS, 1 x eDP                                                        | 1 x Display Port, 1 x VGA, 1 x HDMI<br>1 x LVDS (1 x LVDS on Board)                            |
| 1 x SDIO<br>1 x LAN (Support 2.5G)                                                                                                                                                 | 1 x SDIO<br>1 x LAN (Support 2.5G)                                                                               | 1 x PS2/KB & MS<br>1 x SDIO<br>2 x LAN                                                         |
| 1 x 8bit GPIO                                                                                                                                                                      | 1 x 8bit GPIO                                                                                                    | 1 x 8bit GPIO                                                                                  |
| N/A                                                                                                                                                                                | N/A                                                                                                              | 1 x IrDA                                                                                       |
| 1 x PCI-e Gen4 x16 Slot<br>2 x PCI-e Gen4 x4 Slot                                                                                                                                  | 1 x PCI-e Gen4 x16 Slot<br>2 x PCI-e Gen4 x4 Slot<br>1 x IET, 1 x SDIO/DIO<br>(Optional, Depend on Module Board) | 1 x PCIe x16, 1 x PCIe x4<br>1 x PCIe x1, 1 x Express Card<br>1 x Mini PCIe                    |
| ALC888                                                                                                                                                                             | ALC888                                                                                                           | ALC892                                                                                         |
| Mic-in and Line-out                                                                                                                                                                | Mic-in and Line-out                                                                                              | Mic-in, Line-in and Line-out                                                                   |
| ATX                                                                                                                                                                                | ATX                                                                                                              | AT/ ATX                                                                                        |
| -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                       | 0°C ~ 60°C (32°F ~ 140°F)                                                                                        | 0°C ~ 60°C (32°F ~ 140°F)                                                                      |
| 9.6" x 9.6" (243.84 x 243.84 mm)                                                                                                                                                   | 9.6" x 9.6" (243.84 x 243.84 mm)                                                                                 | 9.6" x 9.6" (243.84 x 243.84 mm)                                                               |
| CE, FCC Class B                                                                                                                                                                    | CE, FCC Class B                                                                                                  | CE, FCC Class B                                                                                |

キャリアボード

» COMe Type 10  
キャリアボード



| EEV-EX15                                                                   |
|----------------------------------------------------------------------------|
| 8 x USB 2.0,<br>2 x USB 3.0 (2 USB External)                               |
| 2 x SATA III (On Board)                                                    |
| N/A                                                                        |
| 1 x Display Port, 1 x HDMI<br>1 x LVDS (1 x LVDS on Board)                 |
| 1 x LAN                                                                    |
| 1 x 8bit GPIO                                                              |
| N/A                                                                        |
| 1 x PCIe x4, 1 x IET<br>1 x SDIO/DIO<br>(Optional, Depend on Module Board) |
| ALC892                                                                     |
| Mic-in and Line-out                                                        |
| ATX                                                                        |
| 0°C ~ 60°C (32°F ~ 140°F)                                                  |
| 6.7" x 6.7" (170 x 170 mm)                                                 |
| CE, FCC Class B                                                            |

» SMARC キャリアボード



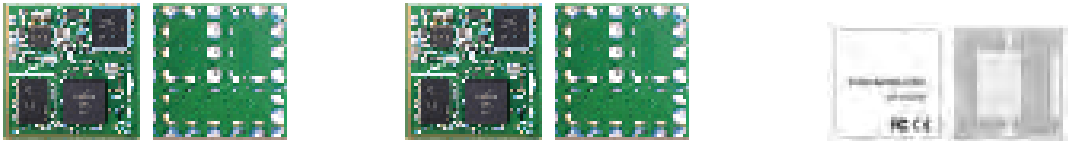
| Model Number           | REV-SA01                                                                                                                                                                                              | REV-SA02                                                                                                                                                                                                                                    | REV-SA03                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External I/O Connector | 1 x HDMI<br>1 x VGA<br>2 x RJ45<br>1 x DB9<br>1 x Mini-USB<br>2 x USB Type A                                                                                                                          | 1 x LAN, 2 x RCA<br>1 x HDMI, 1 x VGA<br>1 x Micro SD Socket<br>1 x Mini USB (OTG)<br>1 x USB Type A 2.0 Double Deck<br>1 x Display Port, 2 x RS232<br>1 x RST Switch, 1 x Power Switch<br>1 x Power LED, 1 x DIP SW                        | 1 x Power Key<br>1 x Reset Key<br>1 x DC Jack<br>1 x USB 2.0 Type A<br>1 x USB Type C<br>1 x Giga Ethernet<br>1 x Headphone<br>1 x Micro SD Socket<br>1 x SIM Socket                                                                                                                                                                                                                                                                                      |
| Internal I/O Connector | 1 x LVDS<br>1 x Backlight<br>1 x SD Socket<br>1 x USB Connector<br>2 x CAN BUS<br>1 x Speaker-out/ Mic-in<br>1 x RS-232<br>1 x GPIO<br>1 x SATA<br>1 x RTC Battery<br>1 x 2 Cell Li Battery Connector | 1 x Camera<br>2 x Speaker<br>1 x D-MIC<br>1 x Mini PCIe (SATA)<br>1 x Mini PCIe (USB)<br>1 x Sim Card<br>1 x GPIO<br>1 x I²C<br>1 x USB2.0<br>1 x PCIe-1<br>1 x LVDS<br>1 x Battery Charger Connect<br>1 x Inverter<br>2 x RS485<br>2 x CAN | 1 x USB 2.0 4P Header<br>1 x Mic Phone 2P Header<br>1 x D-MIC<br>1 x Speaker 2P Header<br>1 x RTC-Battery (CR2032)<br>1 x M.2 Key E for WIFI/ BT<br>1 x M.2 key B for LTE<br>1 x M.2 Key M for SSD (Only for PCIe<br>Switch)<br>1 x BackLight 4P Header<br>1 x I²C Touch Screen Connector<br>1 x MIPI CSI Screen Connector for<br>MIPI Camera (Option)<br>1 x MIPI DSI (Option)<br>1 x LVDS Screen Connector (Default )<br>1 x GPIO 16 bit<br>1 x CAN Bus |
| Power Requirement      | +9V ~ 36V DC-in (REV-SA01-02-A1R)<br>+9V ~ 24V DC-in (REV-SA01-03-A1R)                                                                                                                                | DC +12V                                                                                                                                                                                                                                     | DC +12V                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Operating Temperature  | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                                                                             | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage Temperature    | -20°C ~ 80°C (-40°F ~ 176°F)                                                                                                                                                                          | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Dimension (L x W)      | 146 x 101 mm                                                                                                                                                                                          | 170 x 170 mm                                                                                                                                                                                                                                | 165 x 120 mm                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Weight                 | 0.13 kg                                                                                                                                                                                               | 0.024 kg                                                                                                                                                                                                                                    | 0.024 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Certification          | CE, FCC Class B                                                                                                                                                                                       | CE, FCC Class B                                                                                                                                                                                                                             | CE, FCC Class B                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Software Support       | N/A                                                                                                                                                                                                   | N/A                                                                                                                                                                                                                                         | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

SMARCモジュール



| Model Number           | SMA-IMX8MP                                                                                                                                                                                                               | SMA-3588                                                                                                                                                                                                                                                                                                          | SMA-3568                                                                                                                                                                                                                                                                                                          | SMA-X8I                                                                                                                                                                                                                          | SMA-IMX6 E1                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor              | Quad Cortex®-A53 Processors                                                                                                                                                                                              | RockChip RK3588J Quad-core Cortex-A76 and Quad-core Cortex-A55                                                                                                                                                                                                                                                    | Rock Chip RK3568 Quad-core Cortex-A55                                                                                                                                                                                                                                                                             | NXP i.MX 8M Mini                                                                                                                                                                                                                 | NXP i.MX 6 Dual<br>NXP i.MX 6 Quad Core                                                                                                                                                                                              |
| System Memory          | 2GB/ 4GB LPDDR4                                                                                                                                                                                                          | 2GB/ 4GB/ 8GB LPDDR4                                                                                                                                                                                                                                                                                              | 2GB/ 4GB/ 8GB LPDDR4                                                                                                                                                                                                                                                                                              | 2GB DDR4 (Default)                                                                                                                                                                                                               | 1 GB/ 2GB DDR3                                                                                                                                                                                                                       |
| Storage                | 16GB/ 32GB eMMC                                                                                                                                                                                                          | 16GB eMMC                                                                                                                                                                                                                                                                                                         | 16GB eMMC                                                                                                                                                                                                                                                                                                         | eMMC 16GB                                                                                                                                                                                                                        | eMMC 8GB                                                                                                                                                                                                                             |
| Internal I/O Connector | 2 x CAN/CAN FD<br>1 x EDP<br>1 x HDMI<br>1 x LVDS<br>1 x I <sup>2</sup> S<br>2 x MIPI CSI<br>1 x MIPI DSI<br>1 x PCIe 3.0<br>4 x UART<br>1 x USB (Type C)<br>2 x USB 3.0<br>3 x uSDHC<br>6 x I <sup>2</sup> C<br>3 x SPI | 1 x CAN<br>14 x GPIO<br>4 x I <sup>2</sup> C<br>1 x I <sup>2</sup> S<br>1 x SDIO<br>2 x SPI<br>6 x UART<br>1 x Wifi 802.11 a/b/g/n/ac<br>1 x HDMI<br>1 x MIPI CSI<br>1 x MIPI DSI/LVDS<br>2 x Giga Ethernet<br>1 x PCIe 2.1<br>1 x PCIe 3.0<br>1 x USB 3.0 Type A<br>1 x USB 3.0 Type A OTG<br>2 x USB 2.0 Type B | 1 x CAN<br>14 x GPIO<br>4 x I <sup>2</sup> C<br>1 x I <sup>2</sup> S<br>1 x SDIO<br>2 x SPI<br>6 x UART<br>1 x Wifi 802.11 a/b/g/n/ac<br>1 x HDMI<br>1 x MIPI CSI<br>1 x MIPI DSI/LVDS<br>2 x Giga Ethernet<br>1 x PCIe 2.1<br>1 x PCIe 3.0<br>1 x USB 3.0 Type A<br>1 x USB 3.0 Type A OTG<br>2 x USB 2.0 Type B | 1 x Giga LAN Controller<br>8 x GPIO<br>3 x I <sup>2</sup> C<br>1 x I <sup>2</sup> S<br>1 x LVDS (Default)<br>1 x PCIe<br>1 x MIPI CSI (Option)<br>1 x MIPI DSI (Option)<br>1 x SPI<br>1 x UART<br>4 x USB 2.0<br>1 x USB 2.0 OTG | 2 x CAN<br>12 x GPIO<br>3 x I <sup>2</sup> C<br>1 x JTAG<br>1 x MLB150<br>3 x PCIe (Option)<br>2 x RX/TX (Ser1/3)<br>1 x SATA eMMC<br>1 x SDIO<br>1 x SPDIF<br>2 x SPI<br>2 x UART (Ser0/2)<br>2 x USB 2.0 Port (One OTG)<br>1 x WDT |
| Power Requirement      | 5V                                                                                                                                                                                                                       | 5V                                                                                                                                                                                                                                                                                                                | 5V                                                                                                                                                                                                                                                                                                                | 5V                                                                                                                                                                                                                               | 3V ~ 5.25V                                                                                                                                                                                                                           |
| Operating Temperature  | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                             | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                                                                                      | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                                                                                      | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                     | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                         |
| Storage Temperature    | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                             | 40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                                                                                       | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                                                                                      | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                     | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                         |
| Dimension (L x W)      | 50 x 82 mm                                                                                                                                                                                                               | 82 x 50 mm                                                                                                                                                                                                                                                                                                        | 82 x 50 mm                                                                                                                                                                                                                                                                                                        | 82 x 50 mm                                                                                                                                                                                                                       | 82 x 50 mm                                                                                                                                                                                                                           |
| Weight                 | 0.06 kg                                                                                                                                                                                                                  | 0.06 kg                                                                                                                                                                                                                                                                                                           | 0.06 kg                                                                                                                                                                                                                                                                                                           | 0.06 kg                                                                                                                                                                                                                          | 0.06 kg                                                                                                                                                                                                                              |
| Certification          | CE, FCC, Class B                                                                                                                                                                                                         | CE, FCC, Class B                                                                                                                                                                                                                                                                                                  | CE, FCC, Class B                                                                                                                                                                                                                                                                                                  | CE, FCC Class B                                                                                                                                                                                                                  | CE, FCC Class B                                                                                                                                                                                                                      |
| Software Support       | Android 11                                                                                                                                                                                                               | Linux Debian, Andriod                                                                                                                                                                                                                                                                                             | Linux Debian 11, Andriod 11                                                                                                                                                                                                                                                                                       | Yocto 2.5, Android 10.0                                                                                                                                                                                                          | Android 4.4, Yocto 2.1                                                                                                                                                                                                               |

オープンスタンダードモジュール



| Model Number          | OSM-3568                                                                                                                                                                                                                                                            | OSM-IMX8MM                                                                                                                                                      | OSM-IMX93                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Chipcet               | Rockchip RK3568J                                                                                                                                                                                                                                                    | NXP iMX8M Mini                                                                                                                                                  | NXP i.MX93                                                                                                                                    |
| Processor             | Quad-core Cortex-A55                                                                                                                                                                                                                                                | NXP iMX8M Mini Quad-core Cortex-A53                                                                                                                             | Dual-Core ARM Cortex-A55 + ARM Cotex-M33                                                                                                      |
| Software Support      | Debian11                                                                                                                                                                                                                                                            | Yocto (Kirkstone) 4.0                                                                                                                                           | Yocto (Kirkstone) 4.0                                                                                                                         |
| System Memory         | 2GB                                                                                                                                                                                                                                                                 | 4GB                                                                                                                                                             | 2GB                                                                                                                                           |
| Storage               | 16GB eMMC                                                                                                                                                                                                                                                           | 16GB eMMC                                                                                                                                                       | 16GB eMMC (Optional 8G/ 32G)                                                                                                                  |
| I/O                   | 1 x HDMI Out<br>2 x SDIO (1 x TF Card, 1 x WIFI&BT)<br>2 x USB3.0 (1 x USB Host, 1 x USB OTG)<br>2 x USB Host<br>1 x MIPI-CSI<br>1 x MIPI-DSI<br>1 x PCIe<br>1 x IR<br>2 x CAN<br>1 x SPI<br>1 x Edp<br>2 x UART<br>1 x DC in (USB Type-c)<br>2 x RJ45 10/100/1000M | 2 x SDIO<br>4 x UART<br>4 x I <sup>2</sup> C<br>3 x SAI<br>2 x SPI<br>3 x PWM<br>1 x JTAG<br>29 x GPIO<br>1 x PCIe<br>1 x MIPI-CSI<br>1 x MIPI-DSI<br>1 x RGMII | 1 x MIPI-CSI<br>1 x MIPI-DSI<br>USB 2.0<br>2 x Gigabit Ethernet Controller<br>1 x SD<br>1 x CAN<br>2 x SPI<br>2 x PWM<br>3 x SAI<br>24 x GPIO |
| Power Requirement     | 5V/ 2A                                                                                                                                                                                                                                                              | 5V/ 3A                                                                                                                                                          | 5V/ 3A                                                                                                                                        |
| Operating Temperature | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                                        | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                    | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                  |
| Dimensions            | 45 x 45 mm (Size-L)                                                                                                                                                                                                                                                 | 45 x 45 mm (Size-L)                                                                                                                                             | 30 x 30mm (Size-S)                                                                                                                            |
| Certification         | CE, FCC Class B                                                                                                                                                                                                                                                     | CE, FCC Class B                                                                                                                                                 | CE, FCC Class B                                                                                                                               |

コンパクトで統合されたプラットフォームとなり、信頼性の高い堅牢なデザインとともに、迅速な市場投入ソリューションを提供します。高度な信頼性が求められるアプリケーション向けに、認証済みの堅牢な産業用コンピューティングソリューションを提供します。

# Computing System



## コンパクトコンピューティングシステム

堅牢で完全に統合された超薄型プラットフォーム。簡単にセットアップでき、高度に拡張可能なI/Oインターフェースと高速な通信&データ転送技術を備えており、IoTアプリケーションに最適です。

## モジュラーコンピューティングシステム

Avalueのインテリジェント拡張技術（IET）モジュールは、I/Oのカスタマイズをより迅速かつ柔軟にします。アプリケーションに最適なIETモジュールを選ぶことで、簡単にクイックターンプロトタイプを作成できます。

## 拡張可能コンピューティングシステム

拡張スロットPCは、お客様がサードパーティ製のI/Oを追加し、PCIまたはPCIeの拡張をサポートできるように設計されています。モーションコントロール、産業オートメーションのアプリケーションにおいて、高性能な計算能力を提供します。

## ベアボーンシステム

高度に統合された産業用シャーシ(筐体)と最新のIntelプラットフォームmini-ITXボードを備えたこのベアボーンシステムは、優れた拡張性、長い製品寿命、および完全なカスタマイズサービスを提供します。



## ラックマウントシステム

Avalueの産業用ラックマウントPCは、1Uから4Uまでのラックマウントサイズで提供され、非常に堅牢で多用途です。最大限のパフォーマンスで厳しい仕様要求にも対応可能です。

## ARMシステム

ARM搭載システムシリーズは、低消費電力でありながら高いパフォーマンスを発揮し、産業用アプリケーション向けに最適化されています。

## 交通&物流用途向けシステム

車両、公共交通機関、船舶向けに設計されています。低消費電力で高効率なソリューションを提供し、大量のデータを高速で・低遅延で伝送することができます。産業グレードのプラットフォームは、リアルタイムの輸送管理においてセキュリティと安定性を強化します。

## エッジAIプラットフォーム

高性能とエンドツーエンドの接続性を備えたAvalue Edge AIシステムは、市場への効率的な進出を実現します。

# コンパクト コンピューティングシステム



| Model Number          | EPS-RPR                                                                                                                                                                                             | EPS-RPS                                                                                                                                                                                             | EPS-ADS                                                                                                                                                                                             | ACS10-TGU                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Board                 | EBM-ADS                                                                                                                                                                                             | EBM-ADS                                                                                                                                                                                             | EBM-ADS                                                                                                                                                                                             | ECM-TGUC                                                                                                |
| Processor             | Intel® Core™ i7-14700T, i5-14500T                                                                                                                                                                   | Intel® Core™ i9-13900TE, i7-13700TE, i5-13500TE, i3-13100TE                                                                                                                                         | Intel® Core™ i9-12900TE, i7-12700TE, i5-12500TE, i3-12100TE<br>Intel® Pentium G7400TE<br>Intel® Celeron G6900TE                                                                                     | Intel® Core™ i5-1135G7<br>Intel® Core™ i3-1115G4                                                        |
| System Chipset        | Intel® H610E Express Chipset                                                                                                                                                                        | Intel® H610E Express Chipset<br>Intel® Q670E Express Chipset                                                                                                                                        | Intel® H610E Express Chipset<br>Intel® Q670E Express Chipset                                                                                                                                        | N/A                                                                                                     |
| System Memory         | 2 DIMM Dual Channel DDR5 4800MHz up to 64GB                                                                                                                                                         | 2 DIMM Dual Channel DDR5 4800MHz up to 64GB                                                                                                                                                         | 2 DIMM Dual Channel DDR5 4800MHz up to 64GB                                                                                                                                                         | 1 x 260-Pin SO-DIMM Socket, up to 32GB DDR4 3200MHz                                                     |
| Expansion             | 1 x mPCIe (Default)<br>1 x M.2 Key-B 2242/3042/3052 Support SATA3/ PCIeIII x1/ USB 2.0/ USB 3.2 Gen.1 and Internal Nano SIM Slot1<br>1 x M.2 Key-E 2230 PCIeIII x 1/ USB 2.0 for Wi-Fi & BT Modules | 1 x mPCIe (Default)<br>1 x M.2 Key-B 2242/3042/3052 Support SATA3/ PCIeIII x1/ USB 2.0/ USB 3.2 Gen.1 and Internal Nano SIM Slot1<br>1 x M.2 Key-E 2230 PCIeIII x 1/ USB 2.0 for Wi-Fi & BT Modules | 1 x mPCIe (Default)<br>1 x M.2 Key-B 2242/3042/3052 Support SATA3/ PCIeIII x1/ USB 2.0/ USB 3.2 Gen.1 and Internal Nano SIM Slot1<br>1 x M.2 Key-E 2230 PCIeIII x 1/ USB 2.0 for Wi-Fi & BT Modules | 1 x M.2 Key-E 2230 (PCIe, USB 2.0)<br>1 x M.2 Key-B 2242/3052 with 1 x SIM Slot (SATA, USB3.2, USB 2.0) |
| Storage               | 1 x 2.5" Drive Bay<br>1 x M.2 Key-B 2242, Support SATA (Share with Expansion Slot)                                                                                                                  | 1 x 2.5" Drive Bay<br>1 x M.2 Key-M 2242/2280, Support PCIe Gen IV x 4 (NVMe SSD), RAID 0/1 (0670 Only)<br>1 x M.2 Key-B 2242, Support SATA (Share with Expansion Slot)                             | 1 x 2.5" Drive Bay<br>1 x M.2 Key-M 2242/2280, Support PCIe Gen IV x 4 (NVMe SSD), RAID 0/1 (0670 Only)<br>1 x M.2 Key-B 2242, Support SATA (Share with Expansion Slot)                             | 1 x M.2 Key-B 2242 (SATA3)<br>1 x M.2 Key-M 2280 NVMe (PCIe Gen4 x 4)                                   |
| USB                   | 2 x USB 2.0, 6 x USB 3.2                                                                                                                                                                            | 2 x USB 2.0, 6 x USB 3.2                                                                                                                                                                            | 2 x USB 2.0, 6 x USB 3.2                                                                                                                                                                            | 3 x USB 3.2 Gen.2<br>3 x USB 2.0                                                                        |
| COM Port              | 2 x RS-232<br>4 x RS-232/422/485                                                                                                                                                                    | 2 x RS-232<br>4 x RS-232/422/485                                                                                                                                                                    | 2 x RS-232<br>4 x RS-232/422/485                                                                                                                                                                    | 1 x RS-232/422/485<br>1 x RS-232                                                                        |
| Display Chipset       | Intel® 14th Generation CPU Integrated                                                                                                                                                               | Intel® 13th Generation CPU Integrated                                                                                                                                                               | Intel® 12th Generation CPU Integrated                                                                                                                                                               | Intel® Iris® Xe Graphics (i5-1135G7)<br>Intel® UHD Graphics for 11th Gen Intel® Processors (i3-1115G4)  |
| Display Resolution    | HDMI 2.0b: 4096 x 2304 @ 60Hz<br>DP++ 1.4: 4096 x 2304 @ 60Hz                                                                                                                                       | HDMI 2.0b: 4096 x 2304 @ 60Hz<br>DP++ 1.4: 4096 x 2304 @ 60Hz                                                                                                                                       | HDMI 2.0b: 4096 x 2304 @ 60Hz<br>DP++ 1.4: 4096 x 2304 @ 60Hz                                                                                                                                       | DP++ 1.4: 4096 x 2304 @ 60Hz                                                                            |
| Audio Chipset         | Realtek Audio Code                                                                                                                                                                                  | Realtek Audio Code                                                                                                                                                                                  | Realtek Audio Code                                                                                                                                                                                  | Realtek Audio Code                                                                                      |
| Audio Interface       | 1 x Mic-in<br>1 x Line-out                                                                                                                                                                          | 1 x Mic-in<br>1 x Line-out                                                                                                                                                                          | 1 x Mic-in<br>1 x Line-out                                                                                                                                                                          | 1 x Mic-in<br>1 x Line-out                                                                              |
| Ethernet Chipset      | 1 x Intel® I219-LM<br>1 x Intel® I226-LM                                                                                                                                                            | 1 x Intel® I219-LM<br>1 x Intel® I226-LM                                                                                                                                                            | 1 x Intel® I219-LM<br>1 x Intel® I226-LM                                                                                                                                                            | 1 x Intel® I219LM<br>1 x Intel® I225-V                                                                  |
| Ethernet Interface    | 2 x RJ45                                                                                                                                                                                            | 2 x RJ45                                                                                                                                                                                            | 2 x RJ45                                                                                                                                                                                            | 2 x RJ45                                                                                                |
| Power Connector       | 5-Pin Terminal Block                                                                                                                                                                                | 5-Pin Terminal Block                                                                                                                                                                                | 5-Pin Terminal Block                                                                                                                                                                                | Lockable DC Jack                                                                                        |
| Power Requirement     | DC in Typical 12V/ 24V, Wide Voltage                                                                                                                                                                | DC in Typical 12V/ 24V, Wide Voltage                                                                                                                                                                | DC in Typical 12V/ 24V, Wide Voltage                                                                                                                                                                | +12V                                                                                                    |
| ACPI                  | Single Power ATX Support<br>S0, S1, S3, S4, S5; ACPI 5.0 Compliant                                                                                                                                  | Single Power ATX Support<br>S0, S1, S3, S4, S5; ACPI 5.0 Compliant                                                                                                                                  | Single Power ATX Support<br>S0, S1, S3, S4, S5; ACPI 5.0 Compliant                                                                                                                                  | Single Power ATX Support<br>S0, S1, S3, S4, S5; ACPI 5.0 Compliant                                      |
| Power Mode            | AT/ ATX (ATX is Default Setting)                                                                                                                                                                    | AT/ ATX (ATX is Default Setting)                                                                                                                                                                    | AT/ ATX (ATX is Default Setting)                                                                                                                                                                    | AT/ ATX (ATX is Default Setting)                                                                        |
| Dimension (L x W x H) | 215.8 x 202.5 x 75 mm                                                                                                                                                                               | 215.8 x 202.5 x 75 mm                                                                                                                                                                               | 215.8 x 202.5 x 75 mm                                                                                                                                                                               | 188 x 120 x 48 mm                                                                                       |
| Operating Temp.       | With Extended Temperature Peripherals w/ Air Flow:<br>-10°C ~ 55°C (14°F ~ 131°F)                                                                                                                   | With Extended Temperature Peripherals w/ Air Flow:<br>-10°C ~ 55°C (14°F ~ 131°F)                                                                                                                   | With Extended Temperature Peripherals w/ Air Flow:<br>-10°C ~ 55°C (14°F ~ 131°F)                                                                                                                   | 0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s Air Flow                                                          |
| Certification         | CE, FCC Class B                                                                                                                                                                                     | CE, FCC Class B                                                                                                                                                                                     | CE, FCC Class B                                                                                                                                                                                     | CE, FCC Class A, UKCA                                                                                   |



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| Model Number          | EPC-RPU                                                                                                    | EPC-EHL                                                                                                                                                                                            | EPC-EHL-8COM                                                                                                                                                                                       |
|-----------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Board                 | ECM-RPL                                                                                                    | ECM-EHL                                                                                                                                                                                            | ECM-EHL                                                                                                                                                                                            |
| Processor             | 13th Gen Core™ i7/i5/i3 BGA Processor                                                                      | Intel® ATOM® Processor x6413E Processor                                                                                                                                                            | Intel® ATOM® Processor x6413E Processor                                                                                                                                                            |
| System Memory         | 1 x 262P SO-DIMM Socket<br>(Capacity Max. up to 32GB DDR5 4800)                                            | 1 x 260-Pin SO-DIMM Socket,<br>Max. up to 32GB DDR4 3200MHz                                                                                                                                        | 1 x 260-Pin SO-DIMM Socket,<br>Max. up to 32GB DDR4 3200MHz                                                                                                                                        |
| Expansion             | 1 x M.2 Key-B 2242/3042/3052 w/SIM Slot<br>1 x M.2 Key-M 2280 (PCIe Gen 4x4)<br>1 x M.2 Key-E 2230 (CNVi)  | 1 x M.2 (Key-B, 2242/3042, w/ SIM Slot)<br>1 x M.2 (Key-E, 2230)                                                                                                                                   | 1 x M.2 (Key-B, 2242/3042, w/ SIM Slot)<br>1 x M.2 (Key-E, 2230)                                                                                                                                   |
| Storage               | 1 x 2.5" Drive Bay (7mm)<br>1 x M.2 Key-B 2242 SSD (SATA3)<br>1 x M.2 Key-M 2242/2280 NVMe (PCIe Gen 4x4)  | 1 x 2.5" Drive Bay (7mm)<br>1 x M.2 (Key-B, 2242)                                                                                                                                                  | 1 x 2.5" Drive Bay (7mm)<br>1 x M.2 (Key-B, 2242)                                                                                                                                                  |
| USB                   | 3 x USB 2.0, 3 x USB 3.2 Gen2 (Type A)<br>1 x USB 3.2 Gen 2 (Type C)                                       | 2 x USB 3.1, 2 x USB2.0<br>2 x USB 3.1, 6 x USB2.0 (EPC-EHL-8USB)                                                                                                                                  | 2 x USB 3.1, 2 x USB2.0<br>2 x USB 3.1, 6 x USB2.0 (EPC-EHL-8USB)                                                                                                                                  |
| COM Port              | 2 x RS232                                                                                                  | 8 x RS232 (EPC-EHL-8COM)<br>4 x RS232 (EPC-EHL-8USB)<br>2 x RS232 (EPC-EHL-4LAN)                                                                                                                   | 8 x RS232 (EPC-EHL-8COM)<br>4 x RS232 (EPC-EHL-8USB)<br>2 x RS232 (EPC-EHL-4LAN)                                                                                                                   |
| Other                 | 6 x Antenna Mounting with Dust Protection Cover                                                            | USB/ LAN 2 x Antenna Mounting with Dust Protection Cover (EPC-EHL)<br>4 x Antenna Mounting with Dust Protection Cover (EPC-EHL-8COM/ 8USB/ 4LAN)                                                   | USB/ LAN 2 x Antenna Mounting with Dust Protection Cover (EPC-EHL)<br>4 x Antenna Mounting with Dust Protection Cover (EPC-EHL-8COM/ 8USB/ 4LAN)                                                   |
| Display Chipset       | Intel® Iris® Xe Graphics Eligible                                                                          | Intel® UHD Graphics for 10th Gen Intel® Processors                                                                                                                                                 | Intel® UHD Graphics for 10th Gen Intel® Processors                                                                                                                                                 |
| Resolution            | 1 x HDMI 2.0b: 4096 x 2160 @ 60Hz<br>1 x DP 2.1: 7680 x 4320 @ 60Hz<br>1 x DP (Type C): 5120 x 3200 @ 60Hz | 1 x HDMI 2.0b: 4096 x 2160 @ 60Hz<br>1 x DP 1.4a: 4096 x 2160 @ 60Hz                                                                                                                               | 1 x HDMI 2.0b: 4096 x 2160 @ 60Hz<br>1 x DP 1.4a: 4096 x 2160 @ 60Hz                                                                                                                               |
| Audio Chipset         | Realtek Audio Code                                                                                         | Realtek Audio Code                                                                                                                                                                                 | Realtek Audio Code                                                                                                                                                                                 |
| Audio Interface       | 1 x Line-out, 1 x Mic-in                                                                                   | 1 x Line-out, 1 x Mic-in                                                                                                                                                                           | 1 x Line-out, 1 x Mic-in                                                                                                                                                                           |
| Ethernet Chipset      | 2 x Intel® I226LM                                                                                          | 2 x Intel® I226-IT<br>4 x Intel® I226-IT (EPC-EHL-4LAN)                                                                                                                                            | 2 x Intel® I226-IT<br>4 x Intel® I226-IT (EPC-EHL-4LAN)                                                                                                                                            |
| Ethernet Interface    | 2 x RJ45                                                                                                   | 2 x RJ45, 4 x RJ45 (EPC-EHL-4LAN)                                                                                                                                                                  | 2 x RJ45, 4 x RJ45 (EPC-EHL-4LAN)                                                                                                                                                                  |
| Power Connector       | Lockable DC Jack                                                                                           | Lockable DC Jack                                                                                                                                                                                   | Lockable DC Jack                                                                                                                                                                                   |
| Power Requirement     | +12V/ +24V                                                                                                 | +12V/ +24V                                                                                                                                                                                         | +12V/ +24V                                                                                                                                                                                         |
| ACPI                  | Single Power ATX Support S0, S3, S4, S5;<br>ACPI 5.0 Compliant                                             | Single Power ATX Support S0, S3, S4, S5;<br>ACPI 5.0 Compliant                                                                                                                                     | Single Power ATX Support S0, S3, S4, S5;<br>ACPI 5.0 Compliant                                                                                                                                     |
| Power Mode            | AT/ ATX (ATX is Default Setting)                                                                           | AT/ ATX (ATX is Default Setting)                                                                                                                                                                   | AT/ ATX (ATX is Default Setting)                                                                                                                                                                   |
| Adapter               | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter                     | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter                                                                                                             | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter                                                                                                             |
| Construction          | Aluminum + Metal                                                                                           | Aluminum + Metal                                                                                                                                                                                   | Aluminum + Metal                                                                                                                                                                                   |
| Dimension (L x W x H) | 6.97" x 4.84" x 2.17" (177 x 123 x 55 mm)                                                                  | 6.97" x 4.84" x 2.2" (177 x 123 x 65mm)                                                                                                                                                            | 6.97" x 4.84" x 2.2" (177 x 123 x 65mm)                                                                                                                                                            |
| Operating Temp.       | With Extended Temp.<br>Peripherals w/ Air Flow:-10°C ~ 50°C (32°F ~ 122°F) with Air Flow                   | With Extended Temp. Peripherals w/ Air Flow:<br>-40°C ~ 70°C (-40°F ~ 158°F)<br>(EPC-EHL/ EPC-EHL-8COM)<br>-40°C ~ 60°C (-40°F ~ 140°F)(EPC-EHL-8USB)<br>-10°C ~ 40°C (14°F ~ 104°F)(EPC-EHL-4LAN) | With Extended Temp. Peripherals w/ Air Flow:<br>-40°C ~ 70°C (-40°F ~ 158°F)<br>(EPC-EHL/ EPC-EHL-8COM)<br>-40°C ~ 60°C (-40°F ~ 140°F)(EPC-EHL-8USB)<br>-10°C ~ 40°C (14°F ~ 104°F)(EPC-EHL-4LAN) |
| Certification         | CE, FCC Class B                                                                                            | CE, FCC Class B                                                                                                                                                                                    | CE, FCC Class B                                                                                                                                                                                    |

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| EPC-EHL-8USB                                                                                                                                                                                       | EPC-EHL-4LAN                                                                                                                                                                                       | EPC-WHL                                                                                                                                                                                            | EPC-TGU                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| ECM-EHL                                                                                                                                                                                            | ECM-EHL                                                                                                                                                                                            | ECM-WHL                                                                                                                                                                                            | ECM-TGU                                                                                        |
| Intel® ATOM® Processor x6413E Processor                                                                                                                                                            | Intel® ATOM® Processor x6413E Processor                                                                                                                                                            | 8th Generation Intel® Core™ i7/i5/i3/ Celeron® Processor                                                                                                                                           | 11th Generation Intel® Core™ i7/i5/i3/ Celeron® Processor                                      |
| 1 x 260-Pin SO-DIMM Socket,<br>Max. up to 32GB DDR4 3200MHz                                                                                                                                        | 1 x 260-Pin SO-DIMM Socket,<br>Max. up to 32GB DDR4 3200MHz                                                                                                                                        | 2 x 260-Pin DDR4 2400MHz SO-DIMM Socket<br>up to 64GB                                                                                                                                              | 1 x 260-Pin SO-DIMM Socket,<br>Max. up to 32GB DDR4 3200MHz                                    |
| 1 x M.2 (Key-B, 2242/3042, w/ SIM Slot)<br>1 x M.2 (Key-E, 2230)                                                                                                                                   | 1 x M.2 (Key-B, 2242/3042, w/ SIM Slot)<br>1 x M.2 (Key-E, 2230)                                                                                                                                   | 1 x M.2 (Key-B, 2242/3042, w/ SIM Slot)<br>1 x M.2 (Key-E, 2230, CNVi)                                                                                                                             | 1 x M.2 (Key-M, 2242)<br>1 x M.2 (Key-B, 2242/3042/3052, w/ SIM Slot)<br>1 x M.2 (Key-E, 2230) |
| 1 x 2.5" Drive Bay (7mm)<br>1 x M.2 (Key-B, 2242)                                                                                                                                                  | 1 x 2.5" Drive Bay (7mm)<br>1 x M.2 (Key-B, 2242)                                                                                                                                                  | 1 x 2.5" Drive Bay (7 mm)<br>1 x M.2 (Key-B, 2242)                                                                                                                                                 | 1 x 2.5" Drive Bay (7 mm)<br>1 x M.2 (Key-M, 2242, NVMe)<br>1 x M.2 (Key-B, 2242)              |
| 2 x USB 3.1, 2 x USB2.0<br>2 x USB 3.1, 6 x USB2.0 (EPC-EHL-8USB)                                                                                                                                  | 2 x USB 3.1, 2 x USB2.0<br>2 x USB 3.1, 6 x USB2.0 (EPC-EHL-8USB)                                                                                                                                  | 4 x USB 3.1                                                                                                                                                                                        | 4 x USB 3.1 Gen.2<br>2 x USB 2.0                                                               |
| 8 x RS232 (EPC-EHL-8COM)<br>4 x RS232 (EPC-EHL-8USB)<br>2 x RS232 (EPC-EHL-4LAN)                                                                                                                   | 8 x RS232 (EPC-EHL-8COM)<br>4 x RS232 (EPC-EHL-8USB)<br>2 x RS232 (EPC-EHL-4LAN)                                                                                                                   | 1 x RS232 (Factory Option)                                                                                                                                                                         | 2 x RS232/422/485 (BIOS)                                                                       |
| USB/ LAN 2 x Antenna Mounting with Dust Protection Cover (EPC-EHL)<br>4 x Antenna Mounting with Dust Protection Cover (EPC-EHL-8COM/ 8USB/ 4LAN)                                                   | USB/ LAN 2 x Antenna Mounting with Dust Protection Cover (EPC-EHL)<br>4 x Antenna Mounting with Dust Protection Cover (EPC-EHL-8COM/ 8USB/ 4LAN)                                                   | 2 x Antenna Mounting with Dust Protection Cover                                                                                                                                                    | 2 x Antenna Mounting with Dust Protection Cover                                                |
| Intel® UHD Graphics for 10th Gen Intel® Processors                                                                                                                                                 | Intel® UHD Graphics for 10th Gen Intel® Processors                                                                                                                                                 | Intel® UHD Graphics 620 (i7/i5/i3)<br>Intel® UHD Graphics 610 (Celeron)                                                                                                                            | Intel® Iris® Xe Graphics (i7/i5)<br>Intel® Iris® UHD Graphics (i3/ Celeron)                    |
| 1 x HDMI 2.0b: 4096 x 2160 @ 60Hz<br>1 x DP 1.4a: 4096 x 2160 @ 60Hz                                                                                                                               | 1 x HDMI 2.0b: 4096 x 2160 @ 60Hz<br>1 x DP 1.4a: 4096 x 2160 @ 60Hz                                                                                                                               | 2 x HDMI 1.4: 4096 x 2160 @ 24Hz                                                                                                                                                                   | DP++ 1.4a: 4096 x 2304 @ 60Hz                                                                  |
| Realtek Audio Code                                                                                                                                                                                 | Realtek Audio Code                                                                                                                                                                                 | Realtek Audio Code                                                                                                                                                                                 | Realtek Audio Code                                                                             |
| 1 x Line-out, 1 x Mic-in                                                                                                                                                                           | 1 x Line-out, 1 x Mic-in                                                                                                                                                                           | 1 x Line-out, 1 x Mic-in                                                                                                                                                                           | 1 x Combo Jack (Mic-in + Line-out)                                                             |
| 2 x Intel® I226-IT<br>4 x Intel® I226-IT (EPC-EHL-4LAN)                                                                                                                                            | 2 x Intel® I226-IT<br>4 x Intel® I226-IT (EPC-EHL-4LAN)                                                                                                                                            | 1 x Intel® I210AT<br>1 x Intel® I219LM                                                                                                                                                             | 2 x Intel® I226-LM                                                                             |
| 2 x RJ45, 4 x RJ45 (EPC-EHL-4LAN)                                                                                                                                                                  | 2 x RJ45, 4 x RJ45 (EPC-EHL-4LAN)                                                                                                                                                                  | 2 x RJ45                                                                                                                                                                                           | 2 x RJ45                                                                                       |
| Lockable DC Jack                                                                                                                                                                                   | Lockable DC Jack                                                                                                                                                                                   | Lockable DC Jack                                                                                                                                                                                   | Lockable DC Jack                                                                               |
| +12V/ +24V                                                                                                                                                                                         | +12V/ +24V                                                                                                                                                                                         | +12V                                                                                                                                                                                               | +12V                                                                                           |
| Single Power ATX Support S0, S3, S4, S5;<br>ACPI 5.0 Compliant                                                                                                                                     | Single Power ATX Support S0, S3, S4, S5;<br>ACPI 5.0 Compliant                                                                                                                                     | Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant                                                                                                                                         | Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant                                     |
| AT/ ATX (ATX is Default Setting)                                                                                                                                                                   | AT/ ATX (ATX is Default Setting)                                                                                                                                                                   | AT/ ATX (ATX is Default Setting)                                                                                                                                                                   | AT/ ATX (ATX is Default Setting)                                                               |
| Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter                                                                                                             | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter                                                                                                             | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 120W Adapter (12V @ 10A Adapter) AC-DC Adapter                                                                                                           | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 120W Adapter (12V @ 10A Adapter) AC-DC Adapter       |
| Aluminum + Metal                                                                                                                                                                                   | Aluminum + Metal                                                                                                                                                                                   | Aluminum + Metal                                                                                                                                                                                   | Aluminum + Metal                                                                               |
| 6.97" x 4.84" x 2.2" (177 x 123 x 65mm)                                                                                                                                                            | 6.97" x 4.84" x 2.2" (177 x 123 x 65mm)                                                                                                                                                            | 6.97" x 4.84" x 2.17" (177 x 123 x 55mm)                                                                                                                                                           | 6.97" x 4.84" x 2.17" (177 x 123 x 55mm)                                                       |
| With Extended Temp. Peripherals w/ Air Flow:<br>-40°C ~ 70°C (-40°F ~ 158°F)<br>(EPC-EHL/ EPC-EHL-8COM)<br>-40°C ~ 60°C (-40°F ~ 140°F)(EPC-EHL-8USB)<br>-10°C ~ 40°C (14°F ~ 104°F)(EPC-EHL-4LAN) | With Extended Temp. Peripherals w/ Air Flow:<br>-40°C ~ 70°C (-40°F ~ 158°F)<br>(EPC-EHL/ EPC-EHL-8COM)<br>-40°C ~ 60°C (-40°F ~ 140°F)(EPC-EHL-8USB)<br>-10°C ~ 40°C (14°F ~ 104°F)(EPC-EHL-4LAN) | With Extended Temp. Peripherals w/ Air Flow:<br>-40°C ~ 70°C (-40°F ~ 158°F)<br>(EPC-EHL/ EPC-EHL-8COM)<br>-40°C ~ 60°C (-40°F ~ 140°F)(EPC-EHL-8USB)<br>-10°C ~ 40°C (14°F ~ 104°F)(EPC-EHL-4LAN) | With Extended Temp. Peripherals w/ Air Flow:<br>-10°C ~ 40°C (14°F ~ 104°F)                    |
| CE, FCC Class B                                                                                                                                                                                    | CE, FCC Class B                                                                                                                                                                                    | CE, FCC Class B                                                                                                                                                                                    | CE, FCC Class B                                                                                |



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| Model Number          | NUC-RPU                                                                                                                                                  | NUC-TGU                                                                                                                           | NUC-EHL                                                                                                                               |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Processor             | 13th Generation Intel® Core™ i7/i5/i3 BGA Processor                                                                                                      | 11th Generation Intel® Core™ i7/ i5/ i3 BGA Processor                                                                             | Intel® Celeron® J6412 Processor                                                                                                       |
| System Memory         | 1 x 262-Pin SO-DIMM Socket Max. up to 32GB DDR5 4800MHz                                                                                                  | 1 x 260-pin SODIMM socket Max. up to 64GB DDR4 3200 MT/s                                                                          | 1 x 260-pin SODIMM Socket Max. up to 64GB DDR4 3200 MT/s                                                                              |
| Expansion             | 1 x M.2 Key-E 2230 (PCIe, USB 2.0)<br>1 x M.2 Key-B 2242/3042/3052 with Internal SIM Slot (PCIe, SATA, USB 3.0, USB 2.0)<br>1 x M.2 Key-M 2280 (PCIe4x4) | 1 x M.2 (Key-M, 2280)<br>1 x M.2 (Key-B, 2242/3024/3052, w/SIM Slot)<br>1 x M.2 (Key-E 2230)                                      | 1 x M.2 (Key-B, 2242/3042, w/ SIM Slot)<br>1 x M.2 (Key-B, 2242)<br>1 x M.2 (Key-E, 2230)                                             |
| Storage               | 1 x M.2 Key-M 2280 NVMe<br>1 x M.2 Key-B 2242 SSD                                                                                                        | 1 x M.2 (Key-M, 2280, NVMe)<br>1 x M.2 (Key-B, 2242)                                                                              | 1 x M.2 (Key-B, 2242)                                                                                                                 |
| USB                   | 4 x USB 3.2 Gen 2<br>2 x USB 3.2 Gen1<br>2 x USB 2.0                                                                                                     | 4 x USB 3.2 Gen.2, 2 x USB 2.0                                                                                                    | 4 x USB 3.2 Gen.2 , 2 x USB 2.0                                                                                                       |
| COM Port              | 2 x RS-232/422/485 (BIOS)                                                                                                                                | 2 x RS-232/422/485 (BIOS)                                                                                                         | 2 x RS-232/422/485 (BIOS)                                                                                                             |
| Other                 | 1 x Power on/off Button w/ LED<br>1 x LED for Storage, WLAN, WWLAN<br>1 x Kensington Lock                                                                | 1 x Power on/off Button w/ LED<br>1 x LED for Storage/ WLAN/ WWLAN<br>4 x Antenna Mounting with Dust Cover<br>1 x Kensington Lock | 1 x Power on/off Button w/ LED<br>1 x Storage LED<br>4 x Antenna Mounting with Dust Cover<br>1 x Kensington Lock<br>1 x Micro SD Slot |
| Display               | 4 x HDMI 2.0b: Max. Resolution 4096 x 2304 @ 60Hz                                                                                                        | 2 x HDMI 2.0b: Max. Resolution 4096 x 2304 @ 60Hz                                                                                 | 2 x HDMI 2.0b: 4096 x 2304 @ 60Hz                                                                                                     |
| Audio                 | Realtek Audio Code<br>1 x Mic-in, 1 x Line-out                                                                                                           | Realtek Audio Code<br>1 x Mic-in, 1 x Line-out                                                                                    | Realtek Audio Code<br>1 x Mic-in, 1 x Line-out                                                                                        |
| Ethernet              | 1 x Intel I226V, 1 x Intel I219LM                                                                                                                        | 1 x Intel I225LM, 1 x Intel I219LM                                                                                                | 2 x Intel I225LM                                                                                                                      |
| Power Connector       | Lockable DC Jack                                                                                                                                         | Lockable DC Jack                                                                                                                  | Lockable DC Jack                                                                                                                      |
| Power Requirement     | +12V                                                                                                                                                     | +12V                                                                                                                              | +12V                                                                                                                                  |
| Power Mode            | ATX                                                                                                                                                      | ATX                                                                                                                               | ATX                                                                                                                                   |
| Adapter               | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 120W Adapter (12V @ 10A)                                                                                       | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 120W Adapter (12V @ 10A)                                                                | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 120W Adapter (12V @ 10A)                                                                    |
| Operating Temperature | With Extended Temperature Peripherals<br>w/ Air Flow: 0°C ~ 50°C (32°F ~ 122°F)                                                                          | With Extended Temperature Peripherals<br>w/ Air Flow: 0°C ~ 50°C (32°F ~ 122°F)                                                   | With Extended Temperature Peripherals<br>w/ Air Flow: 0°C ~ 60°C (14°F ~ 122°F)                                                       |
| Construction          | Aluminum + Metal                                                                                                                                         | Aluminum + Metal                                                                                                                  | Aluminum + Metal                                                                                                                      |
| Mounting Kit          | Stand/ Din Rail/ VESA                                                                                                                                    | Stand/ Din Rail/ VESA                                                                                                             | Stand/ Din Rail/ VESA                                                                                                                 |
| Dimension (L x W x H) | 6.85" x 4.92" x 1.52"<br>(174 x 125x 38.7mm)                                                                                                             | 6.69" x 4.92" x 1.42"<br>(170 x 125 x 36 mm)                                                                                      | 6.69" x 4.92" x 1.42"<br>(170 x 125 x 36 mm)                                                                                          |
| Weight                | 0.85 kg                                                                                                                                                  | 1 kg                                                                                                                              | 1 kg                                                                                                                                  |
| Certification         | CE, FCC Class B                                                                                                                                          | CE, FCC Class B                                                                                                                   | CE, FCC Class B                                                                                                                       |

コンパクト コンピューティングシステム



| Model Number          | NUC-ADN                                                                                   | NUC-APL                                                                                                                     | NUC-APL-Slim                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor             | Intel® Processor N97                                                                      | Intel® Celeron® J3455/ N3350 Processor                                                                                      | Intel® Celeron® J3455/ N3350 Processor                                                                                                                                                               |
| System Memory         | 1 x 262-pin SODIMM Socket Max. up to 16GB DDR5 4800 MHz                                   | 1 x 204-pin SO-DIMM Socket, Max. up to 8GB DDR3L 1866MHz                                                                    | 1 x 204-pin SO-DIMM Socket, Max. up to 8GB DDR3L 1866MHz                                                                                                                                             |
| Expansion             | 1 x M.2 (Key-E, 2230)                                                                     | 1 x M.2 (Key-B, 2242/3042, w/ SIM Slot)<br>1 x M.2 (Key-E, 2230)                                                            | 1 x M.2 (Key-B, 2242/3042)<br>1 x M.2 (Key-E, 2230)                                                                                                                                                  |
| Storage               | 1 x 2.5" Drive Bay (7 mm)                                                                 | 1 x 2.5" Drive Bay (7 mm)<br>1 x M.2 (Key-B,2242)                                                                           | 1 x M.2 (Key-B,2242)                                                                                                                                                                                 |
| USB                   | 4 x USB 3.2 Gen.2 (Type A)<br>1 x USB3.2 Gen 2 (Type C)                                   | 4 x USB 3.0 (5Gbps)                                                                                                         | 4 x USB 3.0 (5Gbps)                                                                                                                                                                                  |
| COM Port              | 1 x RS-232/422/485 (BIOS)<br>1 x RS-232                                                   | 1 x RS-232/422/485 (BIOS & Cable)<br>1 x RS-232                                                                             | 1 x RS-232/422/485 (BIOS & Cable)                                                                                                                                                                    |
| Other                 | 1 x Power on/off Button w/ LED<br>1 x Storage LED<br>2 x Antenna Mounting with Dust Cover | 1 x Power on/off Button w/ LED<br>1 x Storage LED<br>2 x Antenna Mounting with Dust Cover                                   | 1 x Power on/off Button w/ LED<br>1 x Storage LED<br>2 x Antenna Mounting with Dust Cover                                                                                                            |
| Display               | 2 x HDMI 2.0b: 4096 x 2160 @ 60Hz                                                         | 2 x HDMI 1.4b: Max. Resolution 3840 x 2160 @ 30Hz<br>1 x DP (DVI-I/ VGA Factory Option): Max. Resolution 1920 x 1080 @ 60Hz | 2 x HDMI 1.4b: Max. Resolution 3840 x 2160 @ 30Hz<br>*1 x DP/ DVI-I/ VGA (Factory Option): Max. Resolution 1920 x 1080 @ 60Hz<br>*DP/ DVI-I/ VGA is an Option which will Replace the Location of COM |
| Audio                 | Realtek Audio Code<br>1 x Audio Jack (Mic-in + Line-out)                                  | Realtek Audio Code<br>1 x Audio Jack (Mic-in + Line-out Combo)                                                              | Realtek Audio Code<br>1 x Audio Jack (Mic-in + Line-out Combo)                                                                                                                                       |
| Ethernet              | 2 x I226V                                                                                 | 2 x Realtek RTL8111E Gigabit                                                                                                | 2 x Realtek RTL8111E Gigabit                                                                                                                                                                         |
| Power Connector       | Lockable DC Jack                                                                          | Lockable DC Jack                                                                                                            | Lockable DC Jack                                                                                                                                                                                     |
| Power Requirement     | +12V                                                                                      | +12V                                                                                                                        | +12V                                                                                                                                                                                                 |
| Power Mode            | ATX                                                                                       | ATX                                                                                                                         | ATX                                                                                                                                                                                                  |
| Adapter               | Input: 100 ~ 240Vdc/ 50 ~ 60Hz<br>Output: 120W Adapter (12V @ 10A)                        | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A)                                                            | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A)                                                                                                                                     |
| Operating Temperature | 0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s air flow                                            | With Extended Temperature Peripherals<br>w/ Air Flow: -10°C ~ 60°C (14°F ~ 140°F)                                           | With Extended Temperature Peripherals<br>w/ Air Flow: -10°C ~ 50°C (14°F ~ 122°F)                                                                                                                    |
| Construction          | Aluminum + Metal                                                                          | Aluminum + Metal                                                                                                            | Aluminum + Metal                                                                                                                                                                                     |
| Mounting Kit          | VESA/ Din Rail                                                                            | VESA/ Din Rail                                                                                                              | VESA/ Din Rail                                                                                                                                                                                       |
| Dimension (L x W x H) | 4.53" x 4.37" x 2.28"<br>(115 x 111 x 58 mm)                                              | 4.53" x 4.37" x 2.28"<br>(115 x 111 x 58 mm)                                                                                | 4.53" x 4.37" x 1.77"<br>(115 x 111 x 45 mm)                                                                                                                                                         |
| Weight                | 0.85 kg                                                                                   | 0.85 kg                                                                                                                     | 0.72 kg                                                                                                                                                                                              |
| Certification         | CE, FCC Class B                                                                           | CE, FCC Class A                                                                                                             | CE, FCC Class A                                                                                                                                                                                      |

モジュラー コンピューティングシステム



| Model Number          | EMS-MTU                                                                                                                                                                   | EMS-MTH                                                                                                                                                                   | EMS-TGL                                                                                                                                                                  | EMS-EHL                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor             | Intel® Core™ Ultra 7 Processor 155U<br>Intel® Core™ Ultra 5 Processor 125U                                                                                                | Intel® Core™ Ultra 7 Processor 155H<br>Intel® Core™ Ultra 5 Processor 125H                                                                                                | Intel® Core™ i7-1185GRE/ i5-1145GRE/<br>i3-1115GRE (WT)<br>Intel® Core™ i7-1185G7E/ i5-1145G7E/<br>i3-1115G4E (ST)                                                       | Intel® Celeron® J6413<br>Intel® Atom® x6425E                                                                                                                              |
| System Memory         | 2 x 262-Pin SODIMM DDR5 5600MHz<br>up to 64GB                                                                                                                             | 2 x 262-Pin SODIMM DDR5 5600MHz<br>up to 64GB                                                                                                                             | 2 x 260-Pin SODIMM DDR4 3200MHz<br>up to 64GB                                                                                                                            | 1 x 260-Pin SODIMM DDR4 3200MHz<br>up to 32GB                                                                                                                             |
| Expansion             | 1 x Avalue 80-Pin IET Module Interface<br>1 x M.2 Key-B 2242/3042/3052<br>(SATA/ PCIe/ USB3.2) w/ SIM Slot<br>1 x M.2 Key-E 2230 for Wi-Fi & BT<br>Module (USB 2.0/ PCIe) | 1 x Avalue 80-Pin IET Module Interface<br>1 x M.2 Key-B 2242/3042/3052<br>(SATA/ PCIe/ USB3.2) w/ SIM Slot<br>1 x M.2 Key-E 2230 for Wi-Fi & BT<br>Module (USB 2.0/ PCIe) | 1 x Avalue 80-Pin IET Module Interface<br>1 x M.2 Key-B 2242/3042/3052<br>(SATA/ PCIe/ USB3.1) w/ SIM Slot<br>1 x M.2 Key-E 2230 for Wi-Fi & BT<br>Module (USB2.0/ PCIe) | 1 x Avalue 80-Pin IET Module Interface<br>1 x M.2 Key-B 2242/3042/3052 (SATA/<br>PCIe/ USB3.2 ) w/ SIM Slot<br>1 x M.2 Key-E 2230 for Wi-Fi & BT<br>Module (USB2.0/ PCIe) |
| Storage               | 1 x M.2 Key-M 2280 (PCIe), Support<br>NVMe<br>1 x M.2 Key-B 2242 (SATA), Share with<br>Expansion Slot                                                                     | 1 x M.2 Key-M 2280 (PCIe), Support<br>NVMe<br>1 x M.2 Key-B 2242 (SATA), Share with<br>Expansion Slot                                                                     | 1 x M.2 Key-M 2280 (PCIe), Support<br>NVMe<br>1 x M.2 Key-B 2242 (SATA), Share with<br>Expansion Slot                                                                    | 1 x M.2 Key-B 2242/2280 (SATA)<br>1 x M.2 Key-B 2242 (SATA), share with<br>expansion Slot                                                                                 |
| USB                   | 2 x USB2.0, 4 x USB 3.2 Gen.1                                                                                                                                             | 2 x USB2.0, 4 x USB 3.2 Gen.1                                                                                                                                             | 2 x USB 3.1 Gen.2, 2 x USB 3.1 Gen.1                                                                                                                                     | 2 x USB 3.2 Gen.2, 2 x USB 3.2 Gen.1                                                                                                                                      |
| COM Port              | 2 x COM RS232/422/485<br>(BIOS & Jumper)                                                                                                                                  | 2 x COM RS232/422/485<br>(BIOS & Jumper)                                                                                                                                  | 2 x COM RS232/422/485<br>(BIOS & Jumper)                                                                                                                                 | 2 x COM RS232/422/485<br>(BIOS & Jumper)                                                                                                                                  |
| Other                 | 8 x Antenna Mounting w/ Dust Cover                                                                                                                                        | 8 x Antenna Mounting w/ Dust Cover                                                                                                                                        | 8 x Antenna Mounting w/ Dust Cover                                                                                                                                       | 8 x Antenna Mounting w/ Dust Cover                                                                                                                                        |
| DIO                   | 1 x 8-bit GPIO (DB9)                                                                                                                                                      | 1 x 8-bit GPIO (DB9)                                                                                                                                                      | 1 x 8-bit GPIO (DB9)                                                                                                                                                     | 1 x 8-bit GPIO (DB9)                                                                                                                                                      |
| Display Chipset       | Intel® Graphics                                                                                                                                                           | Intel® Arc™ Graphics                                                                                                                                                      | Intel® Iris® Xe Graphics (Core i7/i5)<br>Intel® UHD Graphics (Core i3)                                                                                                   | Intel® UHD Graphics                                                                                                                                                       |
| Display Resolution    | 1 x DP++ : 4096 x 2304 @ 60Hz<br>2 x HDMI : 4096 x 2304 @ 60Hz                                                                                                            | 1 x DP++ : 4096 x 2304 @ 60Hz<br>2 x HDMI : 4096 x 2304 @ 60Hz                                                                                                            | 1 x DP++ : 4096 x 2304 @ 60Hz<br>1 x HDMI : 4096 x 2304 @ 60Hz                                                                                                           | 1 x DP++ : 4096 x 2304 @ 60Hz<br>1 x HDMI : 4096 x 2304 @ 60Hz                                                                                                            |
| Audio Chipset         | Realtek Audio Code                                                                                                                                                        | Realtek Audio Code                                                                                                                                                        | Realtek Audio Code                                                                                                                                                       | Realtek Audio Code                                                                                                                                                        |
| Audio Interface       | Mic-in, Line-out                                                                                                                                                          | Mic-in, Line-out                                                                                                                                                          | Mic-in, Line-out                                                                                                                                                         | Mic-in, Line-out                                                                                                                                                          |
| Ethernet Chipset      | 2 x Intel® I226-IT                                                                                                                                                        | 2 x Intel® I226-IT                                                                                                                                                        | 1 x Intel® I225-LM, 1 x Intel® I219-LM                                                                                                                                   | 2 x Intel® I226-IT                                                                                                                                                        |
| Ethernet Interface    | 2 x RJ45                                                                                                                                                                  | 2 x RJ45                                                                                                                                                                  | 2 x RJ45                                                                                                                                                                 | 2 x RJ45                                                                                                                                                                  |
| Power Connector       | 3-Pin Terminal Block                                                                                                                                                      | 3-Pin Terminal Block                                                                                                                                                      | 3-Pin Terminal Block                                                                                                                                                     | 3-Pin Terminal Block                                                                                                                                                      |
| Power Requirement     | Typical +12/ 24Vdc (+9V ~ +36Vdc)                                                                                                                                         | Typical +12/ 24Vdc (+9V ~ +36Vdc)                                                                                                                                         | Typical +12/ 24Vdc (+9V ~ +36Vdc)                                                                                                                                        | Typical +12/ 24Vdc (+9V ~ +36Vdc)                                                                                                                                         |
| ACPI                  | Single Power ATX Support S0, S4, S5<br>ACPI 5.0 Compliant                                                                                                                 | Single Power ATX Support S0, S4, S5<br>ACPI 5.0 Compliant                                                                                                                 | Single Power ATX Support S0, S3, S4, S5<br>ACPI 5.0 Compliant                                                                                                            | Single Power ATX Support S0, S3, S4, S5<br>ACPI 5.0 Compliant                                                                                                             |
| Power Mode            | AT/ ATX (ATX is Default Setting)                                                                                                                                          | AT/ ATX (ATX is Default Setting)                                                                                                                                          | AT/ ATX (ATX is Default Setting)                                                                                                                                         | AT/ ATX (ATX is Default Setting)                                                                                                                                          |
| Adapter               | Optional AC-DC Adapter (120W)                                                                                                                                             | Optional AC-DC Adapter (120W)                                                                                                                                             | Optional AC-DC Adapter (60W)                                                                                                                                             | Optional AC-DC Adapter (60W)                                                                                                                                              |
| Construction          | Aluminum + Metal                                                                                                                                                          | Aluminum + Metal                                                                                                                                                          | Aluminum + Metal                                                                                                                                                         | Aluminum + Metal                                                                                                                                                          |
| Dimension (L x W x H) | 240 x 150 x 49 mm (Standard)<br>240 x 150 x 75 mm (w/ IET Module)                                                                                                         | 240 x 150 x 59 mm (Standard)<br>240 x 150 x 85 mm (w/ IET Module)                                                                                                         | 240 x 150 x 48 mm (Standard)<br>240 x 150 x 69 mm (w/ IET Module)                                                                                                        | 240 x 150 x 43 mm (Standard)<br>240 x 150 x 64 mm (w/ IET Module)                                                                                                         |
| Operating Temp.       | -40°C ~ 65°C (w/SSD) Ambient<br>w/ Air Flow                                                                                                                               | -40°C ~ 50°C (w/SSD) Ambient<br>w/ Air Flow                                                                                                                               | -40°C ~ 70°C (w/SSD) Ambient air flow,<br>WT sku<br>0°C ~ 70°C (w/SSD) ambient w/ air flow,<br>ST sku                                                                    | -40°C ~ 70°C (w/SSD) Ambient<br>w/ Air Flow, WT sku<br>0°C ~ 65°C (w/SSD) Ambient<br>w/ Air Flow, ST sku                                                                  |
| Certification         | CE, FCC Class B, UKCA                                                                                                                                                     | CE, FCC Class B, UKCA                                                                                                                                                     | CE, FCC Class B                                                                                                                                                          | CE, FCC Class B, LVD 62368-1                                                                                                                                              |

拡張可能 コンピューティングシステム



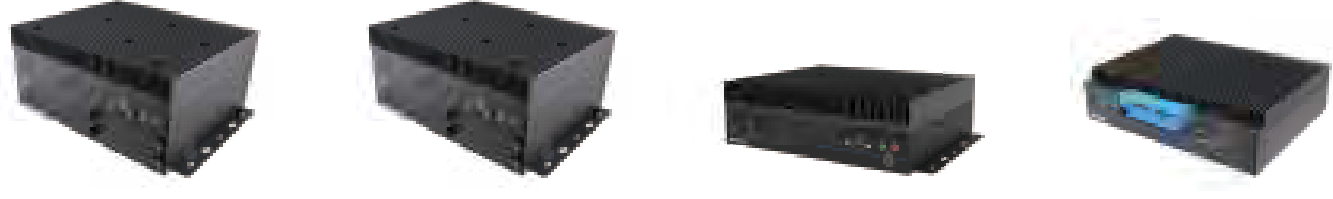
| Model Number          | SLP-RPR                                                                                                                                                                                                                                                         | SLP-WHG                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor             | 14th Generation Intel® Raptor Lake-S Refresh i9-14900T/ i7-14700T/<br>i5-14500T/ i3-14100T/ i9-14900/ i7-14700/ i5-14500/ i3-14100 Processors                                                                                                                   | Onboard 8th Gen Intel® Core™ SoC i7-8665UE/ i5-8365UE/ i3-8145UE<br>& Celeron® 4305UE BGA Processor                                                                                   |
| System Chipset        | Intel® Q670E Chipset                                                                                                                                                                                                                                            | N/A                                                                                                                                                                                   |
| System Memory         | 2-262-pin SO-DIMM Socket Max. up to 64GB DDR5 5600MHz                                                                                                                                                                                                           | 2 x 260-pin SODIMM Socket Max. up to 32GB DDR4 2133MT/s                                                                                                                               |
| Expansion             | 1 x PCIe16 Slot<br>1 x PCIe4 Slot<br>1 x M.2 Key-E 2230 Support PCIe1 and USB2.0 for Wi-Fi & BT Module<br>1 x M.2 Key-B 2242/3042/3052 Support PCIe1, USB 3.2, SATA3 with Internal<br>SIM Slot for 4G/5G                                                        | 1 x PCIe x1 Slot<br>1 x PCIe x4 Slot<br>1 x M.2 Key-A 2230 for Wi-Fi & BT Module<br>1 x M.2 Key-B 3042/2242/2260/2280, Support SATA 3/ PCIe III x 1/ USB 2.0<br>and Internal SIM Slot |
| Storage               | 1 x M.2 Key-M 2242/2280 Support NVMe (PCIe Gen4x4) for Storage<br>1 x M.2 Key-B 2242 Support SATAIII for Storage (Share with Expansion Slot)<br>2 x 2.5" Drive Bay Support RAID 0/1                                                                             | 1 x M.2 Key-B 2242/2260/2280, Support SATAIII for Staorge<br>(Share with Expansion Slot)<br>1 x 2.5" Drive Bay (Internal)                                                             |
| USB                   | 6 x USB 2.0<br>(2 x Internal TypeA Connector, 4 x External TypeA Connector)<br>4 x USB 3.2 Gen 2<br>(4 x External TypeA Connector)                                                                                                                              | 3 x USB3.1 Gen1<br>1 x USB Type C w/o ALT Mode                                                                                                                                        |
| COM Port              | 4 x RS-232/422/485<br>4 x RS-232 (2 x RS-232 by Optional)                                                                                                                                                                                                       | 4 x RS-232                                                                                                                                                                            |
| Other                 | 1x 16-bit Programmable GPIO (by Optional)<br>1x Power on/off Switch with LED<br>1x Reset Button<br>1x HDD LED                                                                                                                                                   | 1 x Power on/off Switch with LED<br>1 x Reset Button<br>1 x HDD LED<br>1 x Internal USB 2.0 (Type-A)<br>1 x PS/2 Keyboard/ Mouse                                                      |
| Display               | 2 x HMDI 2.0b<br>2 x DPl.4 (Support DP++)                                                                                                                                                                                                                       | 3 x HDMI 1.4b: 3840 x 2160 @ 30Hz                                                                                                                                                     |
| Audio                 | 1 x Mic-in<br>1 x Line-out                                                                                                                                                                                                                                      | N/A                                                                                                                                                                                   |
| Ethernet              | 1 x Intel® I219-LM<br>3 x Intel® I226-V                                                                                                                                                                                                                         | 1 x Intel® I219-LM<br>2 x Intel® I210-IT                                                                                                                                              |
| Power Connector       | Phoenix Connector                                                                                                                                                                                                                                               | Phoenix Connector                                                                                                                                                                     |
| Power Requirement     | DC in +12V ~ +24V, Wide Voltage                                                                                                                                                                                                                                 | DC in +12V ~ +24V, Wide Voltage                                                                                                                                                       |
| Power Mode            | AT/ ATX (ATX is Default Setting)                                                                                                                                                                                                                                | AT/ ATX (ATX is Default Setting)                                                                                                                                                      |
| Adapter               | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 280W Adapter (24V @ 11.67A)                                                                                                                                                                                           | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 180W Adapter (24V @ 7.5A)                                                                                                                   |
| Operating Temperature | Passive Cooling<br>-20°C ~ 40°C (14°F ~ 104°F) with 0.7m/s Air Flow (65W)<br>-20°C ~ 50°C (14°F ~ 122°F) with 0.7m/s Air Flow (35W)<br>Active Cooling<br>-20°C ~ 50°C (14°F ~ 122°F) with System Fan (65W)<br>-20°C ~ 60°C (14°F ~ 140°F) with System Fan (35W) | -20~50°C (-4°F ~ 122°F) w/ WT SSD, Ambient w/ 0.5m/s Air Flow                                                                                                                         |
| Storage Temperature   | -30~70°C (-22°F ~ 158°F)                                                                                                                                                                                                                                        | -40°C ~ 75°C (-40°F ~ 167°F)                                                                                                                                                          |
| Construction          | Aluminum + Metal                                                                                                                                                                                                                                                | Aluminum + Metal                                                                                                                                                                      |
| Mounting Kit          | Wall Mount Kit                                                                                                                                                                                                                                                  | N/A                                                                                                                                                                                   |
| Dimension (L x W x H) | 280 x 156 x 230 mm                                                                                                                                                                                                                                              | 217 x 115 x 220 mm                                                                                                                                                                    |
| Weight                | Estimated 6.4 kg                                                                                                                                                                                                                                                | 2.6 kg                                                                                                                                                                                |

交通＆物流用途向けシステム



| Model Number              | VMS-EHLR                                                                                                                                                         | EMS-TGL-Marine                                                                                      | VMS-RPPS                                                                                                                                                                       |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor                 | Intel® Atom® x6425E                                                                                                                                              | Intel® Core™ i7-1185GRE/ i5-1145GRE/ i3-1115GRE                                                     | Intel® Core™ 7 processor 150UL<br>Intel® Core™ 5 processor 120UL<br>Intel® Core™ 3 processor 100UL<br>Intel® Core™ processor U300L                                             |
| System Memory             | 1 x 260-Pin SODIMM DDR4 3200MHz up to 32GB                                                                                                                       | 2 x 260-Pin SODIMM DDR4 3200MHz up to 64GB                                                          | 2 x 262-Pin SODIMM DDR5 5200MHz up to 64GB                                                                                                                                     |
| Expansion                 | 1 x M.2 Key-B 2242/ 3042/3052 (PCIe/ USB 3.1) w/ SIM Slot1 (External)<br>1 x M.2 Key-E 2230 (PCIe/ USB 2.0)<br>1 x mPCIe (PCIe/ USB 2.0) w/ SIM Slot2 (External) | 1 x M.2 Key-B 2242/3042/3052 (SATA/ PCIe/ USB3.1) w/ SIM Slot<br>1 x M.2 Key-E 2230 (PCIe/ USB 2.0) | 1 x M.2 Key-B 2242/3042/3052 (PCIex1/ USB3.2) w/ SIM Slot1 (External)<br>1 x M.2 Key-E 2230 (PCIe/ USB 2.0)<br>1 x Full Size Mini PCIe (PCIe/ USB 2.0) w/ SIM Slot2 (External) |
| Storage                   | 1 x 2.5" Drive Bay (SATA III)<br>1 x M.2 Key-B 2242 (SATA III), Share with Expansion Slot                                                                        | 1 x M.2 Key-M 2242/2280 (PCIe) NVMe<br>1 x M.2 Key-B 2242 (SATA) Share with Expansion Slot          | 1 x M.2 Key-M 2280 (PCIe) NVMe<br>2 x 2.5" Drive Bay                                                                                                                           |
| USB                       | 2 x USB 3.2 Gen.2<br>1 x USB 2.0 (M12 A-coded)                                                                                                                   | 2 x USB 3.2 Gen.2<br>2 x USB 3.2 Gen.1<br>2 x USB 2.0                                               | 2 x USB 2.0<br>2 x USB 3.2 Gen.2                                                                                                                                               |
| COM Port                  | 2 x RS-232/422/385 (BIOS & Jumper)                                                                                                                               | 2 x RS-232/422/485 (BIOS & Jumper)<br>4 x RS-232/422/485 (BIOS) w/ 2.5KV Isolation                  | 2 x RS232/422/485 (Jumper + DIP Switch), Support Auto-flow                                                                                                                     |
| Other                     | 2 x SIM Card Slot (External Accessible w/ Dust Cover)<br>7 x Antenna Mounting w/ Dust Cover<br>1 x CAN 2.0B (DB9), Optional                                      | 8 x Antenna Mounting w/ Dust Cover                                                                  | 2 x SIM Card Slot (External Accessible w/ Dust Cover)<br>8 x Antenna Mounting w/ Dust Cover<br>1 x GND                                                                         |
| DIO                       | 1 x 8-Bit GPIO (DB9), w/ 2.5KV Isolation                                                                                                                         | 1 x 8-bit GPIO (DB9)                                                                                | 1 x 10-bits GPIO                                                                                                                                                               |
| Display Chipset           | Intel® UHD Graphics                                                                                                                                              | Intel® Iris® Xe Graphics (Core i7/i5)<br>Intel® UHD Graphics (Core i3)                              | Intel® Graphics                                                                                                                                                                |
| Display Resolution        | 1 x DP++: 4096 x 2304 @ 60Hz<br>1 x HDMI: 4096 x 2304 @ 60Hz<br>1 x VGA: 1920 x 1080 @ 60Hz                                                                      | 1 x DP++: 4096 x 2304 @ 60Hz<br>1 x HDMI: 4096 x 2304 @ 60Hz                                        | 2 x DP++: 4096x2304 @ 60Hz<br>HDMI: 4096 x 2304 @ 60Hz                                                                                                                         |
| Audio Interface           | Mic-in, Line-out, Line-in (DB15)                                                                                                                                 | 1 x Mic-in<br>1 x Line-out                                                                          | 1 x Mic-in<br>1 x Line-out                                                                                                                                                     |
| Ethernet Chipset          | 2 x Intel® I210-IT                                                                                                                                               | 1 x Intel® I225-LM<br>1 x Intel® I219-LM                                                            | 4 x Intel® I226iT                                                                                                                                                              |
| Ethernet Interface        | 2 x M12 (X-coded)                                                                                                                                                | 2 x RJ45                                                                                            | 4 x RJ-45 (4 x PoE Available for BOM Option)                                                                                                                                   |
| Power Requirement         | Typical 24Vdc (+9V ~ +36V) w/ Isolation                                                                                                                          | Typical 12/ 24Vdc (+9V ~ +36V) w/ Isolation                                                         | Typical 12/24/48 Vdc ( +9 ~ 60Vdc)                                                                                                                                             |
| Power Mode                | AT/ ATX (AT Default), w/ Ignition Control and Power Management                                                                                                   | AT/ ATX (ATX Default)                                                                               | AT/ ATX (AT Default), w/ Ignition Control and Power Management                                                                                                                 |
| Dimension (L x W x H)     | 240 x 150 x 55 mm                                                                                                                                                | 240 x 150 x 69 mm                                                                                   | 239 x 160 x 56 mm                                                                                                                                                              |
| Operating Temperature     | -40°C ~ 70°C (-40°F ~ 158°F) (w/SSD) Ambient<br>w/ Air Flow Follow EN50155, Class OT4                                                                            | -40°C ~ 60°C (-40°F ~ 140°F) (w/SSD) Ambient<br>w/ Air Flow                                         | Standard System: -40°C ~ 65°C (-40°F ~ 149°F)<br>Ambient w/ Air Flow<br>System with PoE: -40°C ~ 55°C (-40°F ~ 131°F)<br>Ambient w/ Air Flow                                   |
| Certification Information | CE, FCC Class A, EN50155, EN50121                                                                                                                                | CE, FCC Class A, IEC 60945, IP50 Rating                                                             | CE, FCC Class A, E24 Mark, ISO 7637-2                                                                                                                                          |

交通＆物流用途向けシステム



| VMS-CFS                                                                                                                                                                                                                                      | VMS-CFS-PSE                                                                                                                                                                                               | VMS-CFS-SLIM                                                                                                                                                                                              | VMS-APL                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Intel® Core™ i7-9700TE/ i7-8700T/ i5-9500TE/ i5-8500T/ i3-9100TE/ i3-8100T & Pentium® G5400T & Celeron® G4900T                                                                                                                               | Intel® Core™ i7-9700TE/ i7-8700T/ i5-9500TE/ i5-8500T/ i3-9100TE/ i3-8100T & Pentium® G5400T & Celeron® G4900T                                                                                            | Intel® Core™ i7-9700TE/ i7-8700T/ i5-9500TE/ i5-8500T/ i3-9100TE/ i3-8100T & Pentium® G5400T & Celeron® G4900T                                                                                            | Intel® Pentium® N4200<br>Intel® Celeron® N3350/ J3455<br>Intel Atom® x7-E3950/ x5-E3940/ x5-E3930                                                            |
| 2x 260-Pin SODIMM DDR4 2400/2666MHz up to 64GB                                                                                                                                                                                               | 2x 260-Pin SODIMM DDR4 2400/2666MHz up to 64GB                                                                                                                                                            | 2x 260-Pin SODIMM DDR4 2400/2666MHz up to 64GB                                                                                                                                                            | 1 x 204-Pin SODIMM DDR3L 1866MHz up to 8GB                                                                                                                   |
| 1 x Avalue 80-Pin IET Interface<br>1 x mPCIe (PCIe/ USB 2.0) w/ SIM Slot1 (External)<br>1 x M.2 Key-E 2230 (PCIe/ USB 2.0)<br>2 x M.2 Key-B 2242/ 3042/ 2280 (PCIe/ USB 3.1/ SATA) w/ SIM Slot2, 3 (External)<br>1 x CANBus Module Interface | 1 x mPCIe (PCIe/ USB 2.0) w/ SIM Slot1 (External)<br>1 x M.2 Key-E 2230 (PCIe/ USB 2.0)<br>2 x M.2 Key-B 2242/ 3042/ 2280 (PCIe/ USB 3.1/ SATA) w/ SIM Slot2, 3 (External)<br>1 x CANBus Module Interface | 1 x mPCIe (PCIe/ USB 2.0) w/ SIM Slot1 (External)<br>1 x M.2 Key-E 2230 (PCIe/ USB 2.0)<br>2 x M.2 Key-B 2242/ 3042/ 2280 (PCIe/ USB 3.1/ SATA) w/ SIM Slot2, 3 (External)<br>1 x CANBus Module Interface | 1 x Avalue 80-Pin IET Interface<br>2 x mPCIe (PCIe/ USB2.0) w/ SIM Slot1, 2 (External)<br>1 x CANBus Module Interface                                        |
| 2 x 2.5" Drive Bay (SATA III)<br>2 x M.2 Key-B 2242/2280 (SATA III)                                                                                                                                                                          | 2 x 2.5" Drive Bay (SATA III)<br>2 x M.2 Key-B 2242/2280 (SATA III)                                                                                                                                       | 2 x M.2 Key-B 2242/2280 (SATA III)                                                                                                                                                                        | 1 x 2.5" Drive Bay (SATA III)<br>1 x M.2 key-B 2242 (SATA III)<br>1 x SD (3.0)                                                                               |
| 6 x USB 3.1                                                                                                                                                                                                                                  | 6 x USB 3.1<br>2 x USB 2.0                                                                                                                                                                                | 6 x USB 3.1                                                                                                                                                                                               | 4 x USB 3.0                                                                                                                                                  |
| 1 x RS232<br>2 x RS-232/422/485 (BIOS)                                                                                                                                                                                                       | 1 x RS232<br>2 x RS-232/422/485 (BIOS)                                                                                                                                                                    | 1 x RS232<br>2 x RS-232/422/485 (BIOS)                                                                                                                                                                    | 2 x RS-232/422/485 (Jumper)                                                                                                                                  |
| 3 x SIM Card Slot (External Accessible w/ Dust Cover)<br>5 x Antenna Mounting w/ Dust Cover<br>1 x 8-Bit GPIO (DB9), w/ 1.5KV Isolation                                                                                                      | 3 x SIM Card Slot (External Accessible w/ Dust Cover)<br>5 x Antenna Mounting w/ Dust Cover<br>1 x 8-Bit GPIO (DB9), w/ 1.5KV Isolation                                                                   | 3 x SIM Card Slot (External Accessible w/ Dust Cover)<br>5 x Antenna Mounting w/ Dust Cover<br>1 x 8-Bit GPIO (DB9), w/ 1.5KV Isolation                                                                   | 2 x SIM Card Slot (External Accessible w/ Dust Cover)<br>5 x Antenna Mounting w/ Dust Cover<br>1 x 8-Bit GPIO (DB9)                                          |
| Intel® UHD Graphics 630/ 610                                                                                                                                                                                                                 | Intel® UHD Graphics 630/610                                                                                                                                                                               | Intel® UHD Graphics 630/ 610                                                                                                                                                                              | Intel® HD Graphics 505/500                                                                                                                                   |
| 1 x DP: 4096 x 2160 @ 60Hz<br>2 x HDMI: 4096 x 2160 @ 30Hz<br>1 x LVDS: 1920 x 1200 @ 60Hz                                                                                                                                                   | 1 x DP: 4096 x 2160 @ 60Hz<br>2 x HDMI: 4096 x 2160 @ 30Hz<br>1 x LVDS: 1920 x 1200 @ 60Hz                                                                                                                | 1 x DP: 4096 x 2160 @ 60Hz<br>2 x HDMI: 4096 x 2160 @ 30Hz                                                                                                                                                | 1 x DP: 4096 x 2160 @ 60Hz<br>1 x LVDS: 1920 x 1200 @ 60Hz                                                                                                   |
| 2 x Mic-in<br>2 x Line-out                                                                                                                                                                                                                   | 2 x Mic-in<br>2 x Line-out                                                                                                                                                                                | 2 x Mic-in<br>2 x Line-out                                                                                                                                                                                | 2 x Mic-in<br>2 x Line-out                                                                                                                                   |
| 1 x Intel® I211-AT<br>1 x Intel® I219-LM                                                                                                                                                                                                     | 1 x Intel® I211-AT<br>1 x Intel® I219-LM<br>4 x Intel® WG82574L                                                                                                                                           | 1 x Intel® I211-AT<br>1 x Intel® I219-LM                                                                                                                                                                  | 2 x Intel® I211-AT                                                                                                                                           |
| 2 x RJ45                                                                                                                                                                                                                                     | 6 x RJ45 (4 x Ports Support 802.3af PoE)                                                                                                                                                                  | 2 x RJ45; 4 x Port RJ45/ M12, Supports 802.3af PoE (Optional)                                                                                                                                             | 2 x RJ45                                                                                                                                                     |
| Typical 12/ 24Vdc (+9V ~ +36V)                                                                                                                                                                                                               | Typical 12/ 24Vdc (+9V ~ +36V)                                                                                                                                                                            | Typical 12/ 24Vdc (+9V ~ +36V)                                                                                                                                                                            | Typical 12/ 24Vdc (+9V ~ +36V)                                                                                                                               |
| AT/ ATX (AT Default) w/ Ignition Control and Power Management                                                                                                                                                                                | AT/ ATX (AT Default) w/ Ignition Control and Power Management                                                                                                                                             | AT/ ATX (AT Default) w/ Ignition Control and Power Management                                                                                                                                             | AT/ ATX (AT Default), w/ Ignition Control and Power Management                                                                                               |
| 240 x 210 x 110 mm                                                                                                                                                                                                                           | 240 x 210 x 110 mm                                                                                                                                                                                        | 240 x 210 x 75 mm                                                                                                                                                                                         | 239 x 186 x 62 mm                                                                                                                                            |
| -40°C ~ 70°C (-40°F ~ 158°F) (w/SSD) Ambient<br>w/ Air Flow                                                                                                                                                                                  | -40°C ~ 60°C (-40°F ~ 140°F) (w/SSD) Ambient<br>w/ Air Flow                                                                                                                                               | -40°C ~ 60°C (-40°F ~ 140°F) (w/SSD) Ambient<br>w/ Air Flow                                                                                                                                               | N4200/ N3350/J3455: -20°C ~ 70°C (-4°F ~ 158°F) (w/SSD) Ambient w/ Air Flow<br>E3950/ E3940/ E3930: -40°C ~ 70°C (-40°F ~ 158°F) (w/SSD) Ambient w/ Air Flow |
| CE, FCC Class A, E13 Mark, ISO7637-2, IP50 Rating                                                                                                                                                                                            | CE, FCC Class A, E13 Mark, ISO7637-2, IP50 Rating                                                                                                                                                         | CE, FCC Class A, E13 Mark, ISO7637-2, IP50 Rating                                                                                                                                                         | CE, FCC Class B, E13 Mark, ISO7637-2, IP50 Rating                                                                                                            |

エッジ AI プラットフォーム

» NVIDIA Jetson シリーズ



| Model Number           | AIB-NVA0                                                                                                                                                                                                                                                                                                                                       | AIB-NIA0                                                                                                                                                                                                                                                                                                                                                                                    | AIB-NW01                                                                                                                                                                                                                     |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor              | Jetson AGX Orin 32GB<br>Jetson AGX Orin 64GB                                                                                                                                                                                                                                                                                                   | Jetson AGX Orin 32GB<br>Jetson AGX Orin 64GB                                                                                                                                                                                                                                                                                                                                                | Jetson Orin Nano 4GB<br>Jetson Orin Nano 8GB<br>Jetson Orin NX 8GB<br>Jetson Orin NX 16GB                                                                                                                                    |
| AI Performance         | 32GB-200 TOPS<br>64GB-275 TOPS                                                                                                                                                                                                                                                                                                                 | 32GB-200 TOPS<br>64GB-275 TOPS                                                                                                                                                                                                                                                                                                                                                              | Orin Nano 4GB: 20 TOPS<br>Orin Nano 8GB: 40 TOPS<br>Orin NX 8GB: 70 TOPS<br>Orin NX 16GB: 100TOPS                                                                                                                            |
| System Memory          | 32GB<br>64GB                                                                                                                                                                                                                                                                                                                                   | 32GB<br>64GB                                                                                                                                                                                                                                                                                                                                                                                | Nano: 4GB/ 8GB<br>NX: 8GB/ 16GB                                                                                                                                                                                              |
| Storage                | 64GB eMMC 5.1                                                                                                                                                                                                                                                                                                                                  | 64GB eMMC 5.1                                                                                                                                                                                                                                                                                                                                                                               | 128GB M.2 2280 NVMe SSD                                                                                                                                                                                                      |
| Expansion              | 1 x M.2 M Key<br>1 x mPCIe<br>1 x Nano SIM Slot                                                                                                                                                                                                                                                                                                | 1 x M.2 B Key<br>1 x M.2 M Key<br>1 x MicroSD Card Slot<br>2 x mPCIe<br>4 x Nano SIM Slot                                                                                                                                                                                                                                                                                                   | 1 x M.2 M Key<br>1 x M.2 E Key<br>1 x M.2 B Key<br>1 x Micro SIM Slot                                                                                                                                                        |
| External I/O Connector | 4 x 10/100/1000 RJ45 Powered LAN<br>5 x CAN FD<br>2 x GMSL2<br>8 x GPIO (4 x In, 4 x Out)<br>1 x HDMI 2.0 TypeA<br>1 x M.2 M Key<br>1 x mPCIe<br>1 x Nano SIM Slot<br>1 x Power Key<br>1 x Recovery Key<br>1 x Reset Key<br>1 x Debug (RS-232)<br>3 x RS232<br>2 x RS485/RS422<br>3 x SYNC I/O (SYNC_IN/SYNC_OUT/SYNC_PPS)<br>2 x USB3.0 TypeA | 5 x 10/100/1000 RJ45 Powered LAN<br>2 x CAN FD<br>16 x GPIO (8 x In, 8 x Out)<br>1 x HDMI 2.0 (TypeA)<br>1 x M.2 B Key<br>1 x M.2 M Key<br>1 x MicroSD Card Slot<br>1 x mPCIe<br>1 x Nano SIM Slot<br>1 x Power Key<br>1 x Recovery Key<br>1 x Reset Key<br>3 x RS232<br>2 x RS485/422<br>1 x Debug<br>4 x SYNC I/O (SYNC_IN/SYNC_OUT/SYNC_PPS)<br>1 x USB 2.0 Type C<br>4 x USB 3.0 Type A | 2 x 10/100/1000 RJ45 LAN<br>1 x DC Phoenix<br>1 x HDMI 2.0 Type A<br>1 x M.2 B Key<br>1 x M.2 E Key<br>1 x Micro SIM<br>1 x Micro USB OTG<br>1 x Power LED<br>1 x Reset<br>2 x RS-232/485 DB9 (Jumper)<br>4 x USB 3.0 Type A |
| Protection             | IP5X (Optional)                                                                                                                                                                                                                                                                                                                                | IP5X (Optional)                                                                                                                                                                                                                                                                                                                                                                             | N/A                                                                                                                                                                                                                          |
| Power Requirement      | DC 9V ~ 36V                                                                                                                                                                                                                                                                                                                                    | DC 12V ~ 48V                                                                                                                                                                                                                                                                                                                                                                                | DC 10V ~ 24V                                                                                                                                                                                                                 |
| Operating Temperature  | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                                                                                    | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                                                                                                                                 | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                  |
| Storage Temperature    | -40°C ~ 80°C (-40°F ~ 176°F)                                                                                                                                                                                                                                                                                                                   | -40°C ~ 80°C (-40°F ~ 176°F)                                                                                                                                                                                                                                                                                                                                                                | -40°C ~ 80°C (-40°F ~ 176°F)                                                                                                                                                                                                 |
| Dimension (L x W x H)  | 276 x 214 x 71 mm                                                                                                                                                                                                                                                                                                                              | 226 x 144.5 x 70 mm                                                                                                                                                                                                                                                                                                                                                                         | 196 x 125 x 66.1 mm                                                                                                                                                                                                          |
| Weight                 | 4.3 kg                                                                                                                                                                                                                                                                                                                                         | 2.3 kg                                                                                                                                                                                                                                                                                                                                                                                      | 1.41 kg                                                                                                                                                                                                                      |
| Certification          | CE, FCC Class A                                                                                                                                                                                                                                                                                                                                | CE, FCC Class A                                                                                                                                                                                                                                                                                                                                                                             | CE, FCC Class B                                                                                                                                                                                                              |
| Software Support       | Ubuntu: 20.04<br>JetPack 5.1.1 or Higher<br>Linux for Tegra (L4T) R35.3.1 or Higher                                                                                                                                                                                                                                                            | Ubuntu: 20.04<br>JetPack 5.1.1 or Higher<br>Linux for Tegra (L4T) R35.3.1 or Higher                                                                                                                                                                                                                                                                                                         | Ubuntu: 20.04<br>JetPack 5.1.1 or Higher<br>Linux for Tegra (L4T) R35.3.1 or Higher                                                                                                                                          |

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| Model Number                                          | AIB-NIA0-S                                                                                                                                                                     | AIB-NINX-S                                                                                                                                                | AIB-NINX-SC                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor                                             | Jetson AGX Orin 32GB<br>Jetson AGX Orin 64GB                                                                                                                                   | Jetson NX Orin 8GB<br>Jetson NX Orin 16GB                                                                                                                 | Jetson NX Orin 8GB<br>Jetson NX Orin 16GB                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AI Performance                                        | 32GB-200 TOPS<br>64GB-275 TOPS                                                                                                                                                 | 8GB-70TOPS<br>16GB-100TOPS                                                                                                                                | 8GB-70TOPS<br>16GB-100TOPS                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| System Memory                                         | 32GB<br>64GB                                                                                                                                                                   | 8GB<br>16GB                                                                                                                                               | 8GB<br>16GB                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Storage                                               | 64GB eMMC 5.1                                                                                                                                                                  | 128GB M.2 2280 NVMe SSD                                                                                                                                   | 128GB M.2 2280 NVMe SSD                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Expansion                                             | 1 x M.2 2230 E Key<br>2 x M.2 2280 M Key<br>1 x M.2 3042 B Key                                                                                                                 | 1 x M.2 2280/3080 M Key<br>2 x M.2 2280 M Key                                                                                                             | 1 x M.2 M key<br>1 x M.2 E Key                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| External I/O Connector                                | 1 x Power Key<br>1 x Recovery Key<br>2 x USB 3.2<br>1 x DC Jack<br>8 x PSE Port<br>5 x Antenna<br>2 x Ethernet<br>2 x HDMI Out<br>1 x DP Out<br>2 x USB 2.0<br>1 x Line in/out | 1 x Power Key<br>1 x RS232/RJ485<br>1 x Ethernet<br>2 x DC Jack<br>2 x HDMI Out<br>1 x DP Out<br>4 x USB 3.2<br>1 x DC IN                                 | 1 x Power Key<br>2 x Antenna<br>1 x Micro SD Slot<br>1 x GPIO/RS232, I²C<br>1 x USB3.2 Type-C<br>1 x RJ45<br>1 x DC IN<br>1 x Mini DP 1.4                                                                                                                                                                                                                                                                                                                            |
| Protection                                            | N/A                                                                                                                                                                            | N/A                                                                                                                                                       | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Requirement                                     | DC 12 ~ 28V                                                                                                                                                                    | DC 12 ~ 28V                                                                                                                                               | DC 9 ~ 36V                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Operating Temperature                                 | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                    | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                               | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Storage Temperature                                   | -20°C ~ 80°C (-4°F ~ 176°F)                                                                                                                                                    | -20°C ~ 80°C (-4°F ~ 176°F)                                                                                                                               | -20°C ~ 80°C (-4°F ~ 176°F)                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dimension (L x W x H)                                 | 265.08 x 186.70 x 105.29 mm                                                                                                                                                    | 144 x 98 x 80.6 mm                                                                                                                                        | 94.4 x 66 x 69.8 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Weight                                                | 4.2 kg                                                                                                                                                                         | 3.5 kg                                                                                                                                                    | 0.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Certification                                         | CE, FCC Class B                                                                                                                                                                | CE, FCC Class B                                                                                                                                           | CE, FCC Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Software Support                                      | AI SDK by Request<br>Ubuntu: 20.04<br>JetPack 5.1.1 or Higher<br>Linux for Tegra (L4T) R35.3.1 or Higher                                                                       | AI SDK by Request<br>Ubuntu: 20.04<br>JetPack 5.1.1 or Higher<br>Linux for Tegra (L4T) R35.3.1 or Higher                                                  | AI SDK by Request<br>Ubuntu: 20.04<br>JetPack 5.1.1 or Higher<br>Linux for Tegra (L4T) R35.3.1 or Higher                                                                                                                                                                                                                                                                                                                                                             |
| Optional Product Features Extension by Daughter Board | SDK/ Software:<br>By Request<br>AGX 5G:<br>5G Mobility Network(Supports 5G / 4G / 3G SIM Module)<br>PSE Power Supply:<br>8 x 15W ( IEEE802.3af)                                | SDK/ Software:<br>By Request<br>NX 5G:<br>5G Mobility Network(Supports 5G / 4G / 3G SIM Module)<br>NX PSE:<br>PSE Power Supply<br>4 x 15W ( IEEE802.3af ) | SDK/ Software:<br>By Request<br>4K60 12G-SDI:<br>1 x 12G-SDI In & Loop<br>12G-SDI QL 1 x 4K60/ 2 x 4K30/ 4 x HD60:<br>1 x 12G-SDI, 2 x 6G-SDI, 4 x 3G-SDI In<br>(Single-Link, Dual-Link, Quad-Link Support)<br>4K60 HDMI2.1:<br>1 x HDMI2.1 In & Loop<br>4K60 HDMI2.0:<br>1 x HDMI2.0 In & Loop<br>HD60 GMSL2 and CAN Bus:<br>4 x GMSL2 In, 1 x CAN Bus<br>4 x TVI:<br>4 x TVI In<br>HD60 4 x HDMI:<br>4 x HDMI<br>4 x USB3.2-A:<br>1 x USB3.2 Gen2, 4 x USB3.2 Gen1 |



# ARMシステム

## » Rockchip シリーズ



| Model Number           | AIB-3566                                                                                                                                                                                                                                                                      | AIB-3588                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor              | Rockchip RK3566 Quad-core ARM Cortex-A55                                                                                                                                                                                                                                      | Rockchip RK3588 Quad-core ARM Cortex-A76 and Quad-core ARM Cortex-A55                                                                                                                                                                                                                                                                                         |
| System Memory          | 2GB DDR                                                                                                                                                                                                                                                                       | 4GB LPDDR4/ LPDDR4x/ LPDDR5                                                                                                                                                                                                                                                                                                                                   |
| Storage                | 32 GB eMMC 5.1                                                                                                                                                                                                                                                                | 64GB eMMC 5.1                                                                                                                                                                                                                                                                                                                                                 |
| External I/O Connector | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x BT4.1<br>1 x HDMI 2.0 In<br>1 x HDMI 2.0 Out<br>1 x IR or 1 x RS 232<br>1 x USB 2.0 Type B OTG<br>1 x USB 3.0 Type A<br>1 x WIFI 802.11 a/b/g/n/ac<br>1 x Micro SIM<br>BT 5.0 (Optional)<br>3G/4G 1 x mPCIe +1 x Micro SIM (Optional) | 2 x 10/100/1000 RJ45 Powered LAN<br>1 x CAN<br>4 x GPIO<br>1 x HDMI 2.0 in<br>2 x HDMI 2.0 out<br>1 x IR<br>4 x LED (HDD, WIFI, Power, NET)<br>1 x Micro SD Slot<br>1 x Micro SIM Slot<br>1 x Power Key<br>1 x USB 3.0 Type A<br>3 x USB 2.0 Type C<br>1 x Recovery Key<br>3 x RS-232/RS485<br>2 x WIFI Antenna<br>1 x GTIOT (Optional)<br>1 x PoE (Optional) |
| Power Requirement      | DC 12V/ 1.5A                                                                                                                                                                                                                                                                  | DC 12V                                                                                                                                                                                                                                                                                                                                                        |
| Operating Temperature  | -20°C ~ 70°C (-4°F ~ 158°F)                                                                                                                                                                                                                                                   | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                                                                                                   |
| Storage Temperature    | -40°C ~ 70°C (-40°F ~ 158°F)                                                                                                                                                                                                                                                  | -40°C ~ 85°C (-40°F ~ 185°F)                                                                                                                                                                                                                                                                                                                                  |
| Dimension (L x W x H)  | 106 x 100 x 25 mm                                                                                                                                                                                                                                                             | 160 x 125.5 x 48 mm                                                                                                                                                                                                                                                                                                                                           |
| Weight                 | 2.58 kg                                                                                                                                                                                                                                                                       | 0.46 kg                                                                                                                                                                                                                                                                                                                                                       |
| Certification          | CE, FCC Class A                                                                                                                                                                                                                                                               | CE, FCC Class A                                                                                                                                                                                                                                                                                                                                               |
| Software Support       | Android 11.0<br>Linux Debian 10                                                                                                                                                                                                                                               | Android 13<br>Linux Debian 11.0                                                                                                                                                                                                                                                                                                                               |

# ARMシステム

## » NXP シリーズ



| Model Number           | AIB-IMX6                                                                                                                                                                                            | AIB-IMX6A                                                                                                                                                                                                                                                                 | AIB-IMX8M                                                                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor              | NXP i.MX6 Cortex-A9 Dual Lite/ Quad 1GHz CPU                                                                                                                                                        | NXP i.MX6 Cortex-A9 Quad 1GHz CPU                                                                                                                                                                                                                                         | NXP i.MX8M Cortex-A53 Quad Core 1.3GHz; Cortex-M4 Core Processor                                                                                                                                                                                                                                                          |
| System Memory          | 1GB LPDDR3                                                                                                                                                                                          | 1GB LPDDR3                                                                                                                                                                                                                                                                | 2 GB LPDDR4                                                                                                                                                                                                                                                                                                               |
| Storage                | 8GB eMMC                                                                                                                                                                                            | 8GB eMMC                                                                                                                                                                                                                                                                  | 16GB eMMC                                                                                                                                                                                                                                                                                                                 |
| External I/O Connector | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x HDMI 2.0 out<br>1 x Micro SD Slot<br>1 x USB 2.0 Type A<br>1 x Jack for I/R Extender Cable, Co-design (Optional)<br>1 x with on Board I/R Sensor (Optional) | 2 x 10/100/1000 RJ45 Powered LAN<br>1 x HDMI 2.0 out<br>1 x Micro SD Slot<br>1 x Mini USB<br>3 x RS-232/422/485 DB9<br>1 x RS-232/422/485 Debug<br>2 x USB 2.0 Type A<br>1 x Jack for I/R Extender Cable, Co-design (Optional)<br>1 x with on Board I/R Sensor (Optional) | 2 x 10/100/1000 RJ45<br>1 x HDMI 2.0 out<br>1 x Headphone Jack<br>1 x Micro SD Slot<br>1 x USB 3.0 Type A<br>1 x USB 3.0 Type C (Data Only)<br>2 x DB9 Connector (Default)<br>4 x DB9 for RS232/485 (Option)<br>1 x 1x8P GPIO - DB9 Connector<br>1 x 1x4P CAN - DB9 Connector<br>1 x Reset<br>2 x WIFI Antenna (Optional) |
| Power Requirement      | DC 12V ~ 24V, 2.5mm<br>DC Jack, Typical 19V Input<br>With Brownout Detection or Powered LAN (Optional)                                                                                              | DC 12V ~ 24V, 2.5mm<br>DC Jack, Typical 19V Input<br>With Brownout Detection                                                                                                                                                                                              | DC 12V ~ 24V                                                                                                                                                                                                                                                                                                              |
| Operating Temperature  | -20°C ~ 70°C (-4°F ~ 158°F)                                                                                                                                                                         | -20°C ~ 50°C (-4°F ~ 122°F)                                                                                                                                                                                                                                               | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                                                               |
| Storage Temperature    | -40°C ~ 70°C (-40°F ~ 158°F)                                                                                                                                                                        | -20°C ~ 70°C (-4°F ~ 158°F)                                                                                                                                                                                                                                               | -40°C~ 60°C (-40°F ~ 140°F)                                                                                                                                                                                                                                                                                               |
| Dimension (L x W x H)  | 153 x 107.8 x 30 mm                                                                                                                                                                                 | 186 x 121.35 x 37 mm                                                                                                                                                                                                                                                      | 177 x 112 x 53.5 mm                                                                                                                                                                                                                                                                                                       |
| Weight                 | 1.5 kg                                                                                                                                                                                              | 1.0 kg                                                                                                                                                                                                                                                                    | 2.0 kg                                                                                                                                                                                                                                                                                                                    |
| Certification          | CE, FCC Class B                                                                                                                                                                                     | CE, FCC Class B                                                                                                                                                                                                                                                           | CE, FCC Class B                                                                                                                                                                                                                                                                                                           |
| Software Support       | Android 4.4 or 6.0<br>Yocto 2.1                                                                                                                                                                     | Android 4.4 or 6.0<br>Yocto 2.1                                                                                                                                                                                                                                           | Yocto 2.5 (Default)<br>Android 10.0                                                                                                                                                                                                                                                                                       |

# ベアボーンシステム

## » Desktop Chassis



| Model Name              | BMX-T550-B                                                                                                                                                                                                           | BMX-T820                                                                                                                                                                                                             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor               | Intel® 13th Gen Core™ i9/i7/i5/i3 Processor<br>35W TDP Processor<br>Intel® Core™ i9-13900TE Processor<br>Intel® Core™ i7-13700TE Processor<br>Intel® Core™ i5-13500TE Processor<br>Intel® Core™ i3-13100TE Processor | Intel® 13th Gen Core™ i9/i7/i5/i3 Processor<br>35W TDP Processor<br>Intel® Core™ i9-13900TE Processor<br>Intel® Core™ i7-13700TE Processor<br>Intel® Core™ i5-13500TE Processor<br>Intel® Core™ i3-13100TE Processor |
| Platform Controller Hub | Intel® H610E Chipset                                                                                                                                                                                                 | Intel® H610E Chipset                                                                                                                                                                                                 |
| System Memory           | 2 x SODIMM Sockets Support Dual Channel DDR5 4800MHz up to 64GB                                                                                                                                                      | 2 x SODIMM Sockets Support Dual Channel DDR5 4800MHz up to 64GB                                                                                                                                                      |
| Expansion               | M.2<br>1 x M.2 Key-E 2230 CNVi (PCIe x 1, USB 2.0)<br>1 x M.2 Key-M 2242/2280 (PCIe x 4)<br>PCIe<br>1 x PCIe x 16 (Gen 4)                                                                                            | 1 x M.2 Key-E 2230 CNVi (PCIe x 1, USB 2.0)<br>1 x M.2 Key-M 2242/2280 (PCIe x 4)                                                                                                                                    |
| Storage                 | M.2<br>1 x M.2 Key-M 2242/2280 NVMe (PCIe x 4, SATA3)<br>2.5 Drive Bay<br>2 x Internal 2.5" Drive Bay (12.5mm)                                                                                                       | M.2<br>1 x M.2 Key-M 2242/2280 NVMe (PCIe x 4, SATA3)<br>2.5 Drive Bay<br>1 x Internal 2.5" Drive Bay (12.5mm)                                                                                                       |
| USB                     | Front I/O<br>2 x USB 2.0<br>Rear I/O<br>2 x USB 2.0<br>4 x USB 3.2                                                                                                                                                   | Front I/O<br>2 x USB 2.0<br>Rear I/O<br>2 x USB 2.0<br>2 x USB 3.2                                                                                                                                                   |
| COM Port                | 2 x RS-232/422/485                                                                                                                                                                                                   | 1 x RS-232<br>2 x RS-232/422/485                                                                                                                                                                                     |
| Display Chipset         | Intel® UHD Graphics                                                                                                                                                                                                  | Intel® UHD Graphics                                                                                                                                                                                                  |
| Display Resolution      | HDMI 1.4b: 3840 x 2160 @ 30Hz<br>DP++ 1.4a: 4096 x 2304 @ 60Hz                                                                                                                                                       | HDMI 1.4b: 3840 x 2160 @ 30Hz<br>DP++ 1.4a: 4096 x 2304 @ 60Hz                                                                                                                                                       |
| Audio Chipset           | Realtek HD Audio                                                                                                                                                                                                     | Realtek HD Audio                                                                                                                                                                                                     |
| Ethernet Chipset        | Intel® I219-LM Ethernet Controller (1GbE)<br>Intel® I225-V Ethernet Controller (2.5GbE)                                                                                                                              | Intel® I219-V Ethernet Controller (1GbE)<br>Intel® I225-LM Ethernet Controller (2.5GbE)                                                                                                                              |
| Ethernet Interface      | 2 x RJ45                                                                                                                                                                                                             | 2 x RJ45                                                                                                                                                                                                             |
| Power Supply            | 220W Flex ATX Power Supply                                                                                                                                                                                           | AC to DC Adapter                                                                                                                                                                                                     |
| Voltage Input Spec.     | 100 Vac~240 Vac                                                                                                                                                                                                      | +12/24Vdc (+9V ~ +36V)                                                                                                                                                                                               |
| ACPI                    | Single Power ATX Support S0, S3, S4, S5                                                                                                                                                                              | Single Power ATX Support S0, S3, S4, S5                                                                                                                                                                              |
| Power Mode              | AT/ ATX Mode (Default: ATX Mode)                                                                                                                                                                                     | AT/ ATX Mode (Default: ATX Mode)                                                                                                                                                                                     |
| Color                   | Black                                                                                                                                                                                                                | Black                                                                                                                                                                                                                |
| Dimension (W x D x H)   | 280 x 265 x 75 mm                                                                                                                                                                                                    | 215 x 210 x 55 mm                                                                                                                                                                                                    |
| System Cooling          | 60 x 60 x 25mm Fan                                                                                                                                                                                                   | 40 x 40 x 15 mm                                                                                                                                                                                                      |
| Gross Weight            | 4.7 Kg                                                                                                                                                                                                               | 2.2 kg                                                                                                                                                                                                               |
| Operating Temp.         | 0°C~40°C (32°F~104°F) with 0.5m/s Air Flow                                                                                                                                                                           | 0°C~40°C (32°F~104°F) with 0.5m/s Air Flow                                                                                                                                                                           |
| Certification           | CE, FCC Class B, UKCA                                                                                                                                                                                                | CE, FCC Class A, UKCA                                                                                                                                                                                                |

# ラックマウントシステム

## » 1U Racmount Chassis » 2U Racmount Chassis » 4U Racmount Chassis



| Model Name               | BCC-CASE-R1U0-01R                                                   | BCC-CASE-R2U0-01R                                        | BCC-CASE-R4U0-02R                                                           |
|--------------------------|---------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|
| M/B Form Factor          | Up to 12" (W) x 9.6" (D) ATX Compliant MB                           | Up to 12" (W) x 9.6" (D) ATX Compliant MB                | Up to 12" (W) x 9.6" (D) ATX Compliant MB                                   |
| Industry Standard        | Compatible with EIA-RS310D Standard 19" Cabinets                    | Compatible with EIA-RS310D Standard 19" Cabinets         | Compatible with EIA-RS310D Standard 19" Cabinets                            |
| Dimension (W x D x H)    | 381 x 482.6 x 44.4 mm                                               | 504 x 482.6 x 88.9 mm                                    | 504 x 482.6 x 88.9 mm                                                       |
| Drive Bay                | External: Slim ODD x 1<br>Internal: 3.5" x 2 or 3.5" x 1 & 2.5" x 1 | External: 5.25" x 2<br>Internal: 3.5" x 4                | External: 5.25" x 3, 3.5" x 1<br>Internal: 3.5" x 3, or 3.5" x 2 & 2.5" x 1 |
| Expansion Slot           | 1 x Full Height Via Riser Card                                      | 7 x Low Profile or 3 x Full Profile                      | 7 x Full Profile                                                            |
| System Cooling           | 2 x 40 x 28 mm Fans                                                 | 2 x 80 x 25 mm Fans<br>1 x 97 mm Blower (Rear)           | 2 x 80 x 25 mm Fans<br>1 x 97 mm Blower (Rear)                              |
| Front I/O                | 2 x USB Ports                                                       | 2 x USB Ports                                            | 2 x USB Ports                                                               |
| Button                   | System Power on/off<br>System Reset                                 | System Power on/off<br>System Reset                      | System Power on/off<br>System Reset                                         |
| LED                      | Power LED<br>HDD LED<br>LAN 1<br>LAN 2                              | Power Status<br>LAN Activity<br>Drive Activity           | Power Status<br>LAN Activity                                                |
| Limitation of CPU Cooler | Depend on CPU TDP                                                   | Depend on CPU TDP                                        | Depend on CPU TDP                                                           |
| Power Supply             | 315W 1U Flex 100-240Vac (Included)                                  | 500W PS2 100-240Vac Power Supply                         | 500W PS2 100-240Vac Power Supply                                            |
| Material                 | Material: SGCC<br>Thickness: 1.0mm                                  | Material: SGCC<br>Thickness: 1.2mm                       | Material: SGCC<br>Thickness: 1.2mm                                          |
| Rail Kit                 | Supports 20" Friction Slide Rail                                    | Supports 28" Tool-less & Ball-bearing Slide Rails        | Supports 28" Tool-less & Ball-bearing Slide Rails                           |
| Operating Temperature    | 0°C ~ 35°C (32°F ~ 95°F), (w/HDD), Ambient<br>w/ Air Flow           | 0°C ~ 35°C (32°F ~95°F), (w/HDD), Ambient<br>w/ Air Flow | 0 ~ 40°C (32°F ~ 104°F) w/ SSD, Ambient w/ 0.5m/s<br>Air Flow               |
| Weight (Chassis Only)    | Net Weight: 3.67 kg<br>Gross Weight: 4.79 kg                        | Net Weight: 7.18 kg<br>Gross Weight: 10.12 kg            | Net Weight: 11.5 kg<br>Gross Weight: 14.7 kg                                |

# High Performance Computing



### すぐに運用可能

限られたスペースの中で、既存のサーバーラック、キャビネット、またはシステムシャーシ内での簡単なアップグレード



### IPMI 2.0 対応

リアルタイムシステム監視機能を備えたオンボードBMC/IPMI技術を搭載し、予防保守を提供してシステムダウンタイムを最小化し、フィールドサービスコストを削減します。



### ライフサイクルの延長

Intel®は、IoT市場の需要に対応するため、IOTGロードマップ製品の製品提供期間を15年間に延長しました。(Intel® IOTGロードマップに基づく)

## ハイパフォーマンスコンピューティングの標準モデル



### マザーボード

- システムレベルの設計およびテストを提供
- ISO認証を取得した製造施設



### ベアボーンシステム

- 高速I/Oアダプターおよびアクセサリを提供
- 基本的なシステムレベルの統合およびテストを提供



### 完全統合システム

- 完全テスト済みシステム
- ハードウェアに関連する経験やノウハウがなくても運用可能



### 生成AIソリューション

- 低いTCOでオンプレミスのGenAIエンタープライズを構築
- 即使用可能
- 組織のデータセキュリティとプライバシー保護の実装

### ヘルスケア

- 精密診断／ライフサイエンス

### メディカル

- 先進医療画像処理技術

### コミュニケーション

- ワークフローを加速させる優れたワークステーション

### スマート製造

- 機械視覚/革新的な分析

### スマートシティ

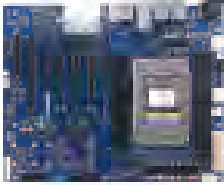
- スマート公共安全および執行技術

## 生成 AI ソリューション



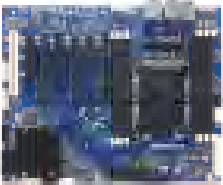
| Model Number            | GAI-ERS-70B                                                                                                                                                                                                                                                                                      | GAI-ERS-70B-Lite                                                                                                                                                                                                                                                                                                                       | GAI-ERS-33B                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor (CPU Type)    | 1 x Intel® Xeon® Silver 4510 or Above                                                                                                                                                                                                                                                            | 1 x Intel® Xeon® Silver 4510 or Above                                                                                                                                                                                                                                                                                                  | 1 x Intel® Xeon® Silver 4510 or Above                                                                                                                                                                                                                                                            |
| Chipset                 | Intel® C741 Chipset                                                                                                                                                                                                                                                                              | Intel® C741 Chipset                                                                                                                                                                                                                                                                                                                    | Intel® C741 Chipset                                                                                                                                                                                                                                                                              |
| Memory                  | 6 x DDR5 4800 96GB RDIMM 288pin 0 ~ 85°C (Total 576 GB)                                                                                                                                                                                                                                          | 6 x DDR5 4800 96GB RDIMM 288pin 0 ~ 85°C (Total 576 GB)                                                                                                                                                                                                                                                                                | 4 x DDR5 5600 64GB RDIMM 288pin 0 ~ 85°C (Total 256 GB)                                                                                                                                                                                                                                          |
| Storage                 | 2 x M.2 2280 NVMe SSD 2TB Gen4 AI100E With Riser Card<br>1 x M.2 2280 SATA3 SSD 4TB 3D TLC for OS                                                                                                                                                                                                | 2 x M.2 2280 NVMe SSD 2TB Gen4 AI100E With Riser Card<br>1 x M.2 2280 SATA3 SSD 4TB 3D TLC for OS                                                                                                                                                                                                                                      | 2 x M.2 2280 NVMe SSD 2TB Gen4 AI100E With Riser Card<br>1 x M.2 2280 SATA3 SSD 4TB 3D TLC for OS                                                                                                                                                                                                |
| IPMI                    | IPMI 2.0                                                                                                                                                                                                                                                                                         | IPMI 2.0                                                                                                                                                                                                                                                                                                                               | IPMI 2.0                                                                                                                                                                                                                                                                                         |
| Expansion Slots         | 4 x PCIe Gen5 x16 Slots<br>3 x PCIe Gen5 x4 Slots<br>Slot 1, PCIe 5.0 x16 (GPU: RTX6000 Ada)<br>Slot 2, PCIe 5.0 x4<br>Slot 3, PCIe 5.0 x16<br>Slot 4, PCIe 5.0 x4<br>Slot 5, PCIe 5.0 x16 (GPU: RTX6000 Ada)<br>Slot 6, PCIe 5.0 x4<br>Slot 7, PCIe 5.0 x16 (Slot 7 is the Slot Closest to CPU) | 4 x PCIe Gen5 x16 Slots<br>3 x PCIe Gen5 x4 Slots<br>Slot 1, PCIe 5.0 x16 (GPU: RTX4000 Ada)<br>Slot 2, PCIe 5.0 x4<br>Slot 3, PCIe 5.0 x16 (GPU: RTX4000 Ada)<br>Slot 4, PCIe 5.0 x4<br>Slot 5, PCIe 5.0 x16 (GPU: RTX4000 Ada)<br>Slot 6, PCIe 5.0 x4<br>Slot 7, PCIe 5.0 x16 (GPU: RTX4000 Ada) (Slot 7 is the Slot Closest to CPU) | 4 x PCIe Gen5 x16 Slots<br>3 x PCIe Gen5 x4 Slots<br>Slot 1, PCIe 5.0 x16 (GPU: RTX4000 Ada)<br>Slot 2, PCIe 5.0 x4<br>Slot 3, PCIe 5.0 x16<br>Slot 4, PCIe 5.0 x4<br>Slot 5, PCIe 5.0 x16 (GPU: RTX4000 Ada)<br>Slot 6, PCIe 5.0 x4<br>Slot 7, PCIe 5.0 x16 (Slot 7 is the Slot Closest to CPU) |
| LAN                     | 5 x RJ45<br>MGMT Port for Dedicated IPMI Access Only<br>LAN1 Port for 1GbE Shares with IPMI Access<br>LAN2 Port for 2.5GbE<br>LAN3 and 4 Ports for 10GbE                                                                                                                                         | 5 x RJ45<br>MGMT Port for Dedicated IPMI Access Only<br>LAN1 Port for 1GbE Shares with IPMI Access<br>LAN2 Port for 2.5GbE<br>LAN3 and 4 Ports for 10GbE                                                                                                                                                                               | 5 x RJ45<br>MGMT Port for Dedicated IPMI Access Only<br>LAN1 Port for 1GbE Shares with IPMI Access<br>LAN2 Port for 2.5GbE<br>LAN3 and 4 Ports for 10GbE                                                                                                                                         |
| USB                     | Rear: 4 x USB 3.2 Gen1 Ports<br>2 x USB 2.0 Type A Ports                                                                                                                                                                                                                                         | Rear: 4 x USB 3.2 Gen1 Ports<br>2 x USB 2.0 Type A Ports                                                                                                                                                                                                                                                                               | Rear: 4 x USB 3.2 Gen1 Ports<br>2 x USB 2.0 Type A Ports                                                                                                                                                                                                                                         |
| Display                 | AST 2600 BMC Controller                                                                                                                                                                                                                                                                          | AST 2600 BMC Controller                                                                                                                                                                                                                                                                                                                | AST 2600 BMC Controller                                                                                                                                                                                                                                                                          |
| Display Resolution      | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                    | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                                                          | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                    |
| Cooling Fan             | 1 x 120 x 25mm Front Fan<br>2 x 80 x 25mm Rear Fans                                                                                                                                                                                                                                              | 1 x 120 x 25mm Front Fan<br>2 x 80 x 25mm Rear Fans                                                                                                                                                                                                                                                                                    | 1 x 120 x 25mm Front Fan<br>2 x 80 x 25mm Rear Fans                                                                                                                                                                                                                                              |
| Power Supply            | 1 x 1300W PS2 ATX PSU                                                                                                                                                                                                                                                                            | 1 x 1300W PS2 ATX PSU                                                                                                                                                                                                                                                                                                                  | 1 x 1300W PS2 ATX PSU                                                                                                                                                                                                                                                                            |
| Operating Temp.         | 0 ~ 35°C (32 ~ 95°F)                                                                                                                                                                                                                                                                             | 0 ~ 35°C (32 ~ 95°F)                                                                                                                                                                                                                                                                                                                   | 0 ~ 35°C (32 ~ 95°F)                                                                                                                                                                                                                                                                             |
| Dimension ( W x H x D ) | 482.6 x 174.8 x 528 mm with Ear Mount                                                                                                                                                                                                                                                            | 482.6 x 174.8 x 528 mm with Ear Mount                                                                                                                                                                                                                                                                                                  | 482.6 x 174.8 x 528 mm with Ear Mount                                                                                                                                                                                                                                                            |
| Form Factor             | 19" 4U Rackmount                                                                                                                                                                                                                                                                                 | 19" 4U Rackmount                                                                                                                                                                                                                                                                                                                       | 19" 4U Rackmount                                                                                                                                                                                                                                                                                 |
| OS                      | Ubuntu 22.04 LTS                                                                                                                                                                                                                                                                                 | Ubuntu 22.04 LTS                                                                                                                                                                                                                                                                                                                       | Ubuntu 22.04 LTS                                                                                                                                                                                                                                                                                 |

サーバーボード



| Model Number      | HPM-ERSUA                                                                                                                                                                                                                                                      | HPM-ERSDE                                                                                                                                                                                                                                                                                                    | HPM-SIEUA                                                                                                                                                                                                                                                     |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | Intel LGA4677 Socket Supports 4th and 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)                                                                                                                                                        | Dual Intel LGA4677 Sockets Support 4th and 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W Each)                                                                                                                                                                                            | AMD SP6 Socket Supports 4th Generation AMD EPYC Processor (Max. TDP at 225W)                                                                                                                                                                                  |
| System Chipset    | Intel® C741 Chipset                                                                                                                                                                                                                                            | Intel® C741 Chipset                                                                                                                                                                                                                                                                                          | N/A                                                                                                                                                                                                                                                           |
| System Memory     | 6 x DDR5 5600MHz RDIMM up to 1.5TB                                                                                                                                                                                                                             | 12 x DDR5 5600MHz RDIMM up to 3TB                                                                                                                                                                                                                                                                            | 6 x DDR5 4800/ 4400MHz RDIMM up to 1.5TB                                                                                                                                                                                                                      |
| Expansion         | 4 x PCIe Gen5 x16 Slots and 3 x PCIe Gen5 x4 Slots<br>Slot 1, PCIe 5.0 x16<br>Slot 2, PCIe 5.0 x4<br>Slot 3, PCIe 5.0 x16<br>Slot 4, PCIe 5.0 x4<br>Slot 5, PCIe 5.0 x16<br>Slot 6, PCIe 5.0 x4<br>Slot 7, PCIe 5.0 x16<br>(Slot 7 is the Slot Closest to CPU) | 7 x PCIe Gen5 x16 Slots<br>Slot 1, PCIe 5.0 x16 from CPU2<br>Slot 2, PCIe 5.0 x16 from CPU1<br>Slot 3, PCIe 5.0 x16 from CPU2<br>Slot 4, PCIe 5.0 x16 from CPU1<br>Slot 5, PCIe 5.0 x16 from CPU2<br>Slot 6, PCIe 5.0 x16 from CPU1<br>Slot 7, PCIe 5.0 x16 from CPU2<br>(Slot 7 is the Slot Closest to CPU) | 3 x PCIe Gen5 x16 Slots and 4 x PCIe Gen5 x8 Slots<br>Slot 1, PCIe 5.0 x8<br>Slot 2, PCIe 5.0 x16<br>Slot 3, PCIe 5.0 x8<br>Slot 4, PCIe 5.0 x16<br>Slot 5, PCIe 5.0 x8<br>Slot 6, PCIe 5.0 x16<br>Slot 7, PCIe 5.0 x8<br>(Slot 7 is the Slot Closest to CPU) |
| Display           | AST 2600 BMC Controller                                                                                                                                                                                                                                        | AST 2600 BMC Controller                                                                                                                                                                                                                                                                                      | AST 2600 BMC Controller                                                                                                                                                                                                                                       |
| Resolution        | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                  | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                                | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                 |
| Ethernet          | 1 x Intel® I210AT Giga-bit Ethernet<br>1 x Intel® I226-LM 2.5Giga-bit Ethernet<br>1 x Intel® X550-AT2 10Giga-bit Ethernet                                                                                                                                      | 1 x Intel® I210AT Giga-bit Ethernet<br>1 x Intel® I226-LM 2.5Giga-bit Ethernet<br>1 x Intel® X550-AT2 10Giga-bit Ethernet                                                                                                                                                                                    | 1 x Intel® I210AT Giga-bit Ethernet<br>1 x Intel® I226-LM 2.5Giga-bit Ethernet<br>1 x Intel® X550-AT2 10Giga-bit Ethernet                                                                                                                                     |
| USB/SATA/COM/LAN  | 10/5/2/5                                                                                                                                                                                                                                                       | 12/5/2/5                                                                                                                                                                                                                                                                                                     | 4/4/2/5                                                                                                                                                                                                                                                       |
| Power Requirement | 1 x Std. 24 Pin ATX Connector<br>3 x 8 Pin SSI 12V Connectors                                                                                                                                                                                                  | 1 x Std. 24 Pin ATX Connector<br>3 x 8 Pin SSI 12V Connectors                                                                                                                                                                                                                                                | 1 x Std. 24 Pin ATX Connector<br>3 x 8 Pin SSI 12V Connectors                                                                                                                                                                                                 |
| IPMI              | IPMI 2.0                                                                                                                                                                                                                                                       | IPMI 2.0                                                                                                                                                                                                                                                                                                     | IPMI 2.0                                                                                                                                                                                                                                                      |
| Operating Temp.   | 0 ~ 55°C (32 ~ 131°F) to Support up to 250W TDP CPU<br>0 ~ 45°C (32 ~ 113°F) to Support up to 270W TDP CPU                                                                                                                                                     | 0 ~ 50°C (32 ~ 122°F) to Support up to 250W TDP CPU<br>0 ~ 40°C (32 ~ 104°F) to Support up to 270W TDP CPU                                                                                                                                                                                                   | 0 ~ 45°C (32 ~ 113°F) to Support up to 225W TDP CPU                                                                                                                                                                                                           |
| Dimension (L x W) | 12" x 9.6" (304.8 x 243.84 mm)<br>PCB Thickness is 2.54 mm                                                                                                                                                                                                     | 12" x 16.452" (304.8 x 417.88 mm)<br>PCB Thickness is 2.86 mm                                                                                                                                                                                                                                                | 12" x 9.6" (304.8 x 243.84 mm)<br>PCB Thickness is 2.0 mm                                                                                                                                                                                                     |
| Weight            | 2.62 lbs (1.19 kg)                                                                                                                                                                                                                                             | 4.85 lbs (2.2 kg)                                                                                                                                                                                                                                                                                            | 2.14 lbs (0.97 kg)                                                                                                                                                                                                                                            |

サーバーボード



| HPM-621DE                                                                                                                                                                                                                                                                                                                              | HPM-621UA                                                                                                                                                                                                                                                                                                                                                                                                                                            | HPM-246UA                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dual Intel FCLGA3647 Sockets Support 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W Each)                                                                                                                                                                                                                   | Intel FCLGA3647 Socket Supports 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W)                                                                                                                                                                                                                                                                                                                                           | Intel® LGA1151 Socket Supports 8th/ 9th Gen. Core i7/i5/i3/ Pentium/ Celeron/ Xeon E Processors (Max. TDP at 95W)                                                                                                                                                                          |
| Intel® C621 Chipset                                                                                                                                                                                                                                                                                                                    | Intel® C621 Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                  | Intel® C246 Chipset                                                                                                                                                                                                                                                                        |
| 12 x DDR4 2933/ 2666/ 2400/ 2133MHz RDIMM/ LRDIMM up to 1.5TB                                                                                                                                                                                                                                                                          | 6 x DDR4 2933/ 2666/ 2400/ 2133MHz RDIMM/ LRDIMM up to 768GB                                                                                                                                                                                                                                                                                                                                                                                         | 4 x DDR4 2666MHz ECC and Non-ECC DIMM Support up to 128GB (ECC Memory Supported by Specific CPU SKUs)                                                                                                                                                                                      |
| 4 x PCIe Gen3 x16 Slots<br>2 x PCIe Gen3 x8 Slots<br>1 x PCI 3.0 Slot<br>Slot 1, PCIe 3.0 x16 from CPU1<br>Slot 2, PCI 3.0<br>Slot 3, PCIe 3.0 x16 from CPU1<br>Slot 4, PCIe 3.0 x16 from CPU2<br>Slot 5, PCIe 3.0 x16 from CPU2<br>Slot 6, PCIe 3.0 x8 from CPU1<br>Slot 7, PCIe 3.0 x8 from CPU1 (Slot 7 is the Slot Closest to CPU) | 1 x PCI 3.0 Slot, 3 x PCIe Gen3 x16 Slots or 6 x PCIe Gen3 x8 Slots<br>Slot 1, PCI 3.0<br>Slot 2, PCIe 3.0 x8<br>Slot 3, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 2 is Used)<br>Slot 4, PCIe 3.0 x8<br>Slot 5, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 4 is Used)<br>Slot 6, PCIe 3.0 x8<br>Slot 7, PCIe 3.0 x16 (Slot 7 is the Slot Closest to CPU, x16 will Switch to x8 Automatically when Slot 6 is Used) | 1 x PCIe Gen3 x16 Slot, 1 x PCIe Gen2 x8 Slot, 1 x PCIe Gen3 x4 Slot, 1 x PCIe Gen3 x1 Slot<br>1 x PCI 3.0 Slot<br>Slot 1, PCI 3.0<br>Slot 2, PCIe Gen 3.0 x 16<br>Slot 3, PCIe Gen 2.0 x 8<br>Slot 4, PCIe Gen 3.0 x 4<br>Slot 5, PCIe Gen 3.0 x 1<br>(Slot 5 is the Slot Closest to CPU) |
| AST 2500 BMC Controller                                                                                                                                                                                                                                                                                                                | AST 2500 BMC Controller                                                                                                                                                                                                                                                                                                                                                                                                                              | Intel® 8/ 9th Generation CPU Integrated<br>AST 2500 BMC Controller                                                                                                                                                                                                                         |
| 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                                                          | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                                                                                                                                                                        | 3 x DP++ Ports<br>DP: 4096 x 2304 @ 60Hz<br>HDMI : 4096 x 2160 @ 30Hz<br>1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                     |
| 4 x Intel® I210AT Giga-bit Ethernet                                                                                                                                                                                                                                                                                                    | 4 x Intel® I210AT Giga-bit Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                  | 7 x Intel® I210AT Giga-bit Ethernet                                                                                                                                                                                                                                                        |
| 8/10/2/4                                                                                                                                                                                                                                                                                                                               | 8/9/2/4                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8/4/2/7                                                                                                                                                                                                                                                                                    |
| 1 x Std. 24 Pin ATX Connector<br>2 x 8 Pin SSI 12V Connectors                                                                                                                                                                                                                                                                          | 1 x Std. 24 Pin ATX Connector<br>1 x 8 Pin SSI 12V Connector                                                                                                                                                                                                                                                                                                                                                                                         | 1 x Std. 24 pin ATX Connector<br>1 x 8 Pin SSI 12V Connector                                                                                                                                                                                                                               |
| IPMI 2.0                                                                                                                                                                                                                                                                                                                               | IPMI 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                             | IPMI 2.0                                                                                                                                                                                                                                                                                   |
| 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                                                                                                                                                                                                              | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                                                                                                                                                                                                                                                                                                                            | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                                                                                                                                                                                  |
| 12" x 13" (304.8 x 330.2 mm)<br>PCB Thickness is 2.0 mm                                                                                                                                                                                                                                                                                | 12" x 9.6" (304.8 x 243.84 mm)<br>PCB Thickness is 2.0 mm                                                                                                                                                                                                                                                                                                                                                                                            | 12" x 9.6" (304.8 x 243.84 mm)<br>PCB Thickness is 2.0 mm                                                                                                                                                                                                                                  |
| 3.96 lbs (1.8 kg)                                                                                                                                                                                                                                                                                                                      | 2.14 lbs (0.97 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.54 lbs (0.7 kg)                                                                                                                                                                                                                                                                          |



ラックマウント & タワー型ワークステーション



| Model Number            | HPS-ERSD4A                                                                                                                                                                                                                                                                                                                     | HPS-ERSUTA                                                | HPS-ERSU4A                                                                                                                                                                                                                                                                          | HPS-SIEU4A                                                | HPS-SIEUTA                                                                                                                                                                                                                                                 |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor (CPU Type)    | Dual Intel FCLGA4677 Sockets Support 4th and 5th Gen. Intel Xeon Scalable Processors (Max. TDP at 270W Each)                                                                                                                                                                                                                   |                                                           | Intel LGA4677 Socket Supports 4th and 5th Generation Intel® Xeon® Scalable Processor (Max. TDP at 270W)                                                                                                                                                                             |                                                           | AMD LGA4844 Socket Support 4th Generation AMD EPYC 8004 Processors (Max. TDP at 225W)                                                                                                                                                                      |
| Chipset                 | Intel® C741 Chipset                                                                                                                                                                                                                                                                                                            |                                                           | Intel® C741 Chipset                                                                                                                                                                                                                                                                 |                                                           | N/A                                                                                                                                                                                                                                                        |
| Memory                  | 12 x DDR5 5600MHz RDIMM up to 3TB                                                                                                                                                                                                                                                                                              |                                                           | 6 x DDR5 5600MHz RDIMM up to 1.5TB                                                                                                                                                                                                                                                  |                                                           | 6 x DDR5 4800/4400MHz RDIMM up to 1.5TB                                                                                                                                                                                                                    |
| Storage                 | 3 x Front Accessible 2.5" Storage Bays                                                                                                                                                                                                                                                                                         |                                                           | 3 x Front Accessible 2.5" Storage Bays                                                                                                                                                                                                                                              |                                                           | 3 x Front Accessible 2.5" Storage Bays                                                                                                                                                                                                                     |
| IPMI                    | IPMI 2.0                                                                                                                                                                                                                                                                                                                       |                                                           | IPMI 2.0                                                                                                                                                                                                                                                                            |                                                           | IPMI 2.0                                                                                                                                                                                                                                                   |
| Expansion Slots         | 7 x PCIe Gen5 x16 Slots<br>Slot 1, PCIe 5.0 x16 from 2nd CPU<br>Slot 2, PCIe 5.0 x16 from 1st CPU<br>Slot 3, PCIe 5.0 x16 from 2nd CPU<br>Slot 4, PCIe 5.0 x16 from 1st CPU<br>Slot 5, PCIe 5.0 x16 from 2nd CPU<br>Slot 6, PCIe 5.0 x16 from 1st CPU<br>Slot 7, PCIe 5.0 x16 from 2nd CPU (Slot 7 is the Slot Closest to CPU) |                                                           | 4 x PCIe Gen5 x16 Slots and 3 x PCIe Gen5 x4 Slots<br>Slot 1, PCIe 5.0 x16<br>Slot 2, PCIe 5.0 x4<br>Slot 3, PCIe 5.0 x16<br>Slot 4, PCIe 5.0 x16<br>Slot 5, PCIe 5.0 x4<br>Slot 6, PCIe 5.0 x16<br>Slot 7, PCIe 5.0 x4<br>Slot 7, PCIe 5.0 x16 (Slot 7 is the Slot Closest to CPU) |                                                           | 3 x PCIe Gen5 x16 Slots and 4 x PCIe Gen5 x8 Slots<br>Slot 1, PCIe 5.0 x8<br>Slot 2, PCIe 5.0 x16<br>Slot 3, PCIe 5.0 x8<br>Slot 4, PCIe 5.0 x16<br>Slot 5, PCIe 5.0 x8<br>Slot 6, PCIe 5.0 x16<br>Slot 7, PCIe 5.0 x8 (Slot 7 is the Slot Closest to CPU) |
| LAN                     | 5 x RJ45<br>MGMT Port for Dedicated IPMI Access Only<br>LAN1 Port for 1GbE Shares with IPMI Access<br>LAN2 Port for 2.5GbE<br>LAN3 and 4 Ports for 10GbE                                                                                                                                                                       |                                                           | 5 x RJ45<br>MGMT Port for Dedicated IPMI Access Only<br>LAN1 Port for 1GbE Shares with IPMI Access<br>LAN2 Port for 2.5GbE<br>LAN3 and 4 Ports for 10GbE                                                                                                                            |                                                           | 5 x RJ45<br>MGMT Port for Dedicated IPMI Access Only<br>LAN1 Port for 1GbE Shares with IPMI Access<br>LAN2 Port for 2.5GbE<br>LAN3 and 4 Ports for 10GbE                                                                                                   |
| USB                     | Front: 2 x USB 3.2 Gen1 Ports<br>Rear: 6 x USB 3.2 Gen1 Ports                                                                                                                                                                                                                                                                  |                                                           | Front: 2 x USB 3.2 Gen1 Ports<br>Rear: 4 x USB 3.2 Gen1 Ports + 2 x USB 2.0 Type A Ports                                                                                                                                                                                            |                                                           | Front: 2 x USB 3.2 Gen1 Ports<br>Rear: 4 x USB 3.2 Gen1 Ports                                                                                                                                                                                              |
| Display                 | AST 2600 BMC Controller                                                                                                                                                                                                                                                                                                        |                                                           | AST 2600 BMC Controller                                                                                                                                                                                                                                                             |                                                           | AST 2600 BMC Controller                                                                                                                                                                                                                                    |
| Display Resolution      | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                                                  |                                                           | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                       |                                                           | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                              |
| Cooling Fan             | 1 x 120 x 25mm Front Fan<br>2 x 80 x 25mm Rear Fans                                                                                                                                                                                                                                                                            |                                                           | 1 x 120 x 25mm Front Fan<br>2 x 80 x 25mm Rear Fans                                                                                                                                                                                                                                 |                                                           | 1 x 120 x 25mm Front Fan<br>2 x 80 x 25mm Rear Fans                                                                                                                                                                                                        |
| Power Supply            | 1 x 1300W PS2 ATX PSU                                                                                                                                                                                                                                                                                                          |                                                           | 1 x 1300W PS2 ATX PSU                                                                                                                                                                                                                                                               |                                                           | 1 x 1300W PS2 ATX PSU                                                                                                                                                                                                                                      |
| Operating Temp.         | 0 ~ 35°C (32 ~ 95°F)                                                                                                                                                                                                                                                                                                           |                                                           | 0°C ~ 35°C (32°C ~ 95°F)                                                                                                                                                                                                                                                            |                                                           | 0°C ~ 35°C (32°C ~ 95°F)                                                                                                                                                                                                                                   |
| Dimension ( W x H x D ) | 482.6 x 174.8 x 650 mm with Ear Mount                                                                                                                                                                                                                                                                                          | 340 x 488 x 650 mm with External Handles & Pedestal Stand | 482.6 x 174.8 x 528 mm with Ear Mount                                                                                                                                                                                                                                               | 340 x 488 x 528 mm with External Handles & Pedestal Stand | 482.6 x 174.8 x 528 mm with Ear Mount<br>340 x 488 x 528 mm with External Handles & Pedestal Stand                                                                                                                                                         |
| Form Factor             | 19" 4U Rackmount                                                                                                                                                                                                                                                                                                               | Tower Chassis                                             | 19" 4U Rackmount                                                                                                                                                                                                                                                                    | Tower Chassis                                             | 19" 4U Rackmount<br>Tower Chassis                                                                                                                                                                                                                          |
| OS                      | Windows 10 IoT Enterprise LTSC 2021, Windows 11<br>Windows Server 2019, Windows Server 2022<br>Ubuntu 21.10, 22.04 LTS or Later<br>Red Hat Enterprise Linux (RHEL) 8.2 and Later                                                                                                                                               |                                                           |                                                                                                                                                                                                                                                                                     |                                                           | Windows Server 2019 bare-metal support (KB5017379) & Hyper-V support (KB5018419)<br>Windows Server 2022<br>Ubuntu 20.04/22.04 LTS or later<br>Red Hat Enterprise Linux (RHEL) 8.2 and later                                                                |

ラックマウント & タワー型ワークステーション



| HPS-621U4A                                                                                                                                                                                                                                                                                                                                                                                                                                           | HPS-621UTA                                                                                                                                                                                                                                                                                                                           | HPS-621D4A                                                              | HPS-621DTA                                                                                                                                                                                                                                                                                | HPS-246U4A                            | HPS-246UTA                                                                                                                                                                                                                                                                                                                                                                                                                                           | HPS-621U2A        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Intel FCLGA3647 Socket Supports 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W)                                                                                                                                                                                                                                                                                                                                           | Dual Intel FCLGA3647 Sockets Support 1st and 2nd Generation Intel® Xeon® Scalable Processors (Max. TDP at 150W Each)                                                                                                                                                                                                                 |                                                                         | Intel® LGA1151 Socket Supports 8th/ 9th Generation Core i7/i5/i3/ Pentium/ Celeron/ Xeon E Processors (Max. TDP at 95W)                                                                                                                                                                   |                                       | Intel® FCLGA3647 Socket Supports 1st and 2nd Generation Intel® Xeon Scalable Processors (Max. TDP at 150W)                                                                                                                                                                                                                                                                                                                                           |                   |
| Intel® C621 Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                  | Intel® C621 Chipset                                                                                                                                                                                                                                                                                                                  |                                                                         | Intel® C246 Chipset                                                                                                                                                                                                                                                                       |                                       | Intel® C621 Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |
| 6 x DDR4 2933/ 2666/ 2400/ 2133MHz RDIMM/ LRDIMM up to 768GB                                                                                                                                                                                                                                                                                                                                                                                         | 12 x DDR4 2933/ 2666/ 2400/ 2133 MHz RDIMM/ LRDIMM up to 1.5TB                                                                                                                                                                                                                                                                       |                                                                         | 4 x DDR4 2666MHz ECC and Non-ECC DIMM Support up to 128GB (ECC Memory Supported by Specific CPU SKUs)                                                                                                                                                                                     |                                       | 6 x DDR4 2933/ 2666/ 2400/ 2133MHz RDIMM/ LRDIMM up to 768GB                                                                                                                                                                                                                                                                                                                                                                                         |                   |
| 3 x Front Accessible 2.5" Storage Bays                                                                                                                                                                                                                                                                                                                                                                                                               | 3 x Front Accessible 2.5" Storage Bays                                                                                                                                                                                                                                                                                               |                                                                         | 3 x Front Accessible 2.5" Storage Bays                                                                                                                                                                                                                                                    |                                       | 4 x External 5.25" Storage Bays<br>2 x Internal 3.5" Storage Bays                                                                                                                                                                                                                                                                                                                                                                                    |                   |
| IPMI 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                             | IPMI 2.0                                                                                                                                                                                                                                                                                                                             |                                                                         | IPMI 2.0                                                                                                                                                                                                                                                                                  |                                       | IPMI 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
| 1 x PCI 3.0 Slot, 3 x PCIe Gen3 x16 Slots or 6 x PCIe Gen3 x8 Slots<br>Slot 1, PCI 3.0<br>Slot 2, PCIe 3.0 x8<br>Slot 3, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 2 is Used)<br>Slot 4, PCIe 3.0 x8<br>Slot 5, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 4 is Used)<br>Slot 6, PCIe 3.0 x8<br>Slot 7, PCIe 3.0 x16 (Slot 7 is the Slot Closest to CPU, x16 will Switch to x8 Automatically when Slot 6 is Used) | 4 x PCIe Gen3 x16 Slots, 2 x PCIe Gen3 x8 Slots<br>1 x PCI 3.0 Slot<br>Slot 1, PCIe 3.0 x16 from CPU1<br>Slot 2, PCI 3.0<br>Slot 3, PCIe 3.0 x16 from CPU1<br>Slot 4, PCIe 3.0 x16 from CPU2<br>Slot 5, PCIe 3.0 x16 from CPU2<br>Slot 6, PCIe 3.0 x8 from CPU1<br>Slot 7, PCIe 3.0 x8 from CPU1 (Slot 7 is the Slot Closest to CPU) |                                                                         | 1 x PCIe Gen3 x16 Slot, 1 x PCIe Gen2 x8 Slot<br>1 x PCIe Gen3 x4 Slot, 1 x PCIe Gen3 x1 Slot<br>1 x PCI 3.0 slot<br>Slot 1, PCI 3.0<br>Slot 2, PCIe Gen 3.0 x 16<br>Slot 3, PCIe Gen 2.0 x 8<br>Slot 4, PCIe Gen 3.0 x 4<br>Slot 5, PCIe Gen 3.0 x 1 (Slot 5 is the Slot Closest to CPU) |                                       | 1 x PCI 3.0 Slot, 3 x PCIe Gen3 x16 Slots or 6 x PCIe Gen3 x8 Slots<br>Slot 1, PCI 3.0<br>Slot 2, PCIe 3.0 x8<br>Slot 3, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 2 is Used)<br>Slot 4, PCIe 3.0 x8<br>Slot 5, PCIe 3.0 x16 (x16 will Switch to x8 Automatically when Slot 4 is Used)<br>Slot 6, PCIe 3.0 x8<br>Slot 7, PCIe 3.0 x16 (Slot 7 is the Slot Closest to CPU, x16 will Switch to x8 Automatically when Slot 6 is Used) |                   |
| 4 x RJ45 (LAN1 Shares IPMI Port)                                                                                                                                                                                                                                                                                                                                                                                                                     | 4 x RJ45 (LAN1 Shares IPMI Port)                                                                                                                                                                                                                                                                                                     |                                                                         | 7 x RJ45 (LAN1 Shares IPMI Port)                                                                                                                                                                                                                                                          |                                       | 4 x RJ45 (LAN1 Shares IPMI Port)                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
| Front: 2 x USB 3.2 Gen1 Ports<br>Rear: 4 x USB 3.2 Gen1 Ports                                                                                                                                                                                                                                                                                                                                                                                        | Front: 2 x USB 3.2 Gen1 Ports<br>Rear: 4 x USB 3.2 Gen1 Ports                                                                                                                                                                                                                                                                        |                                                                         | Front: 2 x USB 3.2 Gen1 Ports<br>Rear: 2 x USB 3.2 Gen2 Ports                                                                                                                                                                                                                             |                                       | Front: 2 x USB 2.0 Type A Ports<br>Rear: 4 x USB 3.2 Gen1 Ports                                                                                                                                                                                                                                                                                                                                                                                      |                   |
| AST 2500 BMC Controller                                                                                                                                                                                                                                                                                                                                                                                                                              | AST 2500 BMC Controller                                                                                                                                                                                                                                                                                                              |                                                                         | Intel® 8/ 9th Generation CPU Integrated<br>AST 2500 BMC Controller                                                                                                                                                                                                                        |                                       | AST 2500 BMC Controller                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
| 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                                                                                                                                                                        | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                                                        |                                                                         | 3 x DP++ Ports, DP: 4096 x 2304 @ 60Hz<br>HDMI : 4096 x 2160 @ 30Hz<br>1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                      |                                       | 1 x VGA Port<br>VGA: 1920 x 1200 @ 60Hz 32bpp                                                                                                                                                                                                                                                                                                                                                                                                        |                   |
| 1 x 120 x 25mm Front Fan<br>2 x 80 x 25mm Rear Fans                                                                                                                                                                                                                                                                                                                                                                                                  | 1 x 120 x 25mm Front Fan<br>2 x 80 x 25mm Rear Fans                                                                                                                                                                                                                                                                                  |                                                                         | 2 x 80 x 25 mm Rear Fans                                                                                                                                                                                                                                                                  |                                       | 4 x 80 x 25 mm Middle Fans                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |
| 1 x 1300W PS2 ATX PSU                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 x 1300W PS2 ATX PSU                                                                                                                                                                                                                                                                                                                |                                                                         | 1 x 500W PS2 ATX PSU                                                                                                                                                                                                                                                                      |                                       | 1 x 1U 80plus Gold 500W PSU                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |
| 0 ~ 40°C (32 ~ 104°F)                                                                                                                                                                                                                                                                                                                                                                                                                                | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                                                                                                                                                            |                                                                         | 0 ~ 45°C (32 ~ 113°F)                                                                                                                                                                                                                                                                     |                                       | 0 ~ 40°C (32 ~ 104°F)                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |
| 482.6 x 174.8 x 528 mm with Ear Mount                                                                                                                                                                                                                                                                                                                                                                                                                | 340 x 488 x 528 mm with External Handles & Pedestal Stand                                                                                                                                                                                                                                                                            | 482.6 x 174.8 x 528 mm with Ear Mount                                   | 340 x 488 x 528 mm with External Handles & Pedestal Stand                                                                                                                                                                                                                                 | 482.6 x 174.8 x 528 mm with Ear Mount | 340 x 488 x 528 mm with External Handles & Pedestal Stand                                                                                                                                                                                                                                                                                                                                                                                            | 483 x 88 x 650 mm |
| 19" 4U Rackmount                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tower Chassis                                                                                                                                                                                                                                                                                                                        | 19" 4U Rackmount                                                        | Tower Chassis                                                                                                                                                                                                                                                                             | 19" 4U Rackmount                      | Tower Chassis                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19" 2U Rackmount  |
| Windows 10 IoT Enterprise<br>Windows Server 2016<br>Windows Server 2019                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                      | Windows 10 IoT Enterprise<br>Windows Server 2016<br>Windows Server 2019 |                                                                                                                                                                                                                                                                                           |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |

CPU リスト

サーバー Intel Xeon® スケーラブルプロセッサシリーズ一覧

| Supported Sockets | Process        | Brand           | Processor Number       | Cores | Threads | Processor Base Frequency | Max Turbo Frequency | TDP   | Chipset |
|-------------------|----------------|-----------------|------------------------|-------|---------|--------------------------|---------------------|-------|---------|
| FCLGA3647         | Skylake        | Bronze          | 3106                   | 8     | 8       | 1.70 GHz                 |                     | 85 W  | C621    |
|                   |                | Silver          | 4109T                  | 8     | 16      | 2.00 GHz                 | 3.00 GHz            | 70 W  |         |
|                   |                |                 | 4110                   | 8     | 16      | 2.10 GHz                 | 3.00 GHz            | 85 W  |         |
|                   |                |                 | 4114T                  | 10    | 20      | 2.20 GHz                 | 3.00 GHz            | 85 W  |         |
|                   |                |                 | 4116                   | 12    | 24      | 2.10 GHz                 | 3.00 GHz            | 85 W  |         |
|                   |                |                 | 4116T                  | 12    | 24      | 2.10 GHz                 | 3.00 GHz            | 85 W  |         |
|                   |                | Gold            | 5118                   | 12    | 24      | 2.30 GHz                 | 3.20 GHz            | 105 W |         |
|                   |                |                 | 5119T                  | 14    | 28      | 1.90 GHz                 | 3.20 GHz            | 85 W  |         |
|                   |                |                 | 5120T                  | 14    | 28      | 2.20 GHz                 | 3.20 GHz            | 105 W |         |
|                   |                |                 | 6126T                  | 12    | 24      | 2.60 GHz                 | 3.70 GHz            | 125 W |         |
|                   |                |                 | 6126                   | 12    | 24      | 2.60 GHz                 | 3.70 GHz            | 125 W |         |
|                   |                |                 | 6130T                  | 16    | 32      | 2.10 GHz                 | 3.70 GHz            | 125 W |         |
|                   |                |                 | 6130                   | 16    | 32      | 2.10 GHz                 | 3.70 GHz            | 125 W |         |
|                   |                |                 | 6138                   | 20    | 40      | 2.00 GHz                 | 3.70 GHz            | 125 W |         |
|                   | Cascade Lake   | Silver          | 4209T                  | 8     | 16      | 2.20 GHz                 | 3.20 GHz            | 70 W  |         |
|                   |                |                 | 4210                   | 10    | 20      | 2.20 GHz                 | 3.20 GHz            | 85 W  |         |
|                   |                |                 | 4215                   | 8     | 16      | 2.50 GHz                 | 3.50 GHz            | 85 W  |         |
|                   |                |                 | 4214                   | 12    | 24      | 2.20 GHz                 | 3.20 GHz            | 85 W  |         |
|                   |                |                 | 4216                   | 16    | 32      | 2.10 GHz                 | 3.20 GHz            | 100 W |         |
|                   |                | Gold            | 5215                   | 10    | 20      | 2.50 GHz                 | 3.40 GHz            | 85 W  |         |
|                   |                |                 | 5218T                  | 16    | 32      | 2.10 GHz                 | 3.80 GHz            | 105 W |         |
|                   |                |                 | 6226                   | 12    | 24      | 2.70 GHz                 | 3.70 GHz            | 125 W |         |
|                   |                |                 | 6230                   | 20    | 40      | 2.10 GHz                 | 3.90 GHz            | 125 W |         |
|                   |                |                 | 6238T                  | 22    | 44      | 1.90 GHz                 | 3.70 GHz            | 125 W |         |
|                   |                | Sapphire Rapids | 3408U                  | 8     | 8       | 1.8 GHz                  | 1.9 GHz             | 125 W |         |
|                   |                |                 | 4416+                  | 20    | 40      | 2.0 GHz                  | 3.9 GHz             | 165 W |         |
|                   |                |                 | 4410Y                  | 12    | 24      | 2.0 GHz                  | 3.9 GHz             | 150 W |         |
|                   |                |                 | 4410T                  | 10    | 20      | 2.7 GHz                  | 4.0 GHz             | 150 W |         |
|                   |                |                 | 6448Y                  | 32    | 64      | 2.1 GHz                  | 4.1 GHz             | 225 W |         |
|                   |                |                 | 6426Y                  | 16    | 32      | 2.5 GHz                  | 4.1 GHz             | 185 W |         |
|                   |                |                 | 6418H                  | 24    | 48      | 2.1 GHz                  | 4.0 GHz             | 185 W |         |
|                   |                |                 | 5415+                  | 8     | 16      | 2.9 GHz                  | 4.1 GHz             | 150 W |         |
|                   |                |                 | 5420+                  | 28    | 56      | 2.0 GHz                  | 4.1 GHz             | 205 W |         |
|                   |                |                 | 5418Y                  | 24    | 48      | 2.0 GHz                  | 3.8 GHz             | 185 W |         |
|                   |                |                 | 6430                   | 32    | 64      | 2.10 GHz                 | 3.40 GHz            | 270 W |         |
| FCLGA4677         | Emerald Rapids | Bronze          | 3508U (Only HPM-ERSUA) | 8     | 8       | 2.1 GHz                  | 2.2 GHz             | 125 W | C741    |
|                   |                | Silver          | 4516Y+                 | 24    | 48      | 2.2 GHz                  | 3.7 GHz             | 185 W |         |
|                   |                |                 | 4514Y                  | 16    | 32      | 2.0 GHz                  | 3.4 GHz             | 150 W |         |
|                   |                |                 | 4510                   | 12    | 24      | 2.4 GHz                  | 4.1 GHz             | 150 W |         |
|                   |                |                 | 4509Y                  | 8     | 16      | 2.6 GHz                  | 4.1 GHz             | 125 W |         |
|                   |                |                 | 4510T                  | 12    | 24      | 2.0 GHz                  | 3.7 GHz             | 115 W |         |
|                   |                | Gold            | 6548Y+                 | 32    | 64      | 2.5 GHz                  | 4.1 GHz             | 250 W |         |
|                   |                |                 | 6526Y                  | 16    | 32      | 2.8 GHz                  | 3.9 GHz             | 195 W |         |
|                   |                |                 | 5515+                  | 8     | 16      | 3.2 GHz                  | 4.1 GHz             | 165 W |         |
|                   |                |                 | 5520+                  | 28    | 56      | 2.2 GHz                  | 4.0 GHz             | 205 W |         |
|                   |                |                 | 6530                   | 32    | 64      | 2.1 GHz                  | 4.0 GHz             | 270 W |         |

CPU リスト

サーバーボード HPM-246UA CPU 一覧

8/9世代 Intel® Core™ i7/i5/i3/Pentium®/Celeron®/Xeon® E

| Supported Sockets | Process     | Brand    | Processor Number | Cores | Threads | Processor Base Frequency | Max Turbo Frequency | TDP  | Chipset |
|-------------------|-------------|----------|------------------|-------|---------|--------------------------|---------------------|------|---------|
| FCLGA1151         | Coffee Lake | Xeon® E  | E-2176G          | 6     | 12      | 3.70 GHz                 | 4.70 GHz            | 80 W | C246    |
|                   |             |          | E-2124G          | 4     | 4       | 3.40 GHz                 | 4.50 GHz            | 71 W |         |
|                   |             |          | E-2278GEL        | 8     | 16      | 2.00 GHz                 | 3.90 GHz            | 35 W |         |
|                   |             |          | E-2278GE         | 8     | 16      | 3.30 GHz                 | 4.70 GHz            | 80 W |         |
|                   |             |          | E-2226GE         | 6     | 6       | 3.40 GHz                 | 4.60 GHz            | 80 W |         |
|                   |             | Core™ i7 | i7-8700          | 6     | 12      | 3.20 GHz                 | 4.60 GHz            | 65 W |         |
|                   |             |          | i7-8700T         | 6     | 12      | 2.40 GHz                 | 4.00 GHz            | 35 W |         |
|                   |             |          | i7-9700E         | 8     | 8       | 2.60 GHz                 | 4.40 GHz            | 65 W |         |
|                   |             |          | i7-9700TE        | 8     | 8       | 1.80 GHz                 | 3.80 GHz            | 35 W |         |
|                   |             | Core™ i5 | i5-8500          | 6     | 6       | 3.00 GHz                 | 4.10 GHz            | 65 W |         |
|                   |             |          | i5-8500T         | 6     | 6       | 2.10 GHz                 | 3.50 GHz            | 35 W |         |
|                   |             |          | i5-9500E         | 6     | 6       | 3.00 GHz                 | 4.20 GHz            | 65 W |         |
|                   |             |          | i5-9500TE        | 6     | 6       | 2.20 GHz                 | 3.60 GHz            | 35 W |         |
|                   |             | Core™ i3 | i3-8100          | 4     | 4       | 3.60 GHz                 |                     | 65 W |         |
|                   |             |          | i3-8100T         | 4     | 4       | 3.10 GHz                 |                     | 35 W |         |
|                   |             |          | i3-9100E         | 4     | 4       | 3.10 GHz                 | 3.70 GHz            | 65 W |         |
|                   |             |          | i3-9100TE        | 4     | 4       | 2.20 GHz                 | 3.20 GHz            | 35 W |         |
|                   |             | Pentium  | G5400            | 2     | 4       | 3.70 GHz                 |                     | 58 W |         |
|                   |             |          | G5400T           | 2     | 4       | 3.10 GHz                 |                     | 35 W |         |
|                   |             | Celeron  | G4900            | 2     | 2       | 3.10 GHz                 |                     | 54 W |         |
|                   |             |          | G4900T           | 2     | 2       | 2.90 GHz                 |                     | 35 W |         |

サーバー AMD EPYC プロセッサシリーズ一覧

| Supported Sockets | Process   | Brand    | Processor Number | Cores | Threads | Processor Base Frequency | Max Turbo Frequency | TDP   | Chipset |
|-------------------|-----------|----------|------------------|-------|---------|--------------------------|---------------------|-------|---------|
| LGA4844           | EPYC 8004 | Embedded | 8534P            | 64    | 128     | 2.3 GHz                  | 3.15 GHz            | 200 W | NA      |
|                   |           |          | 8434P            | 48    | 96      | 2.5 GHz                  | 3.15 GHz            | 200 W |         |
|                   |           |          | 8324P            | 32    | 64      | 2.65 GHz                 | 3.0 GHz             | 180 W |         |
|                   |           |          | 8224P            | 24    | 48      | 2.55 GHz                 | 3.0 GHz             | 160 W |         |
|                   |           |          | 8124P            | 16    | 32      | 2.45 GHz                 | 3.0 GHz             | 125 W |         |
|                   |           |          | 8C24P            | 12    | 24      | 2.45 GHz                 | 3.0 GHz             | 100 W |         |
|                   |           |          |                  |       |         |                          |                     |       |         |

AvalueのパネルPCラインナップは、7インチから21インチまでのサイズを取り揃えており、ファンレス、拡張性、堅牢性、軽量産業向けオプションなど、多彩なデザインが特徴です。製品には、産業用パネルPC、産業用ディスプレイ、医療用パネルPC、医療用ディスプレイ、オープンフレームパネルPC、AndroidマルチタッチパネルPC、オーディオ&ビデオエクステンダーが含まれています。

# Panel PC / Monitor / Mobile



### 産業用 タッチパネルPC

Avalueの最先端の産業向け一体型パネルPCは、多様な産業環境に合わせて設計されています。拡張型、堅牢なHMI、軽工業向け、自己診断機能付き、ステンレススチール製、屋外アプリケーション対応、ARMベースのパネルPCを取り揃えており、過酷な環境でも優れたパフォーマンスを発揮します。



### オープンフレーム タッチパネルPC

Avalueのオープンフレーム超薄型タブレットは、シームレスな統合と完全フラットデザインを実現しており、フィットネスキオスク、リテール、ファクトリーオートメーションなど、さまざまな用途に最適です。耐久性、インタラクティブなタッチスクリーン、多様な設置オプションなど、Avalueの先進技術を体験できます。



### 産業用 タッチモニター

Avalueの産業用タッチモニターは、IP65/66レベルの防水・防塵性能付きのタッチパネル、屋外対応機能を備えた堅牢なスクリーンを幅広く提供しています。堅牢型産業用タッチモニターやバータイプディスプレイなど、用途に応じた選択肢を揃え、専用のカスタマーサポートも提供しています。



### POS ターミナル

AvalueのPOSレジシステムは、最先端の技術を搭載し、迅速で安全な取引を実現します。タッチスクリーン機能、多様な接続オプション、堅牢なセキュリティ機能を備えた多彩な選択肢を提供し、現代のリテール市場のニーズに対応します。



### パネルキット

Avalueのパネルキットは、PCAPや5線式抵抗膜タッチなどのオプションを備え、産業用パネルPCのプロセスを最適化します。各種サイズのパネルを搭載したこれらのキットは、さまざまな用途に対応し、実装の効率性と精度を確保します。



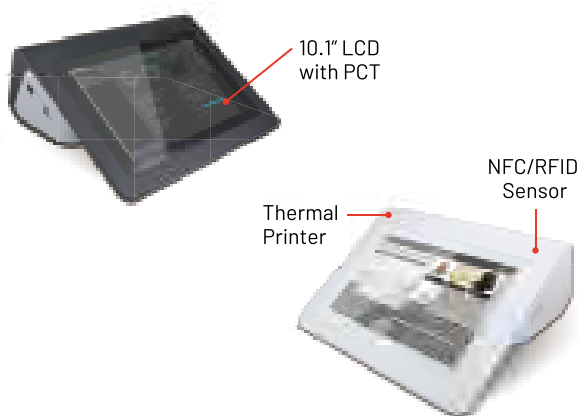
### ARM搭載パネルPC

## POS ターミナル

### » コンパクト POS

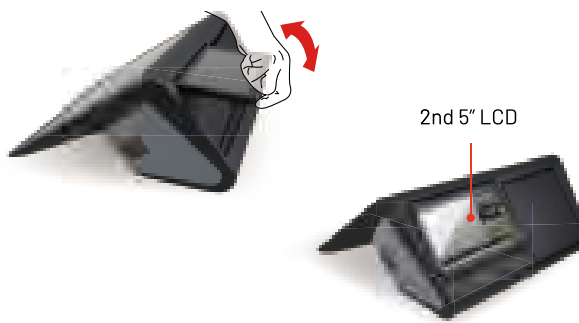


| Model Number          | RiPac-10P3                                                                                                                                                                                                                           |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor             | Intel® Celeron® N3350 1.1GHz Processor                                                                                                                                                                                               |
| System Memory         | 4GB LPDDR4 Onboard                                                                                                                                                                                                                   |
| Storage               | 64G eMMC/ Option for 128GB                                                                                                                                                                                                           |
| Operating System      | Windows 10, Android 8.1                                                                                                                                                                                                              |
| LCD Panel             | 10.1" LCD<br>5" LCD (Customer Facing)                                                                                                                                                                                                |
| Resolution            | 1280 x 800 (10.1")<br>1280 x 720 (5")                                                                                                                                                                                                |
| Touch Screen          | Projected Capacitive Touch                                                                                                                                                                                                           |
| Wireless LAN          | Built-in IEEE 802.11 a/b/g/n/ac                                                                                                                                                                                                      |
| Bluetooth             | Bluetooth 4.2                                                                                                                                                                                                                        |
| Serial Port           | 2 x RS-232 in DB9, Powered with 5V/ 12V                                                                                                                                                                                              |
| USB Port              | 4 x USB 3.0                                                                                                                                                                                                                          |
| SD Card               | 1 x SD Card Slot Support up to 128GB                                                                                                                                                                                                 |
| LAN Port              | 2 x RJ45 (Realtek 8111H)                                                                                                                                                                                                             |
| Cash Drawer           | 1 x RJ11 (12V/ 24V)                                                                                                                                                                                                                  |
| NFC                   | ISO/ IEC 14443 A/B, 15693, 18092 (Optional)                                                                                                                                                                                          |
| Thermal Printer       | Printing Method: Thermal Dot Line Printing<br>Resolution: (W) 8 Dots/mm, (H) 8 Dots/mm<br>Maximum Print Speed: 200 mm/s<br>Maximum Print Width: 72 mm<br>Maximum Paper Width: 80 mm<br>Type of Paper Cutting: Full Cut & Partial Cut |
| Power Type            | +24V/ 6A 120W                                                                                                                                                                                                                        |
| Dimensions            | 299 (L) x 316.2 (W) x 148.9 (H) mm                                                                                                                                                                                                   |
| Weight                | 3 kg ±10%                                                                                                                                                                                                                            |
| Operating Temperature | 5°C ~ 40°C (41°F ~ 104°F)                                                                                                                                                                                                            |
| Storage Temperature   | -10°C ~ 60°C (14°F ~ 140°F)                                                                                                                                                                                                          |
| Operating Humidity    | 0% ~ 95% Non-condensing                                                                                                                                                                                                              |
| Certifications        | CE, FCC, VCCI, CCC                                                                                                                                                                                                                   |



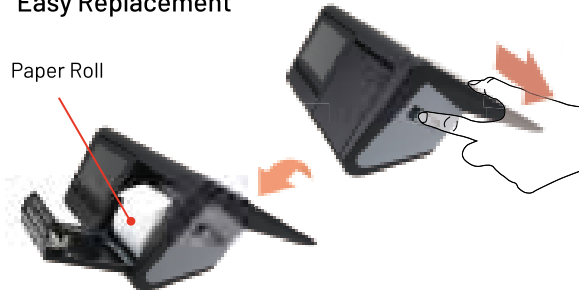
### Customer Display

- 5" 2nd Display for Customer Use
- Adjustable for Best View Angle



### Integrated Printer

- Support 58/80mm with Auto Cut Thermal Printer
- Pain-free Paper Roll Change
- Accessible Printer Module for Easy Replacement



POS ターミナル

» デスクトップPOS



| Model Number             | ISS-15K4                                                                                       | ISS-15K5                                                                        | ISS-32K4                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| LCD Size                 | 15.6", 16:9                                                                                    | 15.6", 16:9                                                                     | 32" 16:9                                                                                                    |
| Display Type             | Full HD                                                                                        | Full HD                                                                         | Full HD                                                                                                     |
| Resolution               | 1920 x 1080                                                                                    | 1920 x 1080                                                                     | 1920 x 1080                                                                                                 |
| Pixel Pitch              | 0.179 x 0.179 mm                                                                               | 0.179 x 0.179 mm                                                                | 0.179 x 0.179 mm                                                                                            |
| Luminance                | 220 cd/m²                                                                                      | 220 cd/m²                                                                       | 400 cd/m²                                                                                                   |
| Viewing Angle            | 85 (U), 85 (D), 85 (L), 85 (R)                                                                 | 85 (U), 85 (D), 85 (L), 85 (R)                                                  | 89 (U), 89 (D), 89 (L), 89 (R)                                                                              |
| Touch Type               | Projective Capacitive                                                                          | Projective Capacitive                                                           | Projective Capacitive                                                                                       |
| Touch Light Transmission | 85%                                                                                            | 85%                                                                             | 85%                                                                                                         |
| Touch Controller         | Build-in Touch Controller                                                                      | Build-in Touch Controller                                                       | Build-in Touch Controller                                                                                   |
| Processor                | Intel® Celeron® Processor J6412                                                                | CPU Rockchip RK3568 Quad-core Cortex-A55 up to 2.0GHz                           | Intel® Celeron® Processor J6412                                                                             |
| System Chipset           | Intel® Elkhart Lake SoC                                                                        | Rockchip                                                                        | Intel® Elkhart Lake SoC                                                                                     |
| System Memory            | Onboard 2GB Memory                                                                             | Onboard 4GB Memory                                                              | Single DRAM Socket, Max. Up to 32GB DDR4 3200MHz                                                            |
| Expansion                | N/A                                                                                            | N/A                                                                             | 1 x M.2 Key-B 2242/3042 with Internal SIM Slot (PCIe, USB 2.0); 1 x M.2 Key-E 2230 (PCIe, USB 2.0)          |
| Storage                  | Onboard 32GB eMMC                                                                              | Onboard 128GB eMMC                                                              | 1 x M.2 Key-B, 2242 (SATA3)<br>1 x Micro SD Card Slot                                                       |
| I/O                      | 2 x USB 2.0<br>2 x USB 3.0<br>1 x RJ45 10/100M<br>1 x RJ12 for Cashdrawer<br>1 x RJ11 (RS-232) | 4 x USB 2.0<br>1 x RJ45 10/100M<br>1 x RJ12 for Cashdrawer<br>1 x RJ11 (RS-232) | 2 x USB 2.0 (Front)<br>4 x USB 3.2 Gen.2 (10Gbp/s)<br>1 x RS232/422/485 (BIOS)<br>2 x RJ45<br>2 x HDMI 2.0b |
| Display Chipset          | Intel® UHD Graphics                                                                            | Rockchip                                                                        | Intel® UHD Graphics                                                                                         |
| Audio                    | Build in                                                                                       | Build in                                                                        | RealTek ALC888S                                                                                             |
| Audio Interface          | 1 x 3W Speaker                                                                                 | 1 x 3W Speaker                                                                  | 2 x 10W Speaker                                                                                             |
| Ethernet                 | 1 x 10/100M LAN                                                                                | 1 x 10/100M LAN                                                                 | 2 x Intel® I225-LM                                                                                          |
| 2nd LCD Panel            | N/A                                                                                            | N/A                                                                             | N/A                                                                                                         |
| Optional                 | N/A                                                                                            | N/A                                                                             | N/A                                                                                                         |
| Power Connector          | Mini-din 4P for DC in w/ Lock Type +24V DC in                                                  | Mini-din 4P for DC in w/ Lock Type +24V DC in                                   | AC Power Input                                                                                              |
| Power Type               | ATX                                                                                            | ATX                                                                             | ATX                                                                                                         |
| Adapter                  | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 90W Adapter (24V @ 4A Adapter)                       | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 90W Adapter (24V @ 4A Adapter)        | N/A                                                                                                         |
| Construction             | Plastic                                                                                        | Plastic                                                                         | Plastic                                                                                                     |
| IP Rating                | N/A                                                                                            | N/A                                                                             | N/A                                                                                                         |
| Operating Temperature    | 0°C ~ 40°C (32°F ~ 104°F)                                                                      | 0°C ~ 40°C (32°F ~ 104°F)                                                       | 0°C ~ 40°C (32°F ~ 104°F)                                                                                   |
| Storage Temperature      | -10°C ~ 60°C (14°F ~ 140°F)                                                                    | -10°C ~ 60°C (14°F ~ 140°F)                                                     | -10°C ~ 60°C (14°F ~ 140°F)                                                                                 |
| Dimension (L x W x H)    | 300 x 250 x 599.9 mm                                                                           | 300 x 250 x 599.9 mm                                                            | TBC                                                                                                         |
| Weight                   | 6 kg                                                                                           | 6 kg                                                                            | TBC                                                                                                         |
| Certifications           | CE/ FCC/ VCCI                                                                                  | CE/ FCC/ VCCI                                                                   | CE/ FCC                                                                                                     |
| OS Information           | Win10 IoT                                                                                      | Android 11                                                                      | Win10 IoT                                                                                                   |

POS ターミナル

» デスクトップPOS



| PT58                                                                                                                    | RiVar-1502                                                                                       | Rity153                                                                                                                                             | Rity103                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 15.6", 16:9                                                                                                             | 15.6", 16:9                                                                                      | 15", 4:3                                                                                                                                            | 10.1", 16:9                                                                                         |
| Full HD                                                                                                                 | Full HD                                                                                          | XGA                                                                                                                                                 | WSVGA                                                                                               |
| 1920 x 1080                                                                                                             | 1920 x 1080                                                                                      | 1024 x 768                                                                                                                                          | 1024 x 600                                                                                          |
| 0.179 x 0.179 mm                                                                                                        | 0.179 x 0.179 mm                                                                                 | 0.297 x 0.297 mm                                                                                                                                    | 0.2175 x 0.2088 mm                                                                                  |
| 250 cd/m²                                                                                                               | 300 cd/m²                                                                                        | 500 cd/m²                                                                                                                                           | 350 cd/m²                                                                                           |
| 85 (U), 85 (D), 85 (L), 85 (R)                                                                                          | 89 (U), 89 (D), 89 (L), 89 (R)                                                                   | 88 (U), 88 (D), 88 (L), 88 (R)                                                                                                                      | 70 (U), 70 (D), 70 (L), 70 (R)                                                                      |
| Projective Capacitive                                                                                                   | Projective Capacitive                                                                            | 5-Wire Resistive/ Projective Capacitive Touch                                                                                                       | 5-Wire Resistive/ Projective Capacitive Touch                                                       |
| 85%                                                                                                                     | 85%                                                                                              | RES 75%/ PCT90%                                                                                                                                     | RES 75%/ PCT90%                                                                                     |
| Build-in Touch Controller                                                                                               | Build-in Touch Controller                                                                        | Onboard USB Touch (PenMount)/<br>USB Touch (EETI)                                                                                                   | Onboard USB Touch (PenMount)/<br>USB Touch (EETI)                                                   |
| Intel® Celeron® Processor J6412<br>12th Gen. Intel® Core™ i3-1215U/ i5-1235U                                            | Intel® Celeron® Processor J3455                                                                  | Intel® Celeron® Processor N3350 1.1GHz                                                                                                              | Intel® Celeron® Processor N3350 1.1GHz                                                              |
| Intel® Elkhart Lake SoC<br>Intel® Alder Lake SoC                                                                        | Intel® Apollo Lake SoC                                                                           | Intel® Apollo Lake SoC                                                                                                                              | Intel® Apollo Lake SoC                                                                              |
| 1 x 8GB DDR4 SO-DIMM Memory<br>(Max. Support up to 16GB)                                                                | Default Onboard 4GB DDR4 SDRAM<br>(Option up to 8GB)                                             | 1 x 204-Pin DDR3L 1066MHz SO-DIMM<br>up to 8 GB                                                                                                     | 1 x 204-Pin DDR3L 1066MHz SO-DIMM<br>up to 8 GB                                                     |
| 1 x M.2 Slot for Storage                                                                                                | 1 x M.2 E Key Slot for .2.4/ 5G WiFi Module                                                      | 1 x M.2 B Key Slot Support                                                                                                                          | 1 x M.2 B Key Slot Support                                                                          |
| M.2 2242 SATA 128GB                                                                                                     | Default 128GB eMMC                                                                               | 1 x 2.5" Drive Bay, 1 x M.2 B Key Slot                                                                                                              | 1 x M.2 B Key Slot                                                                                  |
| 3 x USB 2.0, 3 x USB 3.1<br>2 x COM Supported 5V/ 12V Output<br>1 x RJ-11 for Cash Drawer 12/ 24V<br>1 x Type C (DP+PD) | 4 x USB 3.0<br>2 x COM Supported 5V/ 12V Output<br>1 x RJ-11 for Cash Drawer 12/ 24V<br>1 x HDMI | 2 x USB 2.0, 4 x USB 3.0<br>2 x RS-232/422/485 (BIOS)<br>2 x RS-232, 1 x HDMI 1.4b, 1 x VGA<br>1 x RJ11 for Cash Drawer<br>1 x Battery in Connector | 4 x USB 3.0<br>2 x RS-232/422/485 (BIOS)<br>1 x RS-232<br>1 x HDMI 1.4b<br>1 x RJ11 for Cash Drawer |
| Intel® UHD Graphics                                                                                                     | Intel® HD Graphics 500                                                                           | Intel® HD Graphics 500                                                                                                                              | Intel® HD Graphics 500                                                                              |
| Realtek ALC887                                                                                                          | ES8316C                                                                                          | Realtek 888S                                                                                                                                        | Realtek 888S                                                                                        |
| 2 x 2W Speaker                                                                                                          | 2 x 2W Speaker                                                                                   | 2 x 2W Speaker                                                                                                                                      | 2 x 2W Speaker                                                                                      |
| 1 x RJ45 with Realtek RTL8111H                                                                                          | 2 x RJ45 with Realtek 8111H                                                                      | 2 x Realtek RTL8111E-VB-GR                                                                                                                          | 2 x Realtek RTL8111E-VB-GR                                                                          |
| 10.1" Resolution 1280 x 800                                                                                             | N/A                                                                                              | N/A                                                                                                                                                 | N/A                                                                                                 |
| iButton Reader/ RFID Reader/ Fingerprint Reader/ 2D Scanner/ 2 x 20 Character LCM/ 3-Track MSR USB Interface            | Camera/ NFC/ MSR                                                                                 | MSR                                                                                                                                                 | N/A                                                                                                 |
| Mini-din 4P for DC in w/ Lock Type +19V DC in                                                                           | DC Jack w/ Lock Type +24V DC in                                                                  | Mini-din 4P for DC in w/ Lock Type +19V ~ 24V DC in                                                                                                 | Mini-din 4P for DC in w/ Lock Type +19V ~ 24V DC in                                                 |
| ATX                                                                                                                     | ATX                                                                                              | AT/ ATX (ATX is Default Setting)                                                                                                                    | AT/ ATX (ATX is Default Setting)                                                                    |
| Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 65W Adapter (19V @ 3.42A Adapter)                                             | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (24V @ 2.5A Adapter)                       | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 90W Adapter (24V @ 3.75A Adapter)                                                                         | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 90W Adapter (24V @ 3.75A Adapter)                         |
| Aluminum + Plastic                                                                                                      | Plastic                                                                                          | Black Coverlens, ABS Plastic                                                                                                                        | Black Coverlens, ABS Plastic                                                                        |
| IP65 for Front Panel                                                                                                    | IP65 for Front Panel, IP41 for Rear                                                              | IP65 for Front Panel                                                                                                                                | IP65 for Front Panel                                                                                |
| 0°C ~ 40°C (32°F ~ 104°F)                                                                                               | 0°C ~ 40°C (32°F ~ 104°F)                                                                        | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                           | 0°C ~ 40°C (32°F ~ 104°F)                                                                           |
| -10°C ~ 60°C (14°F ~ 140°F)                                                                                             | -20°C ~ 60°C (-4°F ~ 140°F)                                                                      | -10°C ~ 60°C (14°F ~ 140°F)                                                                                                                         | -10°C ~ 60°C (14°F ~ 140°F)                                                                         |
| 361.6 x 300.5 x 191.9 mm                                                                                                | 391 x 251 x 44.5 mm                                                                              | 362.1 x 290.08 x 51 mm                                                                                                                              | 260 x 178 x 42 mm                                                                                   |
| 3 kg                                                                                                                    | 2.7 kg                                                                                           | 4 kg                                                                                                                                                | 1.8 kg                                                                                              |
| CE/ FCC/ VCCI                                                                                                           | CE/ FCC/ VCCI: Class B                                                                           | CE, FCC Class B, VCCI                                                                                                                               | CE, FCC Class B, VCCI                                                                               |
| Windows 10 IoT (64 bit)<br>Windows 11 (64 bit)                                                                          | Windows 10, Android 8.1                                                                          | Win10 IoT, Linux                                                                                                                                    | Win10 IoT, Linux                                                                                    |

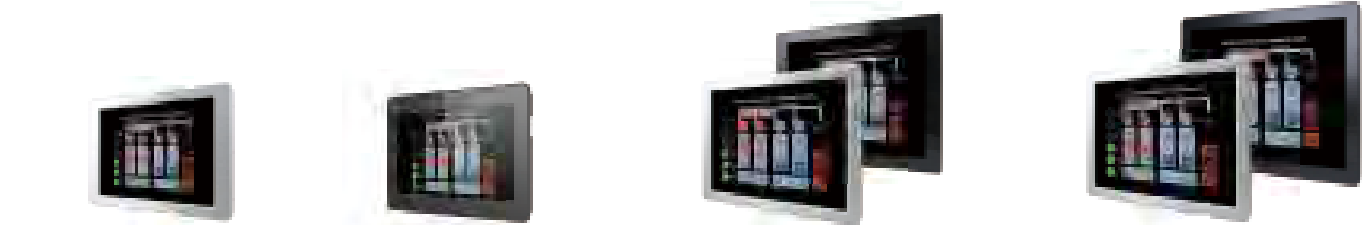


堅牢タッチパネル PC



| Model Number               | ARC-1235                                                                                                          |                                                                    | ARC-1535                                                          | ARC-21W35                  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------|
| LCD Size                   | 12.1", 4:3                                                                                                        |                                                                    | 15", 4:3                                                          | 21.5"                      |
| Display Type               | XGA                                                                                                               |                                                                    | XGA                                                               | Full HD                    |
| Resolution                 | 1024 x 768                                                                                                        |                                                                    | 1024 x 768                                                        | 1920 x 1080                |
| Pixel Pitch                | 0.240 x 0.240 mm                                                                                                  |                                                                    | 0.297 x 0.297 mm                                                  | 0.248 x 0.248              |
| Luminance                  | 600 cd/m²                                                                                                         |                                                                    | 300 cd/m²                                                         | 250 cd/m²                  |
| Contrast Ratio             | 1000                                                                                                              |                                                                    | 2000                                                              | 3000                       |
| Viewing Angle              | 89(U), 89(D), 89(L), 89(R)                                                                                        |                                                                    | 88(U), 88(D), 88(L), 88(R)                                        | 89(U), 89(D), 89(L), 89(R) |
| Response Time              | 13 ms                                                                                                             |                                                                    | 16 ms                                                             | 20 ms                      |
| Backlight                  | LED                                                                                                               |                                                                    | LED                                                               | LED                        |
| Touch Type                 | A Model: 5-Wire Resistive Touch<br>B Model: PCAP Multi-touch up to 10 Points (Full Flat Design)                   |                                                                    | PCAP Multi-touch up to 10 Points                                  |                            |
| Touch Light Transmission   | A Model: 80%, B Model: 89%                                                                                        |                                                                    | 88%                                                               |                            |
| Touch Controller           | A Model: Onboard USB Touch (PenMount)<br>B Model: External USB Controller                                         |                                                                    | USB touch (EETI)                                                  |                            |
| SBC                        | ARC-EHL                                                                                                           |                                                                    |                                                                   |                            |
| Processor                  | Onboard Intel® Pentium®/ Celeron®/ Atom™ SoC BGA Processor                                                        |                                                                    |                                                                   |                            |
| I/O Chipset                | EC ITE IT5571                                                                                                     |                                                                    |                                                                   |                            |
| System Memory              | Single 260-pin DDR4 SODIMM Socket<br>Supports up to 32GB DDR4 3200MTs SDRAM                                       |                                                                    |                                                                   |                            |
| Expansion                  | 1 x M.2 Key-E 2230 for Wi-Fi & BT Module<br>1 x M.2 Key-B 2242/3042/3052 for SATA 3/ PCIe x1/ USB 3.1             |                                                                    |                                                                   |                            |
| Storage                    | 1 x M.2 Key-B 2242/3042/3052 for SATA 3/ PCIe x1/ USB 3.1 or 1 x 2.5" Drive Bay (7mm HDD Restricted)              |                                                                    |                                                                   |                            |
| USB                        | 4 x USB 3.1 Gen.2                                                                                                 |                                                                    |                                                                   |                            |
| COM Port                   | 1 x RS-232/422/485, Selectable by BIOS, RS-485 Supports Auto Flow, Pin-9 Selected by Ring/ +5V/ +12V); 1 x RS-232 |                                                                    |                                                                   |                            |
| Display Chipset            | Intel® Elkhart Lake SoC Processor Integrated Gen11 LP Graphics                                                    |                                                                    |                                                                   |                            |
| Display Resolution         | HDMI: Max. Resolution 4096 x 2160 @ 60Hz (Optional by IET Module)                                                 |                                                                    |                                                                   |                            |
| Audio                      | Realtek ALC888S/ 897                                                                                              |                                                                    |                                                                   |                            |
| Audio Interface            | 2 x 2W Speakers                                                                                                   |                                                                    |                                                                   |                            |
| Ethernet                   | 2 x Intel® I225-IT 2.5 Gigabit Ethernet (Wide Temperature)                                                        |                                                                    |                                                                   |                            |
| Power Connector            | Lockable DC Jack, +12V ~ 24V                                                                                      |                                                                    |                                                                   |                            |
| Power Type                 | AT/ ATX (ATX is Default Setting)                                                                                  |                                                                    |                                                                   |                            |
| Adapter                    | Input:100 ~ 240 Vac/ 50 ~ 60 Hz<br>Output: 72W Adapter (19V @ 3.78A)                                              |                                                                    | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 120W Adapter (24V @ 5A) |                            |
| Construction (Front, Rear) | A Model: Front Metal, Rear Aluminum Die Casting; B Model: Aluminum Die Casting                                    |                                                                    |                                                                   |                            |
| Operating Temperature      | A Model: -20°C ~ 60°C (-4°F ~ 140°F), B Model: -10°C ~ 50°C (14°F ~ 122°F)                                        |                                                                    |                                                                   |                            |
| Storage Temperature        | -30°C ~ 70°C (-22°F~158°F)                                                                                        |                                                                    |                                                                   |                            |
| Certification              | CE, FCC Class B                                                                                                   |                                                                    |                                                                   |                            |
| OS Information             | Windows 10 IoT, Windows 11 IoT, Linux                                                                             |                                                                    |                                                                   |                            |
| Dimension                  | A Model: 283 x 221.1 x 51.2 mm<br>B Model: 192.86 x 225.4 x 51.5 mm                                               | A Model: 350 x 274 x 54.5 mm<br>B Model: 350.51 x 274.51 x 56.5 mm | 538.05 x 341.05 x 64 mm                                           |                            |
| Weight                     | 2.4 kg                                                                                                            |                                                                    | 3.7 kg                                                            |                            |

堅牢タッチパネル PC



| ARC-1037                                                                                                          | ARC-10W37                        | ARC-1239                                                                                                                            | ARC-1539                                                           |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 10.4", 4:3                                                                                                        | 10.1", 16:10                     | 12.1", 4:3                                                                                                                          | 15", 4:3                                                           |
| XGA                                                                                                               | WXGA                             | XGA                                                                                                                                 | XGA                                                                |
| 1024 x 768                                                                                                        | 1280 x 800                       | 1024 x 768                                                                                                                          | 1024 x 768                                                         |
| 0.0685 mm (H) x 0.2055 mm (V)                                                                                     | 0.1695 mm x 0.1695 mm            | 0.240 mm (H) x 0.240 mm (V)                                                                                                         | 0.297mm (H) x 0.297mm (V)                                          |
| 500 cd/m²                                                                                                         | 350 cd/m²                        | 600 cd/m²                                                                                                                           | 500 cd/m²                                                          |
| 1200                                                                                                              | 800                              | 1000                                                                                                                                | 2500                                                               |
| 88(U), 88(D), 88(L), 88(R)                                                                                        | 85(U), 85(D), 85(L), 85(R)       | 89(U), 89(D), 89(L), 89(R)                                                                                                          | 88(U), 88(D), 88(L), 88(R)                                         |
| 25 ms                                                                                                             | 25 ms                            | 13 ms                                                                                                                               | 16 ms                                                              |
| LED                                                                                                               | LED                              | LED                                                                                                                                 | LED                                                                |
| 5-Wire Resistive Touch                                                                                            | PCAP Multi-touch up to 10 Points | A Model: 5 Wires Resistive Touch<br>B Model: PCAP Multi-touch up to 10 Points                                                       |                                                                    |
| 80%                                                                                                               | 88%                              | 80% (Resistive)/ 89% (PCAP)                                                                                                         |                                                                    |
| Onboard USB Touch (PenMount)                                                                                      | USB Touch (EETI)                 | Onboard USB Touch (PenMount) for Resistive; USB Touch (EETI) for PCAP                                                               |                                                                    |
| ARC-ADLN                                                                                                          |                                  | ARC-ASL                                                                                                                             |                                                                    |
| Onboard Intel® Pentium®/ Celeron®/ Atom™ Alder Lake-N Processor                                                   |                                  | Onboard Intel® Atom™ x7000RE Series Amston Lake Processor                                                                           |                                                                    |
| EC ITE IT5782VG                                                                                                   |                                  | EC ITE IT5782VG                                                                                                                     |                                                                    |
| Single 262-pin DDR5 4800MHz SO-DIMM Socket Supports up to 32GB Max (Non ECC Only)                                 |                                  | 1 x 262-pin DDR5 4800MHz SO-DIMM Socket, Supports up to 16GB                                                                        |                                                                    |
| 1 x M.2 Key-E 2230 for for Wi-Fi & BT Module<br>1 x M.2 Key-B 2242/3042/3052 for SATA3/ PCIe x1/ USB3.1           |                                  | 1 x M.2 Key-B 2242/3042/3052 for SATA3/ PCIe x1/ USB3.1<br>1 x M.2 Key-E 2230 for for Wi-Fi & BT Module<br>1 x 80-pin IET Interface |                                                                    |
| 1 x M.2 Key-B 2242/3042/3052 for SATA3/ PCIe x1/ USB 3.1 or 1 x 2.5" Drive Bay (7mm HDD Restricted)               |                                  | 1 x M.2 Key-B 2242/3042/3052 for SATA3/ PCIe x1/ USB 3.1 or 1 x 2.5" Drive Bay (7mm HDD Restricted)                                 |                                                                    |
| 2 x USB 3.1 Gen.2 (1 x Dual Deck, Type A)<br>1 x USB Type C (w/ PD, USB, Display Function)                        |                                  | 2 x USB 3.1 Gen.2 (1 x Dual Deck, Type A)<br>1 x USB Type C (w/ PD, USB, Display Function)                                          |                                                                    |
| 1 x RS-232/422/485, Selectable by BIOS, RS-485 Supports Auto Flow, Pin-9 Selected by Ring/ +5V/ +12V); 1 x RS-232 |                                  | 1 x RS-232/422/485, Selectable by BIOS, RS-485 Supports Auto Flow, Pin-9 Selected by Ring/ +5V/ +12V); 1 x RS-232                   |                                                                    |
| Intel® Alder Lake-N Processor Integrated Gen 12 UHD Graphics                                                      |                                  | Intel® UHD Graphics                                                                                                                 |                                                                    |
| HDMI: Max. Resolution 4096 x 2160 @ 60Hz (Optional by IET Module)                                                 |                                  | HDMI: Max. Resolution 4096 x 2160 @ 60Hz (Optional by IET Module)                                                                   |                                                                    |
| Realtek ALC888S/ 897                                                                                              |                                  | Realtek ALC 888S/897                                                                                                                |                                                                    |
| 2 x 2W Speakers                                                                                                   |                                  | 2 x 2W Speaker Output<br>Line-in, Line-out, Mic-in by Expandable IET (Option)                                                       |                                                                    |
| 2 x Intel® I226-LM 2.5 Gigabit Ethernet                                                                           |                                  | 2 x Intel® I226LM 2.5 GbE                                                                                                           |                                                                    |
| Lockable DC Jack, +12V ~ 24V                                                                                      |                                  | Lockable DC Jack (Phoenix Connector by Option), +12V ~ 24V                                                                          |                                                                    |
| AT/ ATX (ATX is Default Setting)                                                                                  |                                  | AT/ ATX (ATX is Default Setting)                                                                                                    |                                                                    |
| Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 72W Adapter (19V @ 3.78A)                                               |                                  | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 72W Adapter (19V @ 3.78A Adapter)                                                         |                                                                    |
| Front Metal, Rear Aluminum Die Casting                                                                            | Aluminum Die Casting             | Silver Aluminum (Resistive), Die Casting with Cover Lens (P-cap); Black Die Casting                                                 |                                                                    |
| -10°C ~ 50°C (14°F ~ 122°F)                                                                                       |                                  | A Model: -20°C ~ 60°C (-4°F ~ 140°F)<br>B Model: -10°C ~ 50°C (14°F ~ 122°F)                                                        |                                                                    |
| -20°C ~ 60°C (-4°F ~ 140°F)                                                                                       |                                  | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                         |                                                                    |
| CE, FCC Class B                                                                                                   |                                  | CE, FCC Class B                                                                                                                     |                                                                    |
| Windows 10 IoT, Windows 11 IoT, Linux                                                                             |                                  | Windows 10 IoT, Windows 11 IoT, Linux                                                                                               |                                                                    |
| 259.6 x 195.8 x 46 mm                                                                                             | 282.29 x 200.93 x 50.9 mm        | A Model: 283 x 221 x 51.2 mm<br>B Model: 284 x 223 x 46 mm                                                                          | A Model: 350 x 274 x 54.5 mm<br>B Model: 350.51 x 274.51 x 56.5 mm |
| 2.3 kg                                                                                                            | 2.17 kg                          | 2.4 kg                                                                                                                              | 3.7 kg                                                             |

堅牢タッチパネル PC



| Model Number                  | ARC-1242                                                                                                                                                                   | ARC-1542                                                                                                                                                                   | ARC-21W42                                                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size/ Display Type        | 12.1", 4:3/ XGA                                                                                                                                                            | 15", 4:3/ XGA                                                                                                                                                              | 21.5", 16:9/ Full HD                                                                                                                                                       |
| Resolution                    | 1024 x 768                                                                                                                                                                 | 1024 x 768                                                                                                                                                                 | 1920 x 1080                                                                                                                                                                |
| Pixel Pitch                   | 0.240 mm (H) x 0.240 mm (V)                                                                                                                                                | 0.297mm (H) x 0.297mm (V)                                                                                                                                                  | 247.95 um (H) x 247.95 um (V)                                                                                                                                              |
| Luminance                     | 600 cd/m <sup>2</sup>                                                                                                                                                      | 500 cd/m <sup>2</sup>                                                                                                                                                      | 500 cd/m <sup>2</sup>                                                                                                                                                      |
| Contrast Ratio                | 1000                                                                                                                                                                       | 2500                                                                                                                                                                       | 1000                                                                                                                                                                       |
| Viewing Angle                 | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                             | 88 (U), 88 (D), 88 (L), 88 (R)                                                                                                                                             | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                             |
| Response Time                 | 13 ms                                                                                                                                                                      | 16 ms                                                                                                                                                                      | 14 ms                                                                                                                                                                      |
| Backlight                     | LED                                                                                                                                                                        | LED                                                                                                                                                                        | LED                                                                                                                                                                        |
| Touch Type                    | A Model: 5 Wires Resistive Touch<br>B Model: PCAP Multi-touch up to 10 Points                                                                                              | A Model: 5 Wires Resistive Touch<br>B Model: PCAP Multi-touch up to 10 Points                                                                                              | PCAP Multi-touch up to 10 Points                                                                                                                                           |
| Touch Light Transmission      | 80% (Resistive)/ 89% (PCAP)                                                                                                                                                | 80% (Resistive)/ 89% (PCAP)                                                                                                                                                | 89 %                                                                                                                                                                       |
| Touch Controller              | Onboard USB Touch (PenMount) for Resistive;<br>USB Touch (EETI) for PCAP                                                                                                   | Onboard USB Touch (PenMount) for Resistive;<br>USB Touch (EETI) for PCAP                                                                                                   | USB Touch (EETI)                                                                                                                                                           |
| SBC                           | ARC-RPLPS                                                                                                                                                                  | ARC-RPLPS                                                                                                                                                                  | ARC-RPLPS                                                                                                                                                                  |
| Processor                     | 13th Generation Intel® Core™ i3/i5/i7 Processors<br>(LGA1700 Socket)                                                                                                       | 13th Generation Intel® Core™ i3/i5/i7 Processors<br>(LGA1700 Socket)                                                                                                       | 13th Generation Intel® Core™ i3/i5/i7 Processors<br>(LGA1700 Socket)                                                                                                       |
| I/O Chipset                   | EC ITE IT5782VG                                                                                                                                                            | EC ITE IT5782VG                                                                                                                                                            | EC ITE IT5782VG                                                                                                                                                            |
| System Memory                 | 1 x 262-pin DDR5 4800MHz SO-DIMM up to 32GB                                                                                                                                | 1 x 262-pin DDR5 4800MHz SO-DIMM up to 32GB                                                                                                                                | 1 x 262-pin DDR5 4800MHz SO-DIMM up to 32GB                                                                                                                                |
| Expansion                     | 1 x M.2 Key-B 2242/3042/3052/2280 with SIM Card<br>Slot Support SATA3/ PCIe & USB for LTE (4/5G)/ NVMe<br>1 x M.2 (Key-E, 2230, PCIe1, USB2.0)<br>1 x 80-pin IET Interface | 1 x M.2 Key-B 2242/3042/3052/2280 with SIM Card<br>Slot Support SATA3/ PCIe & USB for LTE (4/5G)/ NVMe<br>1 x M.2 (Key-E, 2230, PCIe1, USB2.0)<br>1 x 80-pin IET Interface | 1 x M.2 Key-B 2242/3042/3052/2280 with SIM Card<br>Slot Support SATA3/ PCIe & USB for LTE (4/5G)/ NVMe<br>1 x M.2 (Key-E, 2230, PCIe1, USB2.0)<br>1 x 80-pin IET Interface |
| Storage                       | 1 x M.2 Support SATA, or 1 x 2.5" SATA3 Drive Bay                                                                                                                          | 1 x M.2 Support SATA, or 1 x 2.5" SATA3 Drive Bay                                                                                                                          | 1 x M.2 Support SATA, or 1 x 2.5" SATA3 Drive Bay                                                                                                                          |
| USB                           | 4 x USB 3.2, 1 x USB Type C (with PD, Display, USB<br>Function)                                                                                                            | 4 x USB 3.2, 1 x USB Type C (with PD, Display, USB<br>Function)                                                                                                            | 4 x USB 3.2, 1 x USB Type C (with PD, Display, USB<br>Function)                                                                                                            |
| COM Port                      | 1 x RS-232/422/485, 1 x RS-232                                                                                                                                             | 1 x RS-232/422/485, 1 x RS-232                                                                                                                                             | 1 x RS-232/422/485, 1 x RS-232                                                                                                                                             |
| Other                         | 7 x Knockouts for Antenna Mounting<br>(5 from Rear Cover + 2 from IET Bracket)                                                                                             | 7 x Knockouts for Antenna Mounting<br>(5 from Rear Cover + 2 from IET Bracket)                                                                                             | 7 x Knockouts for Antenna Mounting<br>(5 from Rear Cover + 2 from IET Bracket)                                                                                             |
| Display Chipset               | Intel® Iris® Xe Graphics (for Core i5 & i7)<br>Intel® UHD Graphics for 12th Gen Intel® Processors<br>(for Core i3 & Celeron)                                               | Intel® Iris® Xe Graphics (for Core i5 & i7)<br>Intel® UHD Graphics for 12th Gen Intel® Processors<br>(for Core i3 & Celeron)                                               | Intel® Iris® Xe Graphics (for Core i5 & i7)<br>Intel® UHD Graphics for 12th Gen Intel® Processors<br>(for Core i3 & Celeron)                                               |
| Audio                         | Realtek ALC 888S/897                                                                                                                                                       | Realtek ALC 888S/897                                                                                                                                                       | Realtek ALC 888S/897                                                                                                                                                       |
| Audio Interface               | 2 x 2W Speaker Output<br>Line-in, Line-out, Mic-in by Expandable IET (Option)                                                                                              | 2 x 2W Speaker Output<br>Line-in, Line-out, Mic-in by Expandable IET (Option)                                                                                              | 2 x 2W Speaker Output<br>Line-in, Line-out, Mic-in by Expandable IET (Option)                                                                                              |
| Ethernet                      | 2 x Intel® I226LM 2.5 GbE                                                                                                                                                  | 2 x Intel® I226LM 2.5 GbE                                                                                                                                                  | 2 x Intel® I226LM 2.5 GbE                                                                                                                                                  |
| Power Connector               | Lockable DC Jack (Phoenix Connector by Option),<br>+12V ~ 24V                                                                                                              | Lockable DC Jack (Phoenix Connector by Option),<br>+12V ~ 24V                                                                                                              | Lockable DC Jack (Phoenix Connector by Option),<br>+12V ~ 24V                                                                                                              |
| Power Type                    | AT/ ATX (ATX is Default Setting)                                                                                                                                           | AT/ ATX (ATX is Default Setting)                                                                                                                                           | AT/ ATX (ATX is Default Setting)                                                                                                                                           |
| Adapter                       | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 72W Adapter (19V @ 3.78A Adapter)                                                                                                | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 72W Adapter (19V @ 3.78A Adapter)                                                                                                | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 120W Adapter (24V @ 5A Adapter)                                                                                                  |
| Construction<br>(Front, Rear) | Silver Aluminum (Resistive), Die Casting with Cover<br>Lens (P-cap); Black Die Casting                                                                                     | Silver Aluminum (Resistive), Die Casting with Cover<br>Lens (P-cap); Black Die Casting                                                                                     | Die Casting with Cover Lens (P-cap)<br>Black Die Casting                                                                                                                   |
| Operating Temperature         | -10°C ~ 50°C (14°F ~ 122°F)                                                                                                                                                | -10°C ~ 50°C (14°F ~ 122°F)                                                                                                                                                | -10°C ~ 50°C (14°F ~ 122°F)                                                                                                                                                |
| Storage Temperature           | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                |
| Certification                 | CE, FCC Class B                                                                                                                                                            | CE, FCC Class B                                                                                                                                                            | CE, FCC Class B                                                                                                                                                            |
| OS Information                | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                                                      | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                                                      | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                                                      |
| Dimension                     | A Model: 283 x 221 x 51.2 mm<br>B Model: 284 x 223 x 46 mm                                                                                                                 | A Model: 350 x 274 x 54.5 mm<br>B Model: 350.51 x 274.51 x 56.5 mm                                                                                                         | 538.05 x 341.05 x 60.05mm                                                                                                                                                  |
| Weight                        | 2.4 kg                                                                                                                                                                     | 3.7 kg                                                                                                                                                                     | 7.3 kg                                                                                                                                                                     |

堅牢タッチパネル PC



| Model Number               | ARC-1238                                                                                                             | ARC-1538                                                           | ARC-21W38                                                         | ARC-1738-C1                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size                   | 12.1"                                                                                                                | 15"                                                                | 21.5"                                                             | 17"                                                                                                                                                        |
| Display Type               | XGA                                                                                                                  | XGA                                                                | Full HD                                                           | SWGA                                                                                                                                                       |
| Resolution                 | 1024 x 768                                                                                                           | 1024 x 768                                                         | 1920 x 1080                                                       | 1280 x 1024                                                                                                                                                |
| Pixel Pitch                | 0.240 x 0.240 mm                                                                                                     | 0.297 x 0.297 mm                                                   | 0.248 x 0.248                                                     | 0.264 x 0.264                                                                                                                                              |
| Luminance                  | 600 cd/m <sup>2</sup>                                                                                                | 300 cd/m <sup>2</sup> , 500 cd/m <sup>2</sup>                      | 250 cd/m <sup>2</sup>                                             | 250 cd/m <sup>2</sup>                                                                                                                                      |
| Contrast Ratio             | 1000                                                                                                                 | 2000                                                               | 3000                                                              | 1000                                                                                                                                                       |
| Viewing Angle              | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                       | 88 (U), 88 (D), 88 (L), 88 (R)                                     | 89 (U), 89 (D), 89 (L), 89 (R)                                    | 80 (U), 80 (D), 85 (L), 85 (R)                                                                                                                             |
| Response Time              | 13 ms                                                                                                                | 16 ms                                                              | 20 ms                                                             | 5 ms                                                                                                                                                       |
| Backlight                  | LED                                                                                                                  | LED                                                                | LED                                                               | LED                                                                                                                                                        |
| Touch Type                 | A Model: 5-Wire Resistive Touch<br>B Model: PCAP Multi-touch up to 10 Points (Full Flat Design)                      |                                                                    | PCAP Multi-touch up to 10 Points                                  | PCAP Multi-touch up to 10 Points (Full Flat Design)                                                                                                        |
| Touch Light Transmission   | 5-Wire Resistive Touch: 80%, Projective Capacitive Multi-Touch: 89%                                                  |                                                                    | 88%                                                               | 89%                                                                                                                                                        |
| Touch Controller           | A Model: Onboard USB Touch (PenMount)<br>B Model: External USB Controller                                            |                                                                    | USB touch (EETI)                                                  | Onboard USB Touch (ILITEK)                                                                                                                                 |
| SBC                        | ARC-TGL                                                                                                              |                                                                    |                                                                   | EMX-TGLC                                                                                                                                                   |
| Processor                  | On board 11th Gen. Intel® Core™ i7/i5/i3/ Celeron BGA Processor                                                      |                                                                    |                                                                   | On board 11th Gen. Intel® Core™ i5/i3/Celeron BGA<br>Processor                                                                                             |
| I/O Chipset                | EC (IT8528VG-I/FX)                                                                                                   |                                                                    |                                                                   | EC (ITE IT8528E)                                                                                                                                           |
| System Memory              | Single 260-pin DDR4 SODIMM Socket, Supports up to 32GB DDR4 3200MTs SDRAM                                            |                                                                    |                                                                   | 2 x 260-pin DDR4 3200 MHz SO-DIMM Socket,<br>up to 64GB Max                                                                                                |
| Expansion                  | 1 x M.2 Key-E 2230 for for Wi-Fi & BT Module<br>1 x M.2 Key-B 2242/3042/3052 for SATA3/PCIe x1/ USB3.1               |                                                                    |                                                                   | 1 x M.2 Key B 3042/3052/2242/2260/2280 for SATA/ USB<br>3.0/ USB 2.0, 1 x M.2 Key E 2230 Support WiFi Module                                               |
| Storage                    | 1 x M.2 Key-B 2242/3042/3052 for SATA3/PCIe x1/ USB3.1<br>or 1 x 2.5" Drive Bay (7mm HDD Restricted)                 |                                                                    |                                                                   | 1 x M.2 Key B 3042/3052/2242/2260/2280 Support 1 x<br>PCIe x1/SATA/ USB 3.0/ USB 2.0 or 1 x 2.5" Drive Bay                                                 |
| USB                        | 4 x USB 3.1 Gen.2                                                                                                    |                                                                    |                                                                   | 3 x USB 3.1 Gen2, 1 x USB 3.1 Gen1, 3 x USB 2.0 (Optional)<br>*1 x USB 2.0 for Option Shared The Same Port with COM                                        |
| COM Port                   | 1 x RS-232/422/485, Selectable by BIOS, RS-485 Supports Auto Flow, Pin-9 Selected by Ring/ +5V/<br>+12V); 1 x RS-232 |                                                                    |                                                                   | COM1: 1 x RS-232/422/485 (Default); COM2: 1 x RS-<br>232/422/485 (Optional); COM3: 1 x RS-232 (Optional)<br>COM4 ~ 6: 3 x RS-232/ GPIO/ USB 2.0 (Optional) |
| Display Chipset            | Intel® 11th Generation CPU Integrated                                                                                |                                                                    |                                                                   | Intel® 11th Generation CPU Integrated                                                                                                                      |
| Display Resolution         | HDMI: Max. Resolution 4096 x 2160 @ 60Hz (Optional by IET Module)                                                    |                                                                    |                                                                   | 2 x DP++: 1920 x 1080 @ 60Hz                                                                                                                               |
| Audio                      | Realtek ALC897                                                                                                       |                                                                    |                                                                   | Realtek ALC897 Co-lay ALC888S & Tempo 92HD73                                                                                                               |
| Audio Interface            | 2 x 2W Speakers                                                                                                      |                                                                    |                                                                   | 2 x 5W Speakers                                                                                                                                            |
| Ethernet                   | 1 x Intel® I219LM PCI-e Gigabit Ethernet, 1 x Intel® I225LM 2.5 Gigabit Ethernet                                     |                                                                    |                                                                   | 1 x Intel® I219LM Gigabit Ethernet PHY (LAN1)<br>1 x Intel® I226LM 2.5 Gigabit Ethernet (LAN2)                                                             |
| Power Connector            | Lockable DC Jack, +12 ~ 24V                                                                                          |                                                                    |                                                                   | Mini-DIN 4pin DC-in, +12V ~ 24V DC-in                                                                                                                      |
| Power Type                 | AT/ ATX (ATX is Default Setting)                                                                                     |                                                                    |                                                                   | AT/ ATX (ATX is Default Setting)                                                                                                                           |
| Adapter                    | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 72W Adapter (19V @ 3.78A)                                                  |                                                                    | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 120W Adapter (24V @ 5A) | Input: 100 ~ 240vac/ 50 ~ 60Hz<br>Output: 120W Adapter (24V @ 5A)                                                                                          |
| Construction (Front, Rear) | A Model: Front Metal, Rear Aluminum Die Casting; B Model: Aluminum Die Casting                                       |                                                                    |                                                                   | Front Aluminum Die Casting, Rear Aluminum Alloy                                                                                                            |
| Operating Temperature      | -10°C ~ 50°C (14°F ~ 122°F)                                                                                          |                                                                    |                                                                   | 0°C ~ 50°C (32°F ~ 122°F)                                                                                                                                  |
| Storage Temperature        | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                          |                                                                    |                                                                   | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                |
| Certification              | CE, FCC Class B                                                                                                      |                                                                    |                                                                   | CE, FCC Class A, CCC                                                                                                                                       |
| OS Information             | Windows 10 IoT, Windows 11 IoT, Linux                                                                                |                                                                    |                                                                   | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                                      |
| Dimension                  | A Model: 283 x 221 x 51.2 mm<br>B Model: 284 x 223 x 46 mm                                                           | A Model: 350 x 274 x 54.5 mm<br>B Model: 350.51 x 274.51 x 56.5 mm | 538.05 x 341.05 x 64 mm                                           | 393 x 325 x 72 mm                                                                                                                                          |
| Weight                     | 2.4 kg                                                                                                               |                                                                    | 7.3 kg                                                            | 4.4 kg                                                                                                                                                     |

堅牢タッチパネル PC



| Model Number               | FPC-08W29                                                                           | FPC-10W09                                                                           |
|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| LCD Size                   | 8"                                                                                  | 10.1"                                                                               |
| Display Type               | WSVGA                                                                               | WSVGA                                                                               |
| Resolution                 | 1024 x 600                                                                          | 1024 x 600                                                                          |
| Pixel Pitch                | 0.1725 mm (H) x 0.1656 mm (V)                                                       | 0.2175 mm (H) x 0.2088 mm (V)                                                       |
| Luminance                  | 500 cd/m²                                                                           | 350 cd/m²                                                                           |
| Contrast Ratio             | 700                                                                                 | 500                                                                                 |
| Viewing Angle              | 70 (U), 75 (D), 75 (L), 75 (R)                                                      | 70 (U), 70 (D), 70 (L), 70 (R)                                                      |
| Response Time              | 20 ms                                                                               | 16 ms                                                                               |
| Backlight                  | LED                                                                                 | LED                                                                                 |
| Touch Type                 | 5-Wire Resistive                                                                    | 5-Wire Resistive                                                                    |
| Touch Light Transmission   | 80 %                                                                                | 80 %                                                                                |
| Touch Controller           | Onboard USB Touch (PenMount)                                                        | Onboard USB Touch (PenMount)                                                        |
| SBC                        | ECM-BYT                                                                             | ECM-BYT                                                                             |
| Processor                  | Intel® Atom™ E3845 4-Core 1.91GHz Processor                                         | Intel® Atom™ E3845 4-Core 1.91GHz Processor                                         |
| System Chipset             | Intel® Valleyview SoC                                                               | Intel® Valleyview SoC                                                               |
| I/O Chipset                | Nuvoton W83627DHG-P                                                                 | Nuvoton W83627DHG-P                                                                 |
| System Memory              | 1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8GB                                         | 1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB                                        |
| Expansion                  | 1 x Mini PCIe Supports mSATA                                                        | 1 x Mini PCIe Supports mSATA                                                        |
| Storage                    | 1 x CompactFlash Type I/II Socket (CF-SATA Optional)                                | 2.5" SSD/ HDD or Type I/II CF Card                                                  |
| I/O                        | 3 x USB 2.0, 1 x USB 3.0<br>1 x RS-232/422/485, 1 x RS-232                          | 4 x USB 2.0, 1 x USB 3.0<br>1 x RS-232/422/485                                      |
| Display Chipset            | Intel® Valleyview SoC Integrated Graphics Supports Dual Display                     | Intel® Valleyview SoC Integrated Graphics Supports Dual Display                     |
| Display Resolution         | VGA: Max. Resolution 2560 x 1080 @ 60Hz<br>HDMI: Max. Resolution 1920 x 1200 @ 60Hz | VGA: Max. Resolution 2560 x 1080 @ 60Hz<br>HDMI: Max. Resolution 1920 x 1200 @ 60Hz |
| Audio                      | Realtek ALC888S Support 5.1-CH                                                      | Realtek ALC888S Support 5.1-CH                                                      |
| Ethernet                   | 2 x Intel® I210AT                                                                   | 2 x Intel® I210AT                                                                   |
| Power Type                 | AT/ ATX (ATX is Default Setting), Lockable DC Jack, +12V ~ +26V (12V @ 5A Adapter)  | AT/ ATX (ATX is Default Setting), Lockable DC Jack, +12V ~ +26V (12V @ 5A Adapter)  |
| Construction (Front, Rear) | Metal, Aluminum + Metal                                                             | Metal, Aluminum + Metal                                                             |
| Dimension                  | 225 x 129 x 43.4 mm                                                                 | 300 x 195 x 56 mm                                                                   |
| Weight                     | 1.27 kg                                                                             | 1.50 kg                                                                             |
| Operating Temperature      | 0°C ~ 40°C (32°F ~ 104°F)                                                           | 0°C ~ 40°C (32°F ~ 104°F)                                                           |
| Storage Temperature        | -10°C ~ 50°C (14°F ~ 122°F)                                                         | -10°C ~ 50°C (14°F ~ 122°F)                                                         |
| Certification              | CE, FCC Class B                                                                     | CE, FCC Class B                                                                     |
| OS Information             | Windows 7, Windows 8.1, Linux, Windows 10 IoT                                       | Windows 7, Windows 8.1, Linux, Windows 10 IoT                                       |

堅牢タッチパネル PC



| FPC-10W39                                                                             | FPC-1736                                                                              | FPC-21W42                                                                              |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 10.1"                                                                                 | 17"                                                                                   | 21.5                                                                                   |
| WSVGA                                                                                 | SWGA                                                                                  | FHD                                                                                    |
| 1024 x 600                                                                            | 1280 x 1024                                                                           | 1920 x 1080                                                                            |
| 0.2175 mm (H) x 0.2088 mm (V)                                                         | 0.264 mm (H) x 0.264 mm (V)                                                           | 0.248 mm (H) x 0.248 mm (V)                                                            |
| 350 cd/m²                                                                             | 250 cd/m²                                                                             | 250 cd/m²                                                                              |
| 500                                                                                   | 1000                                                                                  | 1000                                                                                   |
| 70 (U), 70 (D), 70 (L), 70 (R)                                                        | 80 (U), 80 (D), 85 (L), 85 (R)                                                        | 89 (U), 89 (D), 89 (L), 89 (R)                                                         |
| 16 ms                                                                                 | 5 ms                                                                                  | 20 ms                                                                                  |
| LED                                                                                   | LED                                                                                   | LED                                                                                    |
| 5-Wire Resistive                                                                      | Projective Capacitive                                                                 | Projective Capacitive                                                                  |
| 80 %                                                                                  | 89 %                                                                                  | 85%                                                                                    |
| Onboard USB Touch (EETI)                                                              | Onboard USB Touch (ILITEK)                                                            | Onboard USB Touch (EETI)                                                               |
| ECM-ASL                                                                               | EMX-H3102C                                                                            | MX610H                                                                                 |
| Intel® Processor N97 3.60GH Processor                                                 | Intel® Core™ i3/i5/i7 Processors (LGA1151 Socket, Max. TDP at 65W)                    | 13th Generation Intel® Core™ i3/i5/i7 Processors (LGA1700 Socket)                      |
| N/A                                                                                   | Intel® H310 Express Chip                                                              | Intel® H610E                                                                           |
| ITE IT5782VG                                                                          | ITE IT8786E-I                                                                         | Fintek® F81966AB-I                                                                     |
| 1 x 262-Pin DDR5 4800MHz SO-DIMM up to 16GB Max                                       | 2 x 260-Pin DDR4 2666MHz SO-DIMM up to 64GB Max                                       | 2 x 262-pin DDR5 4800MHz SO-DIMM up to 64GB Max                                        |
| 1 x M.2 E-key Slot, Type-2230 with PCIe                                               | 1 x PCIe x4 Slot (Option for 2 x PCI Slot)<br>1 x M.2 E-key Slot, Type-2230 with PCIe | 1 x PCIe x16 Slot (Option for 2 x PCI Slot)<br>1 x M.2 E-key Slot, Type-2230 with PCIe |
| 1 x M.2 B-Key 2242 with PCIe x1                                                       | 1 x M.2 M-key 2242 with SATA                                                          | 1 x M.2 M-key 2280/2242 with SATA                                                      |
| 3 x USB 3.2, 1 x USB 2.0<br>1 x RS-422/485                                            | 4 x USB 3.0<br>4 x RS-232                                                             | 4 x USB 3.2, 2 x USB 2.0<br>2 x RS-232/422/485                                         |
| Intel® UHD Graphics Integrated Graphics Supports Triple Display                       | Intel® 8/ 9th Generation CPU Integrated                                               | Intel® UHD Graphics Integrated Graphics Supports Triple Display                        |
| HDMI: Max. Resolution 4096 x 2160 @ 60Hz                                              | VGA: Max. Resolution 2560 x 1080 @ 60Hz<br>HDMI: Max. Resolution 1920 x 1200 @ 60Hz   | DP: Max. Resolution 4096 x 2304 @ 60Hz<br>HDMI: Max. Resolution 3840 x 2160 @ 30Hz     |
| Realtek ALC888S                                                                       | Realtek ALC888S Support 5.1-CH                                                        | Realtek ALC897                                                                         |
| 2 x Intel® I226V/I226IT 2.5 Gigabit Ethernet                                          | 1 x Intel® I219-V Gigabit Ethernet<br>1 x Intel® I225-V 2.5 Gigabit Ethernet          | 1 x Intel® I219-LM Gigabit Ethernet<br>1 x Intel® I225-V 2.5 Gigabit Ethernet          |
| AT/ ATX (ATX is Default Setting), Lockable DC Jack, +12V ~ +26V (19V @ 3.78A Adapter) | AT/ ATX (ATX is Default Setting), Lockable DC Jack, +12V ~ +24V (19V @ 6.32A Adapter) | AT/ ATX (ATX is Default Setting), PSU Flex ATX 300W                                    |
| Metal, Aluminum + Metal                                                               | Metal                                                                                 | Metal                                                                                  |
| 300 x 195 x 73 mm                                                                     | 392.7 x 325.32 x 121.55 mm                                                            | 538 x 341 x 122 mm                                                                     |
| 1.50 kg                                                                               | 7.5 kg                                                                                | 12.6 kg                                                                                |
| 0°C ~ 40°C (32°F ~ 104°F)                                                             | 0°C ~ 45°C (32°F ~ 113°F)                                                             | 0°C ~ 45°C (32°F ~ 113°F)                                                              |
| -10°C ~ 50°C (14°F ~ 122°F)                                                           | -20°C ~ 60°C (-4°F ~ 140°F)                                                           | -20°C ~ 60°C (-4°F ~ 140°F)                                                            |
| CE, FCC Class B, UKCA, LVD, VCCI                                                      | CE, FCC Class A, CCC                                                                  | CE, FCC Class B, UKCA, LVD, VCCI                                                       |
| Windows 10, Windows 11, Linux                                                         | Windows 10 IoT, Linux                                                                 | Windows 10, Windows 11, Linux                                                          |

ステンレス製 タッチパネル PC



| Model Number               | SPC-1542                                                                                                                             | SPC-2142                                                                                                                             | SPC-10W35                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| LCD Size                   | 15", 4:3                                                                                                                             | 21.5", 16:9                                                                                                                          | 10.1", 16:10                                                                                           |
| Display Type               | XGA                                                                                                                                  | Full HD                                                                                                                              | WXGA                                                                                                   |
| Resolution                 | 1024 x 768                                                                                                                           | 1920 x 1080                                                                                                                          | 1280 x 800                                                                                             |
| Pixel Pitch                | 0.297 x 0.297 mm                                                                                                                     | 0.248 x 0.248 mm                                                                                                                     | 0.1695mm (H) x 0.1695mm (V)                                                                            |
| Luminance                  | 300 cd/m²                                                                                                                            | 250 cd/m²                                                                                                                            | 350 cd/m²                                                                                              |
| Contrast Ratio             | 2000                                                                                                                                 | 3000                                                                                                                                 | 800                                                                                                    |
| Viewing Angle              | 88 (U), 88 (D), 88 (L), 88 (R)                                                                                                       | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                       | 85 (U), 85 (D), 85 (L), 85 (R)                                                                         |
| Response Time              | 16 ms                                                                                                                                | 18 ms                                                                                                                                | 25 ms                                                                                                  |
| Backlight                  | LED                                                                                                                                  | LED                                                                                                                                  | LED                                                                                                    |
| Touch Type                 | PCAP Multi-touch up to 10 Points                                                                                                     | PCAP Multi-touch up to 10 Points                                                                                                     | PCAP Multi-touch up to 10 Points                                                                       |
| Touch Light Transmission   | 89%                                                                                                                                  | 89%                                                                                                                                  | 88 %                                                                                                   |
| Touch Controller           | USB (EETI)                                                                                                                           | USB (EETI)                                                                                                                           | EETI                                                                                                   |
| SBC                        | HID-2340                                                                                                                             | HID-2340                                                                                                                             | ECM-EHL3                                                                                               |
| Processor                  | Socketed FCLGA1700 Intel® 12th/13th Gen Core™ i7/i5/i3 Processor                                                                     | Socketed FCLGA1700 Intel® 12th/13th Gen Core™ i7/i5/i3 Processor                                                                     | Onboard Intel® Elkhart Lake Processor                                                                  |
| I/O Chipset                | ITE IT8883FN-I                                                                                                                       | ITE IT8883FN-I                                                                                                                       | IT557IE                                                                                                |
| System Memory              | 1 x 262-pin DDR5 4800MHz SO-DIMM, up to 32GB Max.                                                                                    | 1 x 262-pin DDR5 4800MHz SO-DIMM, up to 32GB Max.                                                                                    | 1 x 204-Pin DDR4 3200MHz SO-DIMM, up to 32GB Max.                                                      |
| Expansion                  | 1 x M.2 Key-B 2280/3042/3052 with SIM Card Slot Support SATA3/ PCIe & USB for LTE (4/5G)<br>1 x M.2 Key-E, 2230 Supports WiFi Module | 1 x M.2 Key-B 2280/3042/3052 with SIM Card Slot Support SATA3/ PCIe & USB for LTE (4/5G)<br>1 x M.2 Key-E, 2230 Supports WiFi Module | 1 x M.2 key-E 2230 Supports WiFi Module<br>1 x M.2 key-B 3042/2242<br>1 x M.2 key-M Supports 2260 Slot |
| Storage                    | 1 x M.2 Support SATA, 1 x 2.5" SATA3 Drive Bay                                                                                       | 1 x M.2 Support SATA, 1 x 2.5" SATA3 Drive Bay                                                                                       | 1 x M.2 Support SATA, 1 x 2.5" SATA3 Drive Bay                                                         |
| USB                        | 2 x M12 Connector (USB2.0)                                                                                                           | 2 x M12 Connector (USB2.0)                                                                                                           | 2 x M12 Connector (USB2.0)                                                                             |
| COM Port                   | 1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)                                                                         | 1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)                                                                         | 1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)                                           |
| Display Chipset            | Intel® UHD Graphics                                                                                                                  | Intel® UHD Graphics                                                                                                                  | Intel® SoC Integrated Graphics                                                                         |
| Audio                      | Realtek ALC 888S                                                                                                                     | Realtek ALC 888S                                                                                                                     | Realtek ALC 888S                                                                                       |
| Ethernet                   | 1 x M12 Connector (1 x Intel® I225LM, 1 x Intel® I226LM 2.5 Gigabit Ethernet)                                                        | 1 x M12 Connector (1 x Intel® I225LM, 1 x Intel® I226LM 2.5 Gigabit Ethernet)                                                        | 1 x M2 Connector (2 x Intel® I210AT PCIe Gigabit Ethernet)                                             |
| Power Connector            | 1 x M12 DC Jack, +12V ~ 24V                                                                                                          | 1 x M12 DC Jack, +12V ~ 24V                                                                                                          | 1 x M12 DC Jack, +12V ~ 24V                                                                            |
| Power Type                 | AT/ ATX (ATX is Default Setting)                                                                                                     | AT/ ATX (ATX is Default Setting)                                                                                                     | AT/ ATX (ATX is Default Setting)                                                                       |
| Adapter                    | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 90W Adapter (24V @ 3.75A Adapter)                                                          | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 90W Adapter (24V @ 3.75A Adapter)                                                          | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (24V @ 2.5A Adapter)                             |
| Construction (Front, Rear) | Stainless Steel                                                                                                                      | Stainless Steel                                                                                                                      | Stainless Steel                                                                                        |
| Operating Temperature      | -10°C ~ 50°C (-14°F ~ 122°F)                                                                                                         | -10°C ~ 50°C (-14°F ~ 122°F)                                                                                                         | -10°C ~ 50°C (-14°F ~ 122°F)                                                                           |
| Storage Temperature        | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                          | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                          | -20°C ~ 60°C (-4°F ~ 140°F)                                                                            |
| Certification              | CE, FCC Class A                                                                                                                      | CE, FCC Class A                                                                                                                      | CE, FCC Class A                                                                                        |
| OS Information             | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                | Windows 10 IoT, Windows 11 IoT, Linux                                                                  |
| IP Rating                  | Full IP66, IP69K                                                                                                                     | Full IP66, IP69K                                                                                                                     | Full IP66, IP69K                                                                                       |
| Dimension                  | TBD                                                                                                                                  | 562 x 365.8 x 49 mm                                                                                                                  | 296 x 214 x 49 mm                                                                                      |
| Weight                     | 5.7 kg                                                                                                                               | 11.3 kg                                                                                                                              | 3 kg                                                                                                   |

ステンレス製 タッチパネル PC



| SPC-1533-B1                                                                                                                                  | SPC-2133-B1                                                                                                                                  | SPC-15W37                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 15", 4:3                                                                                                                                     | 21.5", 16:9                                                                                                                                  | 15.6", 16:9                                                                                                                            |
| XGA                                                                                                                                          | Full HD, 1920 x 1080                                                                                                                         | Full HD                                                                                                                                |
| 1024 x 768                                                                                                                                   |                                                                                                                                              | 1920 x 1080                                                                                                                            |
| 0.297 x 0.297 mm                                                                                                                             | 0.248 x 0.248 mm                                                                                                                             | 179.25 um (H) x 179.25 um (V)                                                                                                          |
| 300 cd/m²                                                                                                                                    | 250 cd/m²                                                                                                                                    | 450 cd/m²                                                                                                                              |
| 2000                                                                                                                                         | 3000                                                                                                                                         | 800                                                                                                                                    |
| 88 (U), 88 (D), 88 (L), 88 (R)                                                                                                               | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                               | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                         |
| 16 ms                                                                                                                                        | 18 ms                                                                                                                                        | 30 ms                                                                                                                                  |
| LED                                                                                                                                          | LED                                                                                                                                          | LED                                                                                                                                    |
| PCAP Multi-touch up to 10 Points                                                                                                             | PCAP Multi-touch up to 10 Points                                                                                                             | PCAP Multi-touch up to 10 Points                                                                                                       |
| 89%                                                                                                                                          | 89%                                                                                                                                          | 89%                                                                                                                                    |
| USB (EETI)                                                                                                                                   | USB (EETI)                                                                                                                                   | USB (EETI)                                                                                                                             |
| EMX-APLP                                                                                                                                     | EMX-APLP                                                                                                                                     | EMX-ASLP                                                                                                                               |
| Onboard Intel® Apollo Lake Processor                                                                                                         | Onboard Intel® Apollo Lake Processor                                                                                                         | Onboard Intel® Alder Lake-N Processor                                                                                                  |
| ITE IT8528                                                                                                                                   | ITE IT8528                                                                                                                                   | IT5782VG                                                                                                                               |
| 2 x 204-pin DDR3L 1600MTs, up to 16GB Max.                                                                                                   | 2 x 204-pin DDR3L 1600MTs, up to 16GB Max.                                                                                                   | 1 x 262-pin DDR5 4800MHz SO-DIMM, up to 16GB Max.                                                                                      |
| 1 x Full Size Mini PCI-e Support mSATA (SATA III and mSATA by Auto Switch IC)<br>1 x SIM Card Slot 1 x M.2 (2230) A-Key, Support WiFi Module | 1 x Full Size Mini PCI-e Support mSATA (SATA III and mSATA by Auto Switch IC)<br>1 x SIM Card Slot 1 x M.2 (2230) A-Key, Support WiFi Module | 1 x M.2 Key-B, 2242/3042/3052, with SIM Card Slot Support SATA3/ PCIe & USB for LTE (4/5G)<br>1 x M.2 Key-E, 2230 supports WiFi module |
| 1 x Full Size Mini PCI-e mSATA, 1 x 2.5" SATA3 Drive Bay                                                                                     | 1 x Full Size Mini PCI-e mSATA, 1 x 2.5" SATA3 Drive Bay                                                                                     | 1 x M.2 Support SATA, 1 x 2.5" SATA3 Drive Bay                                                                                         |
| 2 x M12 Connector (USB2.0)                                                                                                                   | 2 x M12 Connector (USB2.0)                                                                                                                   | 2 x M12 Connector (USB 2.0)                                                                                                            |
| 1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)                                                                                 | 1 x M12 Connector (RS232/422/485 by Jumper & BIOS Selection)                                                                                 | 1 x M12 Connector (RS-232/422/485 by Jumper & BIOS Selection)                                                                          |
| Intel® SoC integrated Graphics                                                                                                               | Intel® SoC integrated Graphics                                                                                                               | Intel® UHD Graphics                                                                                                                    |
| Realtek ALC 888S/897                                                                                                                         | Realtek ALC 888S/897                                                                                                                         | Realtek ALC 888S/ 897                                                                                                                  |
| 1 x M2 Connector (1 x Intel® I210AT PCIe Gigabit Ethernet)                                                                                   | 1 x M2 Connector (1 x Intel® I210AT PCIe Gigabit Ethernet)                                                                                   | 1 x M2 Connector (2 x Intel® I226LM 2.5 Gigabit Ethernet)                                                                              |
| 1 x M12 DC Jack, +12V ~ 26V (Option for Phoenix Connector)                                                                                   | 1 x M12 DC Jack, +12V ~ 26V (Option for Phoenix Connector)                                                                                   | 1 x M12 DC Jack, +12 ~ 24V                                                                                                             |
| AT/ ATX (ATX is Default Setting)                                                                                                             | AT/ ATX (ATX is Default Setting)                                                                                                             | AT/ ATX (ATX is Default Setting)                                                                                                       |
| Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter)                                                                     | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter)                                                                     | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 72W Adapter (19V @ 3.78A Adapter)                                                            |
| Stainless Steel                                                                                                                              | Stainless Steel                                                                                                                              | Stainless Steel                                                                                                                        |
| -10°C ~ 50°C (-14°F ~ 122°F)                                                                                                                 | -10°C ~ 50°C (-14°F ~ 122°F)                                                                                                                 | -10°C ~ 50°C (-14°F ~ 122°F)                                                                                                           |
| -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                  | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                  | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                            |
| CE, FCC Class A                                                                                                                              | CE, FCC Class A                                                                                                                              | CE, FCC Class A                                                                                                                        |
| Windows 10 IoT, Linux, Android x86 8.1                                                                                                       | Windows 10 IoT, Linux, Android x86 8.1                                                                                                       | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                  |
| Full IP66, IP69K                                                                                                                             | Full IP66, IP69K                                                                                                                             | Full IP66, IP69K                                                                                                                       |
| 393 x 315.8 x 49 mm                                                                                                                          | 562 x 365.8 x 49 mm                                                                                                                          | TBD                                                                                                                                    |
| 5.7 kg                                                                                                                                       | 9.4 kg                                                                                                                                       | 5.7 kg                                                                                                                                 |



汎用型 タッチパネル PC



| Model Number             | SID-10WR2                                                                 | SID-15WR2                                                                 | SID-21WR2                                                                 | SID-10W04                                                                 |
|--------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| LCD Size                 | 10.1"                                                                     | 15.6"                                                                     | 21.5"                                                                     | 10.1"                                                                     |
| Resolution               | 1280 x 800                                                                | 1920 x 1080                                                               | 1920 x 1080                                                               | 1280 x 800                                                                |
| Pixel Pitch              | 0.1695 x 0.1695 mm                                                        | 0.153 (H) x 0.153 (V) mm                                                  | 0.24795 x 0.24795 mm                                                      | 0.1692 x 0.1692 mm                                                        |
| Luminance                | 350 cd/m²                                                                 | 300 cd/m²                                                                 | 250 cd/m²                                                                 | 350 cd/m²                                                                 |
| Contrast Ratio           | 800                                                                       | 700                                                                       | 3000                                                                      | 800                                                                       |
| Viewing Angle            | 85 (U), 85 (D), 85 (L), 85 (R)                                            | 85 (U), 85 (D), 85 (L), 85 (R)                                            | 89 (U), 89 (D), 89 (L), 89 (R)                                            | 85 (U), 85 (D), 85 (L), 85 (R)                                            |
| Response Time            | 30 ms                                                                     | 30 ms                                                                     | 30 ms                                                                     | 30 ms                                                                     |
| Backlight                | LED                                                                       | ELED                                                                      | LED                                                                       | LED                                                                       |
| Touch Type               | PCAP                                                                      | PCAP                                                                      | PCAP                                                                      | PCAP                                                                      |
| Touch Light Transmission | 86%                                                                       | 86%                                                                       | 86%                                                                       | 86%                                                                       |
| SBC                      | ACP-RK3568                                                                | ACP-RK3568B                                                               | ACP-RK3568                                                                | ACP-APL                                                                   |
| Processor                | Rockchip RK3568                                                           | Rockchip RK3568                                                           | Rockchip RK3568                                                           | Intel Celeron J3455 1.5GHz                                                |
| I/O Chipset              | Rockchip SoC Integrated                                                   | Rockchip SoC Integrated                                                   | Rockchip SoC Integrated                                                   | Intel Celeron Integrated                                                  |
| Memory                   | 2GB DDR4 on board                                                         | 4GB DDR4 on board                                                         | 2GB DDR4 on board                                                         | 1 x 4GB 204 pin SO-DIMM DDR3L                                             |
| Storage                  | 32GB eMMC on board                                                        | 32GB eMMC on board                                                        | 32GB eMMC on board                                                        | 32GB eMMC/ M.2 3042 SSD                                                   |
| Graphics                 | Mali-G52 GPU                                                              | Mali-G52 GPU                                                              | Mali-G52 GPU                                                              | Intel® HD Graphics 500                                                    |
| HDMI Resolution          | HDMI up to 1080p @ 120Hz                                                  | 1 x HDMI-in                                                               | HDMI up to 1080p @ 120Hz                                                  | HDMI up to 1080p @ 60Hz                                                   |
| USB Port                 | 2 x USB 3.0 Type A                                                        | 1 x USB type-A 3.0<br>1 x USB type-A 2.0<br>1 x USB type-C                | 2 x USB 3.0 Type A                                                        | 2 x USB 3.0 Type A                                                        |
| Serial Port              | 1 x RS-232 DB9                                                            | N/A                                                                       | 1 x RS-232 DB9                                                            | 1 x RS-232/485 DB9                                                        |
| Audio Interface          | 1 x Headphone Jack                                                        | N/A                                                                       | 1 x Headphone Jack                                                        | 1 x Headphone Jack                                                        |
| Ethernet                 | 10/100/1000 RJ45 LAN                                                      | 10/100/1000 RJ45 LAN                                                      | 10/100/1000 RJ45 LAN                                                      | 10/100/1000 RJ45 LAN                                                      |
| Wi-Fi                    | Wi-Fi 802.11 a/b/g/n/ac                                                   | Wi-Fi 802.11 a/b/g/n/ac                                                   | Wi-Fi 802.11 a/b/g/n/ac                                                   | Wi-Fi 802.11 a/b/g/n/ac                                                   |
| Bluetooth                | BT 5.0                                                                    | BT 5.4                                                                    | BT 5.0                                                                    | BT 5.0                                                                    |
| Power Connector          | DC Jack +12 ~ +24VDC                                                      | DC Jack +12 VDC/ Powered LAN                                              | DC Jack +12 ~ +24VDC                                                      | DC Jack +12 ~ +24VDC                                                      |
| Power Type               | AT/ ATX (AT is Default Setting)                                           | AT/ ATX (AT is Default Setting)                                           | AT/ ATX (AT is Default Setting)                                           | AT/ ATX (AT is Default Setting)                                           |
| Adapter                  | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 24W Adapter (12V @ 2A Adapter) | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) |
| Construction/Color       | Metal, Black                                                              | Plastic, Black                                                            | Metal, Black                                                              | Metal, Black                                                              |
| Mounting                 | VESA 75 x 75                                                              | VESA 75 x 75                                                              | VESA 100 x 100                                                            | VESA 75 x 75                                                              |
| Dimension                | 255.2 x 169.4 x 40.7 mm                                                   | 370 x 228 x 23.5mm                                                        | 533.3 x 329.3 x 56.6 mm                                                   | 258.8 x 182.8 x 49.6 mm                                                   |
| Weight                   | 1.36 kg                                                                   | 2.1 kg                                                                    | 7.2 kg                                                                    | 1.36 kg                                                                   |
| IP Rating                | Front IP65                                                                | N/A                                                                       | Front IP65                                                                | Front IP65                                                                |
| Operating Temperature    | 0°C ~ 40°C (32°F ~ 104°F)                                                 | 0°C ~ 40°C (32°F ~ 104°F)                                                 | 0°C ~ 40°C (32°F ~ 104°F)                                                 | 0°C ~ 40°C (32°F ~ 104°F)                                                 |
| Operating Humidity       | 5% ~ 90% Relative Humidity, Non-condensing                                | 20% ~ 80% Relative Humidity, Non-condensing                               | 5% ~ 90% Relative Humidity, Non-condensing                                | 5% ~ 90% Relative Humidity, Non-condensing                                |
| Certification            | CE, FCC Class B                                                           | CE, FCC Class B                                                           | CE, FCC Class B                                                           | CE, FCC Class B                                                           |
| OS Information           | Android 11, Debian 11                                                     | Android 14                                                                | Android 11, Debian 11                                                     | Windows 10 IoT<br>Ubuntu 20.04                                            |

汎用型 タッチパネル PC



| SID-15W04                                                                 | SID-21W04                                                                 | SID-10WAD                                                                 | SID-15WAD                                                                 | SID-21WAD                                                                 |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 15.6"                                                                     | 21.5"                                                                     | 10.1"                                                                     | 15.6"                                                                     | 21.5"                                                                     |
| 1920 x 1080                                                               | 1920 x 1080                                                               | 800 x 1280                                                                | 1920 x 1080                                                               | 1920 x 1080                                                               |
| 0.17925 x 0.17925 mm                                                      | 0.24795 x 0.24795 mm                                                      | 0.1692X0.1692 mm                                                          | 0.17925 x 0.17925 mm                                                      | 0.24795 x 0.24795 mm                                                      |
| 220 cd/m²                                                                 | 250 cd/m²                                                                 | 350 cd/m²                                                                 | 220 cd/m²                                                                 | 500 cd/m²                                                                 |
| 800                                                                       | 3000                                                                      | 1000                                                                      | 800                                                                       | 1000                                                                      |
| 85 (U), 85 (D), 85 (L), 85 (R)                                            | 89 (U), 89 (D), 89 (L), 89 (R)                                            | 85 (U), 85 (D), 85 (L), 85 (R)                                            | 85 (U), 85 (D), 85 (L), 85 (R)                                            | 89 (U), 89 (D), 89 (L), 89 (R)                                            |
| 30 ms                                                                     | 30 ms                                                                     | 25 ms                                                                     | 30 ms                                                                     | 14 ms                                                                     |
| LED                                                                       | LED                                                                       | LED                                                                       | LED                                                                       | LED                                                                       |
| PCAP                                                                      | PCAP                                                                      | PCAP                                                                      | PCAP                                                                      | PCAP                                                                      |
| 85%                                                                       | 86%                                                                       | 85%                                                                       | 85%                                                                       | 85%                                                                       |
| ACP-APL                                                                   | ACP-APL                                                                   | ACP-ADL                                                                   | ACP-ADL                                                                   | ACP-ADL                                                                   |
| Intel Celeron J3455 1.5GHz                                                | Intel Celeron J3455 1.5GHz                                                | Intel® N50 1.0 GHz                                                        | Intel® N50 1.0 GHz                                                        | Intel® N50 1.0 GHz                                                        |
| Intel Celeron Integrated                                                  | Intel Celeron Integrated                                                  | Intel® N50 Integrated                                                     | Intel® N50 Integrated                                                     | Intel® N50 Integrated                                                     |
| 1 x 4GB 204 pin SO-DIMM DDR3L                                             | 1 x 4GB 204 pin SO-DIMM DDR3L                                             | 8GB LPDDR5 on board                                                       | 8GB LPDDR5 on board                                                       | 8GB LPDDR5 on board                                                       |
| 32GB (eMMC)/ M.2 3042 SSD                                                 | 32GB (eMMC)/ M.2 3042 SSD                                                 | 64GB eMMC<br>32/ 128GB (Optional)                                         | 64GB eMMC<br>32/ 128GB (Optional)                                         | 64GB eMMC<br>32/ 128GB (Optional)                                         |
| Intel® HD Graphics 500                                                    | Intel® HD Graphics 500                                                    | Intel® UHD Graphics                                                       | Intel® UHD Graphics                                                       | Intel® UHD Graphics                                                       |
| HDMI up to 1080p @ 60Hz                                                   | HDMI up to 1080p @ 60Hz                                                   | HDMI up to 4096x2304@60fps                                                | N/A                                                                       | N/A                                                                       |
| 2 x USB 3.0 Type A                                                        | 2 x USB 3.0 Type A                                                        | 2 x USB 3.0 Type A                                                        | 2 x USB 3.0 Type A                                                        | 2 x USB 3.0 Type A                                                        |
| 1 x RS-232/485 DB9                                                        | 1 x RS-232/485 DB9                                                        | 1 x RS-485/232                                                            | 1 x RS-232/422/485 (RJ45 Type)                                            | 1 x RS-232/422/485 (RJ45 Type)                                            |
| 1 x Headphone Jack                                                        | 1 x Headphone Jack                                                        | 1 x Headphone Jack                                                        | 1 x Headphone Jack                                                        | 1 x Headphone Jack                                                        |
| 10/100/1000 RJ45 LAN                                                      | 10/100/1000 RJ45 LAN                                                      | 10/100/1000 RJ45 LAN                                                      | 10/100/1000 RJ45 LAN                                                      | 10/100/1000 RJ45 LAN                                                      |
| Wi-Fi 802.11 a/b/g/n/ac                                                   | Wi-Fi 802.11 a/b/g/n/ac                                                   | Wi-Fi 802.11 a/b/g/n/ac/ax                                                | Wi-Fi 802.11 a/b/g/n/ac/ax                                                | Wi-Fi 802.11 a/b/g/n/ac/ax                                                |
| BT 5.0                                                                    | BT 5.0                                                                    | BT 5.2                                                                    | BT 5.2                                                                    | BT 5.2                                                                    |
| DC Jack +12 ~ +24VDC                                                      | DC Jack +12 ~ +24VDC                                                      | DC Jack +12 ~ +24VDC                                                      | DC Jack +12 ~ +24VDC                                                      | DC Jack +12 ~ +24VDC                                                      |
| AT/ ATX (AT is Default Setting)                                           | AT/ ATX (AT is Default Setting)                                           | AT/ ATX (AT is Default Setting)                                           | AT/ ATX (AT is Default Setting)                                           | AT/ ATX (AT is Default Setting)                                           |
| Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) |
| Metal, Black                                                              | Metal, Black                                                              | Metal, Black                                                              | Metal, Black                                                              | Metal, Black                                                              |
| VESA 100 x 100                                                            | VESA 100 x 100                                                            | VESA 75 x 75                                                              | VESA 100 x 100                                                            | VESA 100 x 100                                                            |
| 388.8 x 258.8 x 49.6 mm                                                   | 533.3 x 329.3 x 56.6 mm                                                   | 255 x 169 x 45 mm                                                         | 388.8 x 258.8 x 39mm                                                      | 535.3 x 329.3 x 46mm                                                      |
| 3.59 kg                                                                   | 7.2 kg                                                                    | 1.27 kg                                                                   | 2.85 kg                                                                   | 7.27 kg                                                                   |
| Front IP65                                                                | Front IP65                                                                | Front IP65                                                                | Front IP65                                                                | Front IP65                                                                |
| 0°C ~ 40°C (32°F ~ 104°F)                                                 | 0°C ~ 40°C (32°F ~ 104°F)                                                 | 0°C ~ 40°C (32°F ~ 104°F)                                                 | 0°C ~ 40°C (32°F ~ 104°F)                                                 | 0°C ~ 40°C (32°F ~ 104°F)                                                 |
| 5% ~ 90% Relative Humidity, Non-condensing                                | 5% ~ 90% Relative Humidity, Non-condensing                                | 5% ~ 90% Relative Humidity, Non-condensing                                | 5% ~ 90% Relative Humidity, Non-condensing                                | 5% ~ 90% Relative Humidity, Non-condensing                                |
| CE, FCC Class B                                                           | CE, FCC Class B                                                           | CE, FCC Class B                                                           | CE, FCC Class B                                                           | CE, FCC Class B                                                           |
| Windows 10 IoT<br>Ubuntu 20.04                                            | Windows 10 IoT<br>Ubuntu 20.04                                            | Windows 10 IoT<br>Windows 11 IoT (w/ TPM)<br>Ubuntu 24.04                 | Windows 10 IoT<br>Windows 11 IoT (w/ TPM)<br>Ubuntu 24.04                 | Windows 10 IoT<br>Windows 11 IoT (w/ TPM)<br>Ubuntu 24.04                 |

汎用型 タッチパネル PC



| Model Number             | APC-15WR2                                                                             |
|--------------------------|---------------------------------------------------------------------------------------|
| LCD Size, Display Type   | 15.6", Full HD                                                                        |
| Resolution               | 1920 x 1080                                                                           |
| Pixel Pitch              | 0.17925 mm (H) x 0.17925 mm (V)                                                       |
| Luminance                | 400 cd/m <sup>2</sup>                                                                 |
| Contrast Ratio           | 800                                                                                   |
| Viewing Angle            | 85 (U), 85 (D), 85 (L), 85 (R)                                                        |
| Response Time            | 8 ms                                                                                  |
| Backlight                | LED                                                                                   |
| Touch Type               | Projective Capacitive                                                                 |
| Touch Light Transmission | ≥ 87%                                                                                 |
| Touch Controller         | USB Touch (ILITEK)                                                                    |
| SBC                      | ACP-RK3568A                                                                           |
| Processor                | Rockchip RK3568                                                                       |
| System Chipset           | Rockchip                                                                              |
| I/O Chipset              | N/A                                                                                   |
| System Memory            | 4GB LPDDR4 on board                                                                   |
| Expansion                | 1 x M.2 3042 B-Key for LTE or SSD                                                     |
| Storage                  | 64GB eMMC on board                                                                    |
| USB                      | 2 x USB 3.0                                                                           |
| COM Port                 | 1 x RS-232/485 (RJ45 Type)                                                            |
| Display Chipset          | Rockchip                                                                              |
| Audio                    | Everest ES8388                                                                        |
| Audio Interface          | 1 x Line-out, 2 x Speaker                                                             |
| Ethernet                 | 1 x Realtek RTL8211F Gigabit                                                          |
| Power Connector          | DC Jack +12 ~ 24V DC in/ Powered LAN                                                  |
| Power Type               | AT                                                                                    |
| Adapter                  | Optional<br>Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) |
| Construction             | Plastic PC + ABS w/ Antibacterial                                                     |
| Dimension                | 388.5 x 263 x 31.5 mm                                                                 |
| Weight                   | 2.2 kg                                                                                |
| Operating Temperature    | 0°C ~ 40°C (32°F ~ 104°F)                                                             |
| Storage Temperature      | -10°C ~ 60°C (-14°F ~ 140°F)                                                          |
| Certification            | CE, FCC Class B                                                                       |
| OS Information           | Android 11                                                                            |

| Model Number             | CCD-07WR2                                                                   | CCD-10WR2                      |
|--------------------------|-----------------------------------------------------------------------------|--------------------------------|
| LCD Size                 | 7"                                                                          | 10.1"                          |
| Display Type             | WXGA                                                                        | WXGA                           |
| Resolution               | 1024 x 600                                                                  | 1280 x 800                     |
| Pixel Pitch              | 0.1178 x 0.1178 mm                                                          | 0.1695 x 0.1695 mm             |
| Luminance                | 300 cd/m <sup>2</sup>                                                       | 350 cd/m <sup>2</sup>          |
| Contrast Ratio           | 500                                                                         | 800                            |
| Viewing Angle            | 85 (U), 85 (D), 85 (L), 85 (R)                                              | 85 (U), 85 (D), 85 (L), 85 (R) |
| Response Time            | 20ms                                                                        | 30 ms                          |
| Backlight                | LED                                                                         | LED                            |
| Touch Type               | PCAP                                                                        | PCAP                           |
| Touch Light Transmission | 75 %                                                                        | 86%                            |
| Processor                | Rockchip RK3568 Quad-Core ARM Cortex-A55, up to 2.0GHz                      |                                |
| I/O Chipset              | Rockchip SoC Integrated                                                     |                                |
| Memory                   | 2GB DDR4 on board                                                           |                                |
| Storage                  | 32GB eMMC on Board                                                          |                                |
| HDMI Resolution          | HDMI Up to 1080p @ 30Hz                                                     |                                |
| USB Port                 | 2 x USB 3.0 (Type A)                                                        |                                |
| Audio                    | 1 x Headphone Jack, 2 x Speaker                                             |                                |
| Other                    | 1 x 2MP Camera with Digital Microphone                                      |                                |
| Ethernet                 | 1 x 10/100/1000 RJ45 LAN                                                    |                                |
| Wi-Fi                    | Wi-Fi 802.11 a/b/g/n/ac                                                     |                                |
| Bluetooth                | BT 5.0                                                                      |                                |
| Power Connector          | DC Jack +12 ~ +24V                                                          |                                |
| Power Type               | AT                                                                          |                                |
| Adapter                  | Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 50W Adapter (19V @ 2.1A Adapter) |                                |
| Construction, Color      | Plastic, White                                                              |                                |
| Mounting                 | VESA 75 x 75                                                                |                                |
| Dimension                | 191 x 124 x 33 mm                                                           | 261 x 181 x 34 mm              |
| Weight                   | 580 g                                                                       | 800 g                          |
| Operating Temperature    | 0°C ~ 40°C (32°F ~ 104°F)                                                   |                                |
| Operating Humidity       | 5% ~ 90% Relative Humidity, Non-condensing                                  |                                |
| Certification            | CE, FCC Class B                                                             |                                |
| OS Information           | Android 11, Debain 11                                                       |                                |

汎用型 タッチパネル PC



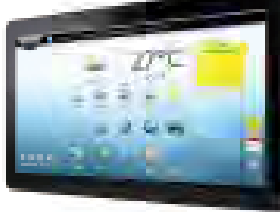
| Model Number             | VNS-10WR2                                                                                                 | VNS-10WAD                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| LCD Size                 | 10.1"                                                                                                     | 10.1"                                                                                 |
| Display Type             | WXGA                                                                                                      | WXGA                                                                                  |
| Resolution               | 1280 x 800                                                                                                | 1280 x 800                                                                            |
| Pixel Pitch              | 0.1695 (H) x 0.1695 (V) mm                                                                                | 0.1695 (H) x 0.1695 (V) mm                                                            |
| Luminance                | 350 cd/m <sup>2</sup>                                                                                     | 350 cd/m <sup>2</sup>                                                                 |
| Contrast Ratio           | 800                                                                                                       | 800                                                                                   |
| Viewing Angle            | 85 (U), 85 (D), 85 (L), 85 (R)                                                                            | 85 (U), 85 (D), 85 (L), 85 (R)                                                        |
| Response Time            | 30 ms                                                                                                     | 30 ms                                                                                 |
| Backlight                | LED                                                                                                       | LED                                                                                   |
| Touch Type               | PCAP                                                                                                      | PCAP                                                                                  |
| Touch Light Transmission | 86%                                                                                                       | 86%                                                                                   |
| Touch Controller         | USB Interface                                                                                             | SIS9255                                                                               |
| SBC                      | ACP-RK3568A                                                                                               | ACP-ADL                                                                               |
| Processor                | Rockchip RK3568                                                                                           | Intel® Alder Lake-N50 Processor                                                       |
| System Memory            | 4GB LPDDR4 on board                                                                                       | 8GB LPDDR5 on board                                                                   |
| Storage                  | 64GB eMMC on board<br>1 x M.2 3042 B-Key                                                                  | 64GB eMMC on board                                                                    |
| USB                      | 2 x USB 3.0 Type A                                                                                        | 2 x USB Type A 3.0                                                                    |
| COM Port                 | 1 x RS-232/485 (RJ45 Type)                                                                                | 1 x RS-232/422/485 (RJ45 Type)                                                        |
| Other                    | Touch Button for Power/ Brightness/ Volume<br>1 x 3.5mm Audio Jack, NFC, Cam 2.0 MP<br>LED Indicating Bar | 2.0MP Camera<br>Wi-Fi 802.11a/b/g/n/ac/ax, BT 5.2, NFC<br>LED Indicating Bar          |
| Display Chipset          | Rockchip                                                                                                  | Intel® UHD Graphics                                                                   |
| Display Resolution       | 1280 x 800                                                                                                | 1280 x 800                                                                            |
| Audio                    | Everest ES8388                                                                                            | ALC233/256                                                                            |
| Audio Interface          | 1 x Line-out, 1 x Mic-in, 2 x Speaker                                                                     | 1 x Line-out, 2 x Speaker                                                             |
| Ethernet                 | 1 x Realtek RTL8211F Gigabit                                                                              | 1x RTL8111I-CG                                                                        |
| Power Connector          | DC Jack +12 ~ 24V DC in/ Powered LAN                                                                      | DC Jack +12 ~ 24V DC in/ Powered LAN                                                  |
| Power Type               | AT                                                                                                        | AT                                                                                    |
| Adapter                  | Optional<br>Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter)                     | Optional<br>Input: 100 ~ 240 Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) |
| Construction             | White Plastic w/ Antibacterial                                                                            | White Plastic w/ Antibacterial                                                        |
| Dimension                | 270 x 193 x 28 mm                                                                                         | 270 x 193 x 28 mm                                                                     |
| Weight                   | 1.1 kg                                                                                                    | 1.1kg                                                                                 |
| Certification            | CE, FCC Class B                                                                                           | CE, FCC Class B                                                                       |
| OS Information           | Android 11, Debain 11                                                                                     | Windows 10/11, Ubuntu 22.04                                                           |

産業用 タッチパネル PC



| Model Number               | APC-2132                                                                    | APC-2138                                                                           |
|----------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| LCD Size                   | 21.5"                                                                       | 21.5"                                                                              |
| Display Type               | Full HD                                                                     | Full HD                                                                            |
| Resolution                 | 1920 x 1080                                                                 | 1920 x 1080                                                                        |
| Pixel Pitch                | 0.248mm(H) x 0.248mm (V)                                                    | 0.248mm(H) x 0.248mm (V)                                                           |
| Luminance                  | 250 cd/m²                                                                   | 250 cd/m²                                                                          |
| Contrast Ratio             | 1000                                                                        | 1000                                                                               |
| Viewing Angle              | 89 (U), 89 (D), 89 (L), 89 (R)                                              | 89 (U), 89 (D), 89 (L), 89 (R)                                                     |
| Response Time              | 22 ms                                                                       | 14 ms                                                                              |
| Backlight                  | LED                                                                         | LED                                                                                |
| Touch Type                 | Projective Capacitive                                                       | Projective Capacitive                                                              |
| Touch Light Transmission   | ≥ 85%                                                                       | ≥ 85%                                                                              |
| Touch Controller           | USB Touch (EETI)                                                            | USB Touch (ILITEK)                                                                 |
| SBC                        | ARC-SKLU                                                                    | EMX-TGLC                                                                           |
| Processor                  | Intel® Core™ i7/i5/i3/ Celeron Processor                                    | Intel® Core™ i5/i3/ Celeron Processor                                              |
| System Chipset             | Intel® Skylake U SoC Integrated                                             | Intel® Tigerlake U SoC Integrated                                                  |
| I/O Chipset                | EC ITE IT8528E                                                              | EC ITE IT8528E                                                                     |
| System Memory              | 1 x 260-Pin DDR4 2133MHz SO-DIMM up to 16GB                                 | 2 x 260-pin DDR4 3200MHz SO-DIMM up to 64GB                                        |
| Expansion                  | 1 x Full Size (Support Half Size, Auto Switch for mSATA, USB, PCIe Signal)  | 1 x M.2 Type B 3042/3052/2242/2260/ 2280<br>1 x M.2 Key E 2230 Support WiFi Module |
| Storage                    | 1 x 2.5" SATA3 SSD                                                          | 1 x 2.5" Drive Bay                                                                 |
| USB                        | 4 x USB 3.0, 2 x USB 2.0 (by IET Module)                                    | 3 x USB 3.1 Gen 2; 1 x USB 3.1 Gen 1                                               |
| COM Port                   | 1 x RS-232/422/485, 1 x RS-232                                              | 2 x RS-232/422/485                                                                 |
| Display Chipset            | Intel® Skylake SoC Integrated Graphics Supports Dual Display                | Intel® Tigerlake SoC Integrated Graphics Supports Dual Display                     |
| Audio                      | Realtek ALC888S Support 5.1-CH                                              | RealTek ALC897                                                                     |
| Audio Interface            | 1 x Line-out, 1 x Mic-in (by IET Module)                                    | N/A                                                                                |
| Ethernet                   | 1 x Intel® I210AT<br>1 x Intel® I219LM                                      | 1 x Intel® I219LM<br>1 x Intel® I225IT                                             |
| Power Connector            | Lockable DC Jack, +12V ~ +26V                                               | Lockable Mini Din 4-pin, +12V ~ +24V                                               |
| Power Type                 | AT/ ATX                                                                     | AT/ ATX                                                                            |
| Adapter                    | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 72W Adapter (19V @ 3.78A Adapter) | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 90W Adapter (24V @ 3.75A Adapter)        |
| Construction (Front, Rear) | Plastic-black                                                               | Plastic-black                                                                      |
| Dimension                  | 539.6 x 342.6 x 45.5 mm                                                     | 539.6 x 342.6 x 45.2 mm                                                            |
| Weight                     | 6.3 kg                                                                      | 6.3 kg                                                                             |
| Operating Temperature      | 0°C ~ 40°C (32°F ~ 104°F)                                                   | 0°C ~ 40°C (32°F ~ 104°F)                                                          |
| Storage Temperature        | -10°C ~ 60°C (14°F ~ 140°F)                                                 | -10°C ~ 60°C (14°F ~ 140°F)                                                        |
| Certification              | CE, FCC Class B                                                             | CE, FCC Class B                                                                    |
| OS Information             | Windows 7, Windows 8.1, Windows 10 IoT, Linux                               | Windows 10 IoT, Linux                                                              |

産業用 タッチパネル PC



| Model Number               | APC-2334                                                                    | APC-2340                                                                    |
|----------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| LCD Size                   | 23.8"                                                                       | 23.8"                                                                       |
| Display Type               | Full HD                                                                     | Full HD                                                                     |
| Resolution                 | 1920 x 1080                                                                 | 1920 x 1080                                                                 |
| Pixel Pitch                | 274.5 um (H) x 274.5 um (V)                                                 | 274.5 um (H) x 274.5 um (V)                                                 |
| Luminance                  | 250 cd/m²                                                                   | 250 cd/m²                                                                   |
| Contrast Ratio             | 3000                                                                        | 3000                                                                        |
| Viewing Angle              | 89 (U), 89 (D), 89 (L), 89 (R)                                              | 89 (U), 89 (D), 89 (L), 89 (R)                                              |
| Response Time              | 16 ms                                                                       | 16 ms                                                                       |
| Backlight                  | LED                                                                         | LED                                                                         |
| Touch Type                 | Projective Capacitive                                                       | Projective Capacitive                                                       |
| Touch Light Transmission   | 89%                                                                         | 89%                                                                         |
| Touch Controller           | USB Touch (EETI)                                                            | USB Touch (EETI)                                                            |
| SBC                        | EMX-KBLUP                                                                   | EMX-ADLP                                                                    |
| Processor                  | Intel® Core™ i7/i5/i3/ Celeron Processor                                    | 12th/13th Gen Intel® Core™ i7/5/3/Celeron Processor                         |
| System Chipset             | Intel® Kabylake U SoC Integrated                                            | Intel® Alder Lake SoC                                                       |
| I/O Chipset                | EC ITE IT8528E                                                              | EC ITE IT5782VG                                                             |
| System Memory              | 2 x 260-pin DDR4 2400MHz SO-DIMM Supports up to 32GB                        | 2 x 262-pin DDR5 4800 MHz SO-DIMM Supports Up to 64GB                       |
| Expansion                  | 1 x M.2 2230<br>1 x mPCIe with SATA or PCIe x1 mSATA                        | 1 x M.2 Key B 3042/3052 for 4G/5G<br>1 x M.2 Key E 2230 Support WiFi Module |
| Storage                    | 1 x 2.5" Drive Bay                                                          | 1 x 2.5" Drive Bay<br>1 x M.2 Key M 2280 (PCI-e x4) slot for storage        |
| USB                        | 4 x USB 3.0                                                                 | 2 x USB 3.2 Gen2, 2 x USB 3.0 Gen.2                                         |
| COM Port                   | N/A                                                                         | N/A                                                                         |
| Display Chipset            | Intel® Kabylake SoC Integrated Graphics Supports Dual Display               | Intel® UHD Graphics for 12th Gen Intel® Processors                          |
| Audio                      | Realtek ALC888S Support 5.1-CH                                              | Realtek ALC888S HD                                                          |
| Audio Interface            | 1 x Line-out, 1 x Mic-in                                                    | N/A                                                                         |
| Ethernet                   | 1 x Intel® I210AT<br>1 x Intel® I219LM                                      | 1 x Intel® i226LM<br>1 x Intel® i219LM                                      |
| Power Connector            | Lockable DC Jack, +12V ~ +24V                                               | Lockable DC Jack, +12V ~ +24V                                               |
| Power Type                 | AT/ ATX                                                                     | AT/ ATX                                                                     |
| Adapter                    | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 72W Adapter (19V @ 3.78A Adapter) | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 90W Adapter (24V @ 3.75A Adapter) |
| Construction (Front, Rear) | Plastic-black                                                               | Plastic-black                                                               |
| Dimension                  | 592 x 382 x 49.5 mm                                                         | 592 x 382 x 49.5 mm                                                         |
| Weight                     | 7.2 kg                                                                      | 6.2 kg                                                                      |
| Operating Temperature      | 0°C ~ 40°C (32°F ~ 104°F)                                                   | 0°C ~ 40°C (32°F ~ 104°F)                                                   |
| Storage Temperature        | -10°C ~ 60°C (14°F ~ 140°F)                                                 | -10°C ~ 60°C (14°F ~ 140°F)                                                 |
| Certification              | CE, FCC Class B                                                             | CE, FCC Class B, VCCI                                                       |
| OS Information             | Windows 10 IoT, Linux                                                       | Windows 10 IoT, Linux                                                       |

オープンフレーム タッチパネル PC



| Model Number           | OFP-07W33                                                                                                                            | OFP-15W33                                                                                                                                                                                         | OFP-21W33                                                                                                                                                                                         |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size               | 7", 16:10                                                                                                                            | 15.6", 16:9                                                                                                                                                                                       | 21.5", 16:9                                                                                                                                                                                       |
| Resolution             | 1280 x 800                                                                                                                           | 1920 x 1080                                                                                                                                                                                       | 1920 x 1080                                                                                                                                                                                       |
| Luminance              | 300 cd/m²                                                                                                                            | 220 cd/m²                                                                                                                                                                                         | 250 cd/m²                                                                                                                                                                                         |
| Viewing Angle          | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                       | 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                                    | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                                                    |
| Touch Type             | PCAP Multi-touch up to 10 Points                                                                                                     | PCAP Multi-touch up to 10 Points                                                                                                                                                                  | PCAP Multi-touch up to 10 Points                                                                                                                                                                  |
| Processor              | Onboard Intel® Celeron® N3350/J3455 SoC BGA Processor                                                                                | Onboard Intel® Celeron® N3350/J3455 SoC BGA Processor                                                                                                                                             | Onboard Intel® Celeron® N3350/J3455 SoC BGA Processor                                                                                                                                             |
| System Memory          | 4GB DDR3L Memory (Option up to 8GB by One SO-DIMM Socket)                                                                            | 4GB DDR3L Memory (Option up to 16GBby Two SO-DIMM Socket)                                                                                                                                         | 4GB DDR3L Memory (Option up to 16GBby Two SO-DIMM Socket)                                                                                                                                         |
| Wireless               | Option by Mini PCIe : 802.11 a/b/g/n/ac Wireless LAN and Bluetooth 4.0+                                                              | Option by Mini PCIe : 802.11 a/b/g/n/ac Wireless LAN and Bluetooth 4.0+                                                                                                                           | Option by Mini PCIe : 802.11 a/b/g/n/ac Wireless LAN and Bluetooth 4.0+                                                                                                                           |
| Storage                | 64GB mSATA by mPCIe Slot                                                                                                             | 64GB mSATA by mPCIe Slot (Option for SATA interface 2.5" HDD/ SSD)                                                                                                                                | 64GB mSATA by mPCIe Slot (Option for SATA Interface 2.5" HDD/ SSD)                                                                                                                                |
| External I/O Connector | 2 x Intel® I210AT<br>4 x USB 3.0<br>1 x HDMI<br>1 x RS-232<br>1 x DC Jack                                                            | 2 x Intel® I210AT, 4 x USB 3.0<br>1 x RS-232/422/485<br>1 x DP++, 1 x DP, 1 x HDMI<br>1 x Line-out, 1 x Mic-in<br>1 x DC Jack, 1 x Phoenix Connector for DC in<br>1 x Phoenix Connector for Reset | 2 x Intel® I210AT, 4 x USB 3.0<br>1 x RS-232/422/485<br>1 x DP++, 1 x DP, 1 x HDMI<br>1 x Line-out, 1 x Mic-in<br>1 x DC Jack, 1 x Phoenix Connector for DC in<br>1 x Phoenix Connector for Reset |
| Internal I/O Connector | 1 x RS-232/422/485<br>2 x USB2.0<br>1 x GPIO<br>1 x Full Size Mini-PCIe Support mSATA<br>1 x Half Size Mini-PCIe for Option WIFI/ BT | 4 x RS-232 (Optional)<br>4 x USB 2.0 (Optional)<br>1 x GPIO<br>1 x Full Size Mini PCI-e Support mSATA<br>1 x SIM Card Slot<br>1 x M.2 (2230) A-Key, Support WiFi Module                           | 4 x RS-232 (Optional)<br>4 x USB 2.0 (Optional)<br>1 x GPIO<br>1 x Full Size Mini PCI-e Support mSATA<br>1 x SIM Card Slot<br>1 x M.2 (2230) A-Key, Support WiFi Module                           |
| Power Requirement      | +12V ~ 26V DC in                                                                                                                     | +12V ~ 24V DC in                                                                                                                                                                                  | +12V ~ 24V DC in                                                                                                                                                                                  |
| Power Type             | AT/ ATX (Default is AT Mode)                                                                                                         | AT/ ATX (Default is AT Mode)                                                                                                                                                                      | AT/ ATX (Default is AT Mode)                                                                                                                                                                      |
| Operating Temperature  | 0°C ~ 45°C (32°F ~ 113°F)                                                                                                            | 0°C ~ 45°C (32°F ~ 113°F)                                                                                                                                                                         | 0°C ~ 45°C (32°F ~ 113°F)                                                                                                                                                                         |
| Storage Temperature    | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                          | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                       | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                       |
| Operating Humidity     | 0% ~ 90% Relative Humidity, Non-condensing                                                                                           | 0% ~ 90% Relative Humidity, Non-condensing                                                                                                                                                        | 0% ~ 90% Relative Humidity, Non-condensing                                                                                                                                                        |
| OS Information         | Windows 10 IoT, Linux, x86 Android 8.1                                                                                               | Windows 10 IoT, Linux, x86 Android 8.1                                                                                                                                                            | Windows 10 IoT, Linux, x86 Android 8.1                                                                                                                                                            |
| Dimension              | 183.1 x 115.8 x 48.6 mm                                                                                                              | 387 x 235 x 46 mm                                                                                                                                                                                 | 501.9 x 296.2 x 52.4 mm                                                                                                                                                                           |
| Weight                 | 700 g                                                                                                                                | 2.5 kg                                                                                                                                                                                            | 4.1 kg                                                                                                                                                                                            |
| Certification          | CE, FCC Class A                                                                                                                      | CE, FCC Class A                                                                                                                                                                                   | CE, FCC Class A                                                                                                                                                                                   |

オープンフレーム タッチパネル PC



| OFP-15W38                                                                                                                                                                                                                                                                | OFP-21W38                                                                                                                                                                                                                                                                | OFP-15W42                                                                                                                                                                                                                                                                        | OFP-21W42                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.6",16:9                                                                                                                                                                                                                                                               | 21.5". 16:9                                                                                                                                                                                                                                                              | 15.6",16:9                                                                                                                                                                                                                                                                       | 21.5". 16:9                                                                                                                                                                                                                                                                      |
| 1920 x 1080                                                                                                                                                                                                                                                              | 1920 x 1080                                                                                                                                                                                                                                                              | 1920 x 1080                                                                                                                                                                                                                                                                      | 1920 x 1080                                                                                                                                                                                                                                                                      |
| 220 cd/m²                                                                                                                                                                                                                                                                | 250 cd/m²                                                                                                                                                                                                                                                                | 220 cd/m²                                                                                                                                                                                                                                                                        | 250 cd/m²                                                                                                                                                                                                                                                                        |
| 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                                                                                                           | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                                                                                                                           | 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                                                                                                                   | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                                                                                                                                   |
| PCAP Multi-touch up to 10 Points                                                                                                                                                                                                                                         | PCAP Multi-touch up to 10 Points                                                                                                                                                                                                                                         | PCAP Multi-touch up to 10 Points                                                                                                                                                                                                                                                 | PCAP Multi-touch up to 10 Points                                                                                                                                                                                                                                                 |
| Onboard Tiger Lake U 11th Intel® Core™ SoC i7/i5/i3 BGA Processor or Celeron® BGA Processor                                                                                                                                                                              | Onboard Tiger Lake U 11th Intel® Core™ SoC i7/i5/i3 BGA Processor or Celeron® BGA Processor                                                                                                                                                                              | Socketed FCLGA1700 Intel® 12th/13th Gen Core™ i7/i5/i3 Processor                                                                                                                                                                                                                 | Socketed FCLGA1700 Intel® 12th/13th Gen Core™ i7/i5/i3 Processor                                                                                                                                                                                                                 |
| 4GB DDR4 Memory (Option up to 64GB)                                                                                                                                                                                                                                      | 4GB DDR4 Memory (Option up to 64GB)                                                                                                                                                                                                                                      | 1 x 262-pin DDR5 4800MHz SO-DIMM up to 32GB                                                                                                                                                                                                                                      | 1 x 262-pin DDR5 4800MHz SO-DIMM up to 32GB                                                                                                                                                                                                                                      |
| Option by M.2 WIFI/ BT Module                                                                                                                                                                                                                                            | Option by M.2 WIFI/ BT Module                                                                                                                                                                                                                                            | Option by M.2 WIFI/ BT Module                                                                                                                                                                                                                                                    | Option by M.2 WIFI/ BT Module                                                                                                                                                                                                                                                    |
| Default with 64GB M.2 (Option for SATA Inter-face 2.5" HDD/ SSD)                                                                                                                                                                                                         | Default with 64GB M.2 (Option for SATA Inter-face 2.5" HDD/ SSD)                                                                                                                                                                                                         | Default with 64GB M.2 (Option for SATA Inter-face 2.5" HDD/ SSD)                                                                                                                                                                                                                 | Default with 64GB M.2 (Option for SATA Inter-face 2.5" HDD/ SSD)                                                                                                                                                                                                                 |
| 3 x USB 3.1 Gen2, 1 x USB 3.1 Gen1<br>1 x RS-232 (Default)/422/485<br>1 x Intel® I225IT 2.5 GbE<br>1 x Intel® I219LM GbE PHY<br>2 x DP++<br>1 x Line-out, 1 x Mic-in<br>1 x Mini Din 4-pin DC Jack<br>1 x Phoenix Connector for DC in<br>1 x Phoenix Connector for Reset | 3 x USB 3.1 Gen2, 1 x USB 3.1 Gen1<br>1 x RS-232 (Default)/422/485<br>1 x Intel® I225IT 2.5 GbE<br>1 x Intel® I219LM GbE PHY<br>2 x DP++<br>1 x Line-out, 1 x Mic-in<br>1 x Mini Din 4-pin DC Jack<br>1 x Phoenix Connector for DC in<br>1 x Phoenix Connector for Reset | 4 x USB 3.2 Gen2<br>1 x RS-232 (Default)/422/485<br>2 x Intel® I226LM 2.5 GbE<br>4 x DP++<br>1 x Line-out, 1 x Mic-in<br>1 x Mini Din 4-pin DC Jack<br>1 x Phoenix Connector for DC in<br>1 x Phoenix Connector for Reset                                                        | 4 x USB 3.2 Gen2<br>1 x RS-232 (Default)/422/485<br>2 x Intel® I226LM 2.5 GbE<br>4 x DP++<br>1 x Line-out, 1 x Mic-in<br>1 x Mini Din 4-pin DC Jack<br>1 x Phoenix Connector for DC in<br>1 x Phoenix Connector for Reset                                                        |
| 1 x RS-232/422/485 (Optional)<br>3 x RS-232 (Optional)<br>4 x USB 2.0 (optional)<br>1 x GPIO<br>1 x SIM Card Slot<br>1 x M.2 (2230) E-Key, Support WiFi Module/ BT<br>1 x M.2 (2242) B-Key, Support Storage/ 5G Module                                                   | 1 x RS-232/422/485 (Optional)<br>3 x RS-232 (Optional)<br>4 x USB 2.0 (Optional)<br>1 x GPIO<br>1 x SIM Card Slot<br>1 x M.2 (2230) E-Key, Support WiFi Module/ BT<br>1 x M.2 (2242) B-Key, Support Storage/ 5G Module                                                   | 1 x RS-232/422/485 (Optional)<br>3 x RS-232 (Optional)<br>4 x USB 2.0 (Optional)<br>1 x GPIO<br>1 x SIM Card Slot<br>1 x M.2 (2230) E-Key, Support WiFi Module/ BT<br>1 x M.2 (2242) B-Key, Support Storage/ 5G Module<br>1 x M.2 Key-M 2280 (PCI-ex4) Slot for Storage NVMe SSD | 1 x RS-232/422/485 (Optional)<br>3 x RS-232 (Optional)<br>4 x USB 2.0 (Optional)<br>1 x GPIO<br>1 x SIM Card Slot<br>1 x M.2 (2230) E-Key, Support WiFi Module/ BT<br>1 x M.2 (2242) B-Key, Support Storage/ 5G Module<br>1 x M.2 Key-M 2280 (PCI-ex4) Slot for Storage NVMe SSD |
| DC in +12~24V                                                                                                                                                                                                                                                            | DC in +12~24V                                                                                                                                                                                                                                                            | DC in +12~24V                                                                                                                                                                                                                                                                    | DC in +12 ~ 24V                                                                                                                                                                                                                                                                  |
| AT/ ATX (Default is AT Mode)                                                                                                                                                                                                                                             | AT/ ATX (Default is AT Mode)                                                                                                                                                                                                                                             | AT/ ATX (Default is AT Mode)                                                                                                                                                                                                                                                     | AT/ ATX (Default is AT Mode)                                                                                                                                                                                                                                                     |
| 0°C ~ 45°C (32°F ~ 113°F)                                                                                                                                                                                                                                                | 0°C ~ 45°C (32°F ~ 113°F)                                                                                                                                                                                                                                                | 0°C ~ 45°C (32°F ~ 113°F)                                                                                                                                                                                                                                                        | 0°C ~ 45°C (32°F ~ 113°F)                                                                                                                                                                                                                                                        |
| -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                              | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                              | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                      | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                      |
| 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                                             | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                                             | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                                                     | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                                                     |
| Windows 10 IoT, Windows 11 IoT, Linux                                                                                                                                                                                                                                    | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                                                                                                                                                    | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                                                                                                                                                            | Windows 10 IoT, Windows 11 IoT, Linux                                                                                                                                                                                                                                            |
| 387 x 235 x 48 mm                                                                                                                                                                                                                                                        | 501.9 x 296.2 x 55 mm                                                                                                                                                                                                                                                    | 387 x 235 x 48 mm                                                                                                                                                                                                                                                                | 501.9 x 296.2 x 55 mm                                                                                                                                                                                                                                                            |
| 2.9 kg                                                                                                                                                                                                                                                                   | 5.2 kg                                                                                                                                                                                                                                                                   | 2.9 kg                                                                                                                                                                                                                                                                           | 5.2 kg                                                                                                                                                                                                                                                                           |
| CE, FCC Class A                                                                                                                                                                                                                                                          | CE, FCC Class A                                                                                                                                                                                                                                                          | CE, FCC Class A                                                                                                                                                                                                                                                                  | CE, FCC Class A                                                                                                                                                                                                                                                                  |



オープンフレーム タッチパネル PC



| Model Number           | OFT-07WR2                                                                                                                                                                                                                                              | OFT-10WR2                                                                                                                                                                                                                                              | OFT-21WR2                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size               | 7"                                                                                                                                                                                                                                                     | 10.1"                                                                                                                                                                                                                                                  | 21.5"                                                                                                                                                                                                                                                  |
| Resolution             | 600 x 1024                                                                                                                                                                                                                                             | 800 x 1280                                                                                                                                                                                                                                             | 1920 x 1080                                                                                                                                                                                                                                            |
| Luminance              | 350 cd/m <sup>2</sup>                                                                                                                                                                                                                                  | 350 cd/m <sup>2</sup>                                                                                                                                                                                                                                  | 250 cd/m <sup>2</sup>                                                                                                                                                                                                                                  |
| Viewing Angle          | 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                                                                                         | 80 (U), 80 (D), 80 (L), 80 (R)                                                                                                                                                                                                                         | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                                                                                                         |
| Touch Type             | PCAP                                                                                                                                                                                                                                                   | PCAP                                                                                                                                                                                                                                                   | PCAP                                                                                                                                                                                                                                                   |
| Processor              | Rockchip RK3568                                                                                                                                                                                                                                        | Rockchip RK3568                                                                                                                                                                                                                                        | Rockchip RK3568                                                                                                                                                                                                                                        |
| System Memory          | 2GB DDR4 on board                                                                                                                                                                                                                                      | 2GB DDR4 on board                                                                                                                                                                                                                                      | 2GB DDR4 on board                                                                                                                                                                                                                                      |
| Wireless               | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                                                                                                | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                                                                                                | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                                                                                                |
| Storage                | 32GB eMMC on board                                                                                                                                                                                                                                     | 32GB eMMC on board                                                                                                                                                                                                                                     | 32GB eMMC on board                                                                                                                                                                                                                                     |
| External I/O Connector | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x DC Jack<br>1 x Headphone Jack<br>1 x HDMI 1.4 Out<br>1 x Reset<br>2 x USB 3.0 Type A                                                                                                                           | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x DC Jack<br>1 x Headphone Jack<br>1 x HDMI 1.4 Out<br>1 x Reset<br>2 x USB 3.0 Type A                                                                                                                           | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x DC Jack<br>1 x Headphone Jack<br>1 x HDMI 1.4 Out<br>1 x Reset<br>2 x USB 3.0 Type A                                                                                                                           |
| Internal I/O Connector | 1 x A-MIC<br>1 x DC Input<br>1 x 16-bit GPIO<br>1 x I <sup>2</sup> C Sensor Interface<br>1 x M.2 3042 B-Key<br>2 x RS-232<br>1 x RS-485<br>1 x RTC Battery<br>1 x Speaker<br>1 x Touch Button<br>1 x USB CAM_DMIC Interface<br>1 x USB Touch Interface | 1 x A-MIC<br>1 x DC Input<br>1 x 16-bit GPIO<br>1 x I <sup>2</sup> C Sensor Interface<br>1 x M.2 3042 B-Key<br>2 x RS-232<br>1 x RS-485<br>1 x RTC Battery<br>1 x Speaker<br>1 x Touch Button<br>1 x USB CAM_DMIC Interface<br>1 x USB Touch Interface | 1 x A-MIC<br>1 x DC Input<br>1 x 16-bit GPIO<br>1 x I <sup>2</sup> C Sensor Interface<br>1 x M.2 3042 B-Key<br>2 x RS-232<br>1 x RS-485<br>1 x RTC Battery<br>1 x Speaker<br>1 x Touch Button<br>1 x USB CAM_DMIC Interface<br>1 x USB Touch Interface |
| Power Requirement      | DC 12V ~ 24V                                                                                                                                                                                                                                           | DC 12V ~ 24V                                                                                                                                                                                                                                           | DC 12V ~ 24V                                                                                                                                                                                                                                           |
| Power Type             | AT                                                                                                                                                                                                                                                     | AT                                                                                                                                                                                                                                                     | AT                                                                                                                                                                                                                                                     |
| Operating Temp.        | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                                                                              | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                                                                              | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                                                                              |
| Storage Temp.          | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                            | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                            | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                            |
| Operating Humidity     | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                           | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                           | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                           |
| OS Information         | Android 11, Debian 11                                                                                                                                                                                                                                  | Android 11, Debian 11                                                                                                                                                                                                                                  | Android 11, Debian 11                                                                                                                                                                                                                                  |
| Dimension              | 190 x 130 x 31.8 mm                                                                                                                                                                                                                                    | 254 x 178 x 33.8 mm                                                                                                                                                                                                                                    | 515 x 322 x 44.9 mm                                                                                                                                                                                                                                    |
| Weight                 | 0.5 kg                                                                                                                                                                                                                                                 | 0.7 kg                                                                                                                                                                                                                                                 | 3.6 kg                                                                                                                                                                                                                                                 |
| Certification          | CE, FCC Class A                                                                                                                                                                                                                                        | CE, FCC Class A                                                                                                                                                                                                                                        | CE, FCC Class A                                                                                                                                                                                                                                        |

オープンフレーム タッチパネル PC



| Model Number           | OFT-10W04                                                                                                                                                                      | OFT-15W04                                                                                                                                                                      | OFT-21W04                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size               | 10.1"                                                                                                                                                                          | 15.6"                                                                                                                                                                          | 21.5"                                                                                                                                                                          |
| Resolution             | 800 x 1280                                                                                                                                                                     | 1920 x 1080                                                                                                                                                                    | 1920 x 1080                                                                                                                                                                    |
| Luminance              | 350 cd/m <sup>2</sup>                                                                                                                                                          | 220 cd/m <sup>2</sup>                                                                                                                                                          | 250 cd/m <sup>2</sup>                                                                                                                                                          |
| Viewing Angle          | 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                 | 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                 | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                                 |
| Touch Type             | PCAP                                                                                                                                                                           | PCAP                                                                                                                                                                           | PCAP                                                                                                                                                                           |
| Processor              | Intel® Celeron® J3455 2M Cache 1.50 GHz                                                                                                                                        | Intel® Celeron® J3455 2M Cache 1.50 GHz                                                                                                                                        | Intel® Celeron® J3455 2M Cache 1.50 GHz                                                                                                                                        |
| System Memory          | 1 x 4GB 204 pin SO-DIMM DDR3L                                                                                                                                                  | 1 x 4GB 204 pin SO-DIMM DDR3L                                                                                                                                                  | 1 x 4GB 204 pin SO-DIMM DDR3L                                                                                                                                                  |
| Wireless               | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                        | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                        | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                        |
| Storage                | 32GB eMMC/ M.2 3042 SSD                                                                                                                                                        | 32GB eMMC/ M.2 3042 SSD                                                                                                                                                        | 32GB eMMC/ M.2 3042 SSD                                                                                                                                                        |
| External I/O Connector | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x DC Jack<br>1 x Headphone Jack<br>1 x HDMI 1.4 Out<br>1 x Reset<br>2 x USB 3.0 Type A                                                   | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x DC Jack<br>1 x Headphone Jack<br>1 x HDMI 1.4 Out<br>1 x Reset<br>2 x USB 3.0 Type A                                                   | 1 x 10/100/1000 RJ45 Powered LAN<br>1 x DC Jack<br>1 x Headphone Jack<br>1 x HDMI 1.4 Out<br>1 x Reset<br>2 x USB 3.0 Type A                                                   |
| Internal I/O Connector | 1 x A-MIC<br>1 x DC Input<br>1 x DIO<br>1 x M.2 3042 B-Key<br>1 x Micro USB<br>1 x MIPI DSI<br>1 x RS-232/422/485 Debug<br>1 x SD Card Slot<br>1 x Speaker<br>1 x Touch Button | 1 x A-MIC<br>1 x DC Input<br>1 x DIO<br>1 x M.2 3042 B-Key<br>1 x Micro USB<br>1 x MIPI DSI<br>1 x RS-232/422/485 Debug<br>1 x SD Card Slot<br>1 x Speaker<br>1 x Touch Button | 1 x A-MIC<br>1 x DC Input<br>1 x DIO<br>1 x M.2 3042 B-Key<br>1 x Micro USB<br>1 x MIPI DSI<br>1 x RS-232/422/485 Debug<br>1 x SD Card Slot<br>1 x Speaker<br>1 x Touch Button |
| Power Requirement      | DC 12V~24V                                                                                                                                                                     | DC 12V~24V                                                                                                                                                                     | DC 12V~24V                                                                                                                                                                     |
| Power Type             | AT                                                                                                                                                                             | AT                                                                                                                                                                             | AT                                                                                                                                                                             |
| Operating Temp.        | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                      | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                      | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                      |
| Storage Temp.          | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                    | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                    | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                    |
| Operating Humidity     | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                   | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                   | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                   |
| OS Information         | Windows 10 IoT, Ubuntu 20.04                                                                                                                                                   | Windows 10 IoT, Ubuntu 20.04                                                                                                                                                   | Windows 10 IoT, Ubuntu 20.04                                                                                                                                                   |
| Dimension              | 254 x 178 x 41.6 mm                                                                                                                                                            | 384 x 254 x 47.5 mm                                                                                                                                                            | 515 x 322 x 53.7 mm                                                                                                                                                            |
| Weight                 | 1.28 kg                                                                                                                                                                        | 2.2 kg                                                                                                                                                                         | 4.3 kg                                                                                                                                                                         |
| Certification          | CE, FCC Class A                                                                                                                                                                | CE, FCC Class A                                                                                                                                                                | CE, FCC Class A                                                                                                                                                                |

オープンフレーム タッチパネル PC

» 汎用型



| Model Number           | OFT-07WR3                                                                                                                                                                                                          | OFT-10WR3                                                                                                                                                                                                          | OFT-15WR3                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size               | 7"                                                                                                                                                                                                                 | 10.1"                                                                                                                                                                                                              | 15"                                                                                                                                                                                                                |
| Resolution             | 800 x 400                                                                                                                                                                                                          | 800 x 1280                                                                                                                                                                                                         | 1024 x 768                                                                                                                                                                                                         |
| Luminance              | 500 cd/m²                                                                                                                                                                                                          | 350 cd/m²                                                                                                                                                                                                          | 500 cd/m²                                                                                                                                                                                                          |
| Viewing Angle          | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                                                                     | 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                                                     | 88 (U), 88 (D), 88 (L), 88 (R)                                                                                                                                                                                     |
| Touch Type             | PCAP Multi-touch up to 10 Points                                                                                                                                                                                   | PCAP Multi-touch up to 10 Points                                                                                                                                                                                   | PCAP Multi-touch up to 10 Points                                                                                                                                                                                   |
| Processor              | Rockchip RK3568J Quad-core Cortex-A55 1.4/ 1.8GHz                                                                                                                                                                  | Rockchip RK3568J Quad-core Cortex-A55 1.4/ 1.8GHz                                                                                                                                                                  | Rockchip RK3568J Quad-core Cortex-A55 1.4/ 1.8GHz                                                                                                                                                                  |
| System Memory          | 4GB LPDDR4 on board                                                                                                                                                                                                | 4GB LPDDR4 on board                                                                                                                                                                                                | 4GB LPDDR4 on board                                                                                                                                                                                                |
| Wireless               | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                                                            | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                                                            | Wi-Fi 802.11 a/b/g/n/ac                                                                                                                                                                                            |
| Storage                | 64GB eMMC on board                                                                                                                                                                                                 | 64GB eMMC on board                                                                                                                                                                                                 | 64GB eMMC on board                                                                                                                                                                                                 |
| External I/O Connector | 2 x 10/100/1000 RJ45 LAN<br>1 x DC Jack<br>1 x HDMI 2.0 Out<br>1 x Reset<br>1 x RS-232/422/485 DB9<br>2 x USB 3.0 Type A                                                                                           | 2 x 10/100/1000 RJ45 LAN<br>1 x DC Jack<br>1 x HDMI 2.0 Out<br>1 x Reset<br>1 x RS-232/422/485 DB9<br>2 x USB 3.0 Type A                                                                                           | 2 x 10/100/1000 RJ45 LAN<br>1 x DC Jack<br>1 x HDMI 2.0 Out<br>1 x Reset<br>1 x RS-232/422/485 DB9<br>2 x USB 3.0 Type A                                                                                           |
| Internal I/O Connector | 1 x Backlight<br>2 x CAN<br>1 x DC Input<br>1 x 16-bit GPIO<br>1 x I²C<br>1 x M.2 3042 B-Key<br>2 x RS-232<br>1 x RS-485<br>1 x RTC Battery<br>1 x SIM Card Slot<br>1 x Speaker<br>1 x Touch Button<br>2 x USB 2.0 | 1 x Backlight<br>2 x CAN<br>1 x DC Input<br>1 x 16-bit GPIO<br>1 x I²C<br>1 x M.2 3042 B-Key<br>2 x RS-232<br>1 x RS-485<br>1 x RTC Battery<br>1 x SIM Card Slot<br>1 x Speaker<br>1 x Touch Button<br>2 x USB 2.0 | 1 x Backlight<br>2 x CAN<br>1 x DC Input<br>1 x 16-bit GPIO<br>1 x I²C<br>1 x M.2 3042 B-Key<br>2 x RS-232<br>1 x RS-485<br>1 x RTC Battery<br>1 x SIM Card Slot<br>1 x Speaker<br>1 x Touch Button<br>2 x USB 2.0 |
| Power Requirement      | DC 12V ~ 24V                                                                                                                                                                                                       | DC 12V ~ 24V                                                                                                                                                                                                       | DC 12V ~ 24V                                                                                                                                                                                                       |
| Power Type             | AT                                                                                                                                                                                                                 | AT                                                                                                                                                                                                                 | AT                                                                                                                                                                                                                 |
| Operating Temperature  | -30°C ~ 60°C (-22°F ~ 140°F)                                                                                                                                                                                       | -30°C ~ 60°C (-22°F ~ 140°F)                                                                                                                                                                                       | -30°C ~ 60°C (-22°F ~ 140°F)                                                                                                                                                                                       |
| Storage Temperature    | -30°C ~ 60°C (-22°F ~ 140°F)                                                                                                                                                                                       | -30°C ~ 60°C (-22°F ~ 140°F)                                                                                                                                                                                       | -30°C ~ 60°C (-22°F ~ 140°F)                                                                                                                                                                                       |
| Operating Humidity     | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                       | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                       | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                       |
| OS Information         | Android 13, Debain 11                                                                                                                                                                                              | Android 13, Debain 11                                                                                                                                                                                              | Android 13, Debain 11                                                                                                                                                                                              |
| Dimension              | 170 x 110 x 6 mm                                                                                                                                                                                                   | 143 x 228.6 x 2.5 mm                                                                                                                                                                                               | 326.5 x 253.5 x 9.1 mm                                                                                                                                                                                             |
| Weight                 | 0.69 kg                                                                                                                                                                                                            | 1.05 kg                                                                                                                                                                                                            | 2.3 kg                                                                                                                                                                                                             |
| Certification          | CE, FCC Class A                                                                                                                                                                                                    | CE, FCC Class A                                                                                                                                                                                                    | CE, FCC Class A                                                                                                                                                                                                    |

オープンフレーム タッチパネル PC

» 汎用型



| OFT-07WAD                                                                                                                                                                                                          | OFT-10WAD                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7"                                                                                                                                                                                                                 | 10.1"                                                                                                                                                                                                              |
| 800 x 1280                                                                                                                                                                                                         | 800 x 1280                                                                                                                                                                                                         |
| 350 cd/m²                                                                                                                                                                                                          | 350 cd/m²                                                                                                                                                                                                          |
| 1750 (H), 1750 (V)                                                                                                                                                                                                 | 1750 (H), 1750 (V)                                                                                                                                                                                                 |
| PCAP Multi-touch up to 10 Points                                                                                                                                                                                   | PCAP Multi-touch up to 10 Points                                                                                                                                                                                   |
| Intel® IOTG Alder Lake-N Processor 6W N50                                                                                                                                                                          | Intel® I OTG Alder Lake-N Processor 6W N50                                                                                                                                                                         |
| 8GB LPDDR5 on board<br>16GB (Optional)                                                                                                                                                                             | 8GB LPDDR5 on board<br>16GB (Optional)                                                                                                                                                                             |
| Wi-Fi 802.11 a/b/g/n/ac/ax                                                                                                                                                                                         | Wi-Fi 802.11 a/b/g/n/ac/ax                                                                                                                                                                                         |
| 64GB eMMC<br>32/ 128GB (Optional)                                                                                                                                                                                  | 64GB eMMC<br>32/ 128GB (Optional)                                                                                                                                                                                  |
| 2 x 10/100/1000 RJ45 LAN<br>1 x Audio Jack TRS<br>1 x DC Jack<br>1 x HDMI 2.0 Out<br>1 x Reset<br>2 x USB 3.0 Type A                                                                                               | 2 x 10/100/1000 RJ45 LAN<br>1 x Audio Jack TRS<br>1 x DC Jack<br>1 x HDMI 2.0 Out<br>1 x Reset<br>2 x USB 3.0 Type A                                                                                               |
| 1 x A-MIC<br>2 x GPIO<br>1 x I²C<br>1 x M.2 2230 E-Key<br>1 x Micro SD slot<br>1 x MIPI DSI<br>1 x RS-232<br>1 x RS-485<br>1 x RTC Battery<br>1 x Speaker<br>2 x Touch Button<br>1 x USB 2.0<br>2 x USB 2.0 + DMIC | 1 x A-MIC<br>2 x GPIO<br>1 x I²C<br>1 x M.2 2230 E-Key<br>1 x Micro SD Slot<br>1 x MIPI DSI<br>1 x RS-232<br>1 x RS-485<br>1 x RTC Battery<br>1 x Speaker<br>2 x Touch Button<br>1 x USB 2.0<br>2 x USB 2.0 + DMIC |
| DC 12V ~ 24V                                                                                                                                                                                                       | DC 12V ~ 24V                                                                                                                                                                                                       |
| AT                                                                                                                                                                                                                 | AT                                                                                                                                                                                                                 |
| 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                                          | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                                          |
| -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                        | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                        |
| 40°C @ 95% Relative Humidity,<br>Non-condensing                                                                                                                                                                    | 40°C @ 95% Relative Humidity,<br>Non-condensing                                                                                                                                                                    |
| Windows 10 IoT, Windows 11 IoT (w/ TPM)<br>Linux Ubuntu 24.04                                                                                                                                                      | Windows 10 IoT, Windows 11 IoT (w/ TPM)<br>Linux Ubuntu 24.04                                                                                                                                                      |
| 183.1 x 115.9 x 24.3 mm                                                                                                                                                                                            | 252 x 166 x 38 mm                                                                                                                                                                                                  |
| 0.4 kg                                                                                                                                                                                                             | 0.64 kg                                                                                                                                                                                                            |
| CE, FCC Class A                                                                                                                                                                                                    | CE, FCC Class A                                                                                                                                                                                                    |

» フィットネス向け



| OFR-15WMX                                                                                                                                                                                                                                                                                                                                                                                               | OFR-21WMX                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.6"                                                                                                                                                                                                                                                                                                                                                                                                   | 21.5"                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1920 x 1080                                                                                                                                                                                                                                                                                                                                                                                             | 1920 x 1080                                                                                                                                                                                                                                                                                                                                                                                             |
| 350 cd/m²                                                                                                                                                                                                                                                                                                                                                                                               | 500 cd/m²                                                                                                                                                                                                                                                                                                                                                                                               |
| 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                                                                                                                                                                                                                                          | 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                                                                                                                                                                                                                                                                                          |
| PCAP Multi-touch up to 10 Points                                                                                                                                                                                                                                                                                                                                                                        | PCAP Multi-touch up to 10 Points                                                                                                                                                                                                                                                                                                                                                                        |
| Onboard MT8365 CPU, Quad-core ARM<br>2.0GHz Cortex-A53 MP Core, ARM Mali G52 GPU                                                                                                                                                                                                                                                                                                                        | Onboard MT8365 CPU, Quad-core ARM<br>2.0GHz Cortex-A53 MP Core, ARM Mali G52 GPU                                                                                                                                                                                                                                                                                                                        |
| 4GB DDR3L RAM on board                                                                                                                                                                                                                                                                                                                                                                                  | 4GB DDR3L RAM on board                                                                                                                                                                                                                                                                                                                                                                                  |
| Option by M.2 Wi-Fi/BT Module                                                                                                                                                                                                                                                                                                                                                                           | Option by M.2 Wi-Fi/BT Module                                                                                                                                                                                                                                                                                                                                                                           |
| 32G eMMC on board                                                                                                                                                                                                                                                                                                                                                                                       | 32G eMMC on board                                                                                                                                                                                                                                                                                                                                                                                       |
| 1 x Audio Amplifier<br>1 x DC Jack/ 12V/ 60W<br>1 x LAN (10M/100M) RJ45<br>1 x HDMI (AUX-088 HDMI 2.0 Connector<br>3 in/ 1 out)<br>1 x Line-out                                                                                                                                                                                                                                                         | 1 x Audio Amplifier<br>1 x DC Jack/ 12V/ 60W<br>1 x LAN (10M/100M) RJ45<br>1 x HDMI (AUX-088 HDMI 2.0 Connector<br>3 in/ 1 out)<br>1 x Line-out                                                                                                                                                                                                                                                         |
| 1 x RS232<br>1 x RS232/RS485<br>4 x USB 2.0<br>1 x Support 5W/ 8ohm Stereo Speaker<br>Support AUX-088 board for Peripheral<br>Connection for Open Frame Fitness<br>(ACP-I350 & AUX-088 Connected to JMCU1<br>(UART Signal)<br>1 x Support TV Tuner/ 1 x HR Board/ 1 x NFC/<br>1 x Sensor Modules/ 1 x Fan<br>1 x Support Motor & Resistance Controller<br>1 x M.2 Wi-Fi/ Bluetooth Module (By Optional) | 1 x RS232<br>1 x RS232/RS485<br>4 x USB 2.0<br>1 x Support 5W/ 8ohm Stereo Speaker<br>Support AUX-088 board for Peripheral<br>Connection for Open Frame Fitness<br>(ACP-I350 & AUX-088 Connected to JMCU1<br>(UART Signal)<br>1 x Support TV Tuner/ 1 x HR Board/ 1 x NFC/<br>1 x Sensor Modules/ 1 x Fan<br>1 x Support Motor & Resistance Controller<br>1 x M.2 Wi-Fi/ Bluetooth Module (By Optional) |
| DC 12V                                                                                                                                                                                                                                                                                                                                                                                                  | DC 12V                                                                                                                                                                                                                                                                                                                                                                                                  |
| AT                                                                                                                                                                                                                                                                                                                                                                                                      | AT                                                                                                                                                                                                                                                                                                                                                                                                      |
| 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                                                                                                                                                                                                                               | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                                                                                                                                                                                                                               |
| -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                                                                                                                                             | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                                                                                                                                             |
| 40°C @ 95% Relative Humidity,<br>Non-condensing                                                                                                                                                                                                                                                                                                                                                         | 40°C @ 95% Relative Humidity,<br>Non-condensing                                                                                                                                                                                                                                                                                                                                                         |
| Android 10 (Develop)<br>Yocto Supports                                                                                                                                                                                                                                                                                                                                                                  | Android 10 (Develop)<br>Yocto Supports                                                                                                                                                                                                                                                                                                                                                                  |
| 408.2 x 241.5 x 18 mm                                                                                                                                                                                                                                                                                                                                                                                   | 515 x 322.2 x 26 mm                                                                                                                                                                                                                                                                                                                                                                                     |
| 2.3 kg                                                                                                                                                                                                                                                                                                                                                                                                  | 5.1 kg                                                                                                                                                                                                                                                                                                                                                                                                  |
| CE, FCC Class A                                                                                                                                                                                                                                                                                                                                                                                         | CE, FCC Class A                                                                                                                                                                                                                                                                                                                                                                                         |

産業用 タッチモニター

» オープンフレームタッチモニター



| Model Number               | OFM-15W00                                                                                                                            | OFM-21W00                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size                   | 15.6", 16:9                                                                                                                          | 21.5", 16:9                                                                                                                          |
| Display Type               | Full HD                                                                                                                              | Full HD                                                                                                                              |
| Resolution                 | 1920 x 1080                                                                                                                          | 1920 x 1080                                                                                                                          |
| Pixel Pitch                | 0.17925 (H) x 0.17925 (V)                                                                                                            | 0.24795 (H) x 0.24795 (V)                                                                                                            |
| Luminance                  | 220 cd/m²                                                                                                                            | 250 cd/m²                                                                                                                            |
| Contrast Ratio             | 800                                                                                                                                  | 2000                                                                                                                                 |
| Viewing Angle              | 85 (U), 85 (D), 85 (L), 85 (R)                                                                                                       | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                       |
| Response Time              | 30 ms                                                                                                                                | 35 ms                                                                                                                                |
| Backlight                  | LED                                                                                                                                  | LED                                                                                                                                  |
| Touch Type                 | PCAP Multi-touch up to 10 Points                                                                                                     | PCAP Multi-touch up to 10 Points                                                                                                     |
| Touch Light Transmission   | 89 %                                                                                                                                 | 89 %                                                                                                                                 |
| Touch Controller           | USB Type (EETI)                                                                                                                      | USB Type (EETI)                                                                                                                      |
| Input Connector            | HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys                                                                     | HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys                                                                     |
| Power Connector            | DC Jack (Option for Phoenix Connector)                                                                                               | DC Jack (Option for Phoenix Connector)                                                                                               |
| Power Type                 | +12V DC in (Option for 9V ~ 36V DC in)                                                                                               | +12V DC in (Option for 9V ~ 36V DC in)                                                                                               |
| Adapter                    | By Option                                                                                                                            | By Option                                                                                                                            |
| Construction (Front, Rear) | Metal                                                                                                                                | Metal                                                                                                                                |
| Option Features            | Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal Available Panel Mount Kits, Wall Mount Kits by Option | Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal Available Panel Mount Kits, Wall Mount Kits by Option |
| Dimension                  | 387 x 235 x 46 mm                                                                                                                    | 501.9 x 294.2 x 53.4 mm                                                                                                              |
| Weight                     | 2.5 kg                                                                                                                               | 4.1 kg                                                                                                                               |
| Operating Temperature      | 0°C ~ 45°C (32°F ~ 113°F)                                                                                                            | 0°C ~ 45°C (32°F ~ 113°F)                                                                                                            |
| Storage Temperature        | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                          | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                          |

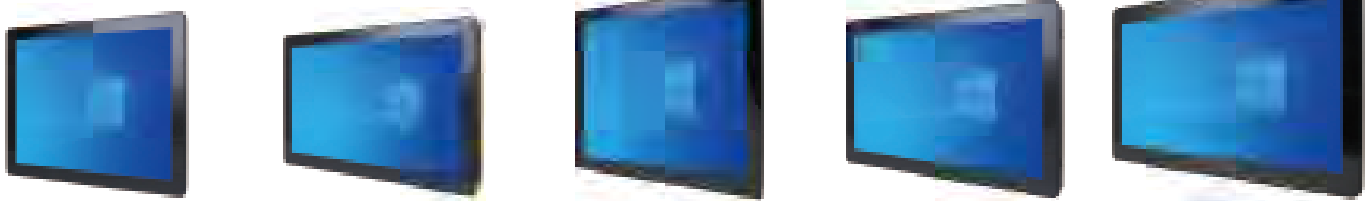
» 産業用堅牢タッチモニター



| ARC-10W00                                                                      | ARC-1200                                                                       |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 10.1"                                                                          | 12.1"                                                                          |
| WXGA                                                                           | XGA                                                                            |
| 1280 x 800                                                                     | 1024 x 768                                                                     |
| 0.1695 x 0.1695 mm                                                             | 0.240 x 0.240 mm                                                               |
| 350 cd/m²                                                                      | 600 cd/m²                                                                      |
| 800                                                                            | 1000                                                                           |
| 85 (U), 85 (D), 85 (L), 85 (R)                                                 | 88 (U), 88 (D), 88 (L), 88 (R)                                                 |
| 25 ms                                                                          | 11 ms                                                                          |
| LED                                                                            | LED                                                                            |
| PCAP Multi-touch up to 10 Points                                               | PCAP Multi-touch up to 10 Points                                               |
| 88%                                                                            | 88%                                                                            |
| USB Type                                                                       | USB Type                                                                       |
| HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in      | HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in      |
| DC Jack (Option for Phoenix Connector)                                         | DC Jack (Option for Phoenix Connector)                                         |
| +12V DC in (Option for 9V ~ 36V DC in)                                         | +12V DC in (Option for 9V ~ 36V DC in)                                         |
| Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)          | Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)          |
| Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits     | Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits     |
| Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal | Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal |
| 282.36 x 201 x 61.4 mm                                                         | 293.77 x 226.31 x 61.5 mm                                                      |
| 2 kg                                                                           | 2.5 kg                                                                         |
| -10°C ~ 50°C (14°F ~ 122°F)                                                    | -10°C ~ 50°C (14°F ~ 122°F) Option -20°C ~ 70°C                                |
| -20°C ~ 60°C (-4°F~140°F)                                                      | -20°C ~ 60°C (-4°F~140°F) Option -30°C ~ 70°C                                  |

産業用 タッチモニター

» 産業用堅牢タッチモニター



| ARC-1500                                                                       | ARC-15W00                                                                      | ARC-1700                                                                       | ARC-18W00                                                                      | ARC-21W00                                                                      |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 15"                                                                            | 15.6"                                                                          | 17"                                                                            | 18.5"                                                                          | 21.5"                                                                          |
| XGA                                                                            | WXGA                                                                           | SXGA                                                                           | WXGA                                                                           | FHD                                                                            |
| 1024 x 768                                                                     | 1366 x 768 (Optional for 1920 x 1080)                                          | 1280 x 1024                                                                    | 1366 x 768 (Optional for 1920 x 1080)                                          | 1920 x 1080                                                                    |
| 0.297 x 0.297 mm                                                               | 0.252 x 0.252 mm                                                               | 0.264 x 0.264 mm                                                               | 0.1 x 0.3 mm                                                                   | 0.24795 x 0.24795                                                              |
| 300 cd/m²                                                                      | 300 cd/m²                                                                      | 350 cd/m²                                                                      | 500 cd/m²                                                                      | 250 cd/m²                                                                      |
| 2000                                                                           | 500                                                                            | 800                                                                            | 1000                                                                           | 3000                                                                           |
| 88 (U), 88 (D), 88 (L), 88 (R)                                                 | 80 (U), 80 (D), 80 (L), 80 (R)                                                 | 60 (U), 88 (D), 88 (L), 88 (R)                                                 | 89 (U), 89 (D), 89 (L), 89 (R)                                                 | 89 (U), 89 (D), 89 (L), 89 (R)                                                 |
| 16 ms                                                                          | 8 ms                                                                           | 30 ms                                                                          | 25 ms                                                                          | 25 ms                                                                          |
| LED                                                                            | LED                                                                            | LED                                                                            | LED                                                                            | LED                                                                            |
| PCAP Multi-touch up to 10 Points                                               | PCAP Multi-touch up to 10 Points                                               | PCAP Multi-touch up to 10 Points                                               | PCAP Multi-touch up to 10 Points                                               | PCAP Multi-touch up to 10 Points                                               |
| 88%                                                                            | 88%                                                                            | 88%                                                                            | 88%                                                                            | 88%                                                                            |
| USB Type                                                                       | USB Type                                                                       | USB Type                                                                       | USB Type                                                                       | USB Type                                                                       |
| HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in      | HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in      | HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in      | HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in      | HDMI, Display Port, VGA, USB Type B for Touch Function, OSD Keys, Line in      |
| DC Jack (Option for Phoenix Connector)                                         | DC Jack (Option for Phoenix Connector)                                         | DC Jack (Option for Phoenix Connector)                                         | DC Jack (Option for Phoenix Connector)                                         | DC Jack (Option for Phoenix Connector)                                         |
| +12V DC in (Option for 9V ~ 36V DC in)                                         | +12V DC in (Option for 9V ~ 36V DC in)                                         | +12V DC in (Option for 9V ~ 36V DC in)                                         | +12V DC in (Option for 9V ~ 36V DC in)                                         | +12V DC in (Option for 9V ~ 36V DC in)                                         |
| Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)          | Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)          | Input: 100 ~ 240Vac/ 50 ~ 60Hz/ Output: 60W Adapter (12V @ 5A Adapter)         | Input: 100 ~ 240Vac/ 50 ~ 60Hz/ Output: 60W Adapter (12V @ 5A Adapter)         | Input: 100 ~ 240Vac/ 50 ~ 60Hz/ Output: 60W Adapter (12V @ 5A Adapter)         |
| Full Flat Die Casting with Cover Lens/ Metal Default with Panel mount kits     | Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits     | Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits     | Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits     | Full Flat Die Casting with Cover Lens/ Metal Default with Panel Mount Kits     |
| Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal | Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal | Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal | Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal | Support WiFi6 Media Server Function Bi-direction Image Transfer and USB Signal |
| 350.5 x 274.5 x 63.5 mm                                                        | 391.21 x 239.21 x 68 mm                                                        | 392.72 x 325.32 x 70.25 mm                                                     | 460.40 x 285.60 x 66 mm                                                        | 538.05 x 341.05 x 71 mm                                                        |
| 3.7 kg                                                                         | 3.2 kg                                                                         | 4.6 kg                                                                         | 5.1 kg                                                                         | 5.9 kg                                                                         |
| -10°C ~ 50°C (14°F ~ 122°F) Option -20°C ~ 70°C                                | -10°C ~ 50°C (14°F ~ 122°F) Option -10°C ~ 60°C                                | -10°C ~ 50°C (14°F ~ 122°F) Option -20°C ~ 70°C                                | -10°C ~ 50°C (14°F ~ 122°F)                                                    | -10°C ~ 50°C (14°F ~ 122°F)                                                    |
| -20°C ~ 60°C (-4°F~140°F) Option -30°C ~ 70°C                                  | -20°C ~ 60°C (-4°F~140°F) Option -30°C ~ 70°C                                  | -20°C ~ 60°C (-4°F~140°F), Option -30°C ~ 70°C                                 | -20°C ~ 60°C (-4°F~140°F)                                                      | -20°C ~ 60°C (-4°F~140°F)                                                      |

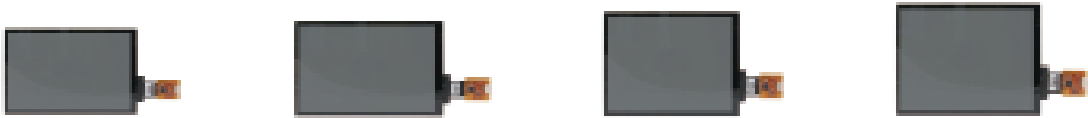
パネルキット



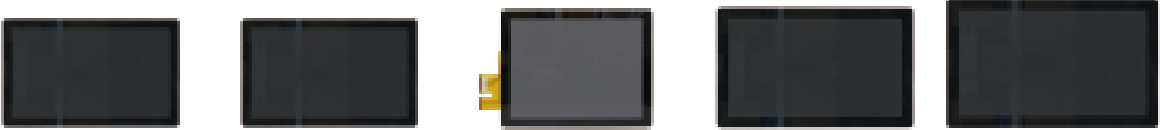
| Model Number             | PCC-LPC-AB08-R                 | PCC-FPC-AB08-R                 | PCC-FPC-AB10-R                 | PCC-ARC-AB12-R                 |
|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LCD Size                 | 8", 4:3                        | 8", 16:9                       | 10.1", 16:9                    | 12.1", 4:3                     |
| Display Type             | SVGA                           | WVGA                           | WSVGA                          | XGA                            |
| LED Driving Board        | Panel Built-in                 | External Board                 | Panel Built-in                 | Panel Built-in                 |
| Resolution               | 800 x 600                      | 1024 x 600                     | 1024 x 600                     | 1024 x 768                     |
| Pixel Pitch              | 0.0675 mm (H) x 0.2025 mm (V)  | 0.1725 mm (W) x 0.1656 mm (H)  | 0.2175 mm (W) x 0.2088 mm (H)  | 0.240 mm (H) x 0.240 mm (V)    |
| Luminance                | 500                            | 500                            | 350                            | 600                            |
| Contract Ratio           | 500                            | 700                            | 500                            | 1000                           |
| Viewing Angle            | 50 (U), 70 (D), 70 (L), 70 (R) | 70 (U), 75 (D), 75 (L), 75 (R) | 70 (U), 70 (D), 70 (L), 70 (R) | 89 (U), 89 (D), 89 (L), 89 (R) |
| Response Time            | 25 ms                          | 20 ms                          | 16 ms                          | 11 ms                          |
| Touch light Transmission | 80%                            | 80%                            | 80%                            | 80%                            |
| Touch Controller         | EETI                           | EETI                           | EETI                           | EETI                           |
| Touch Type               | 5W                             | 5W                             | 5W                             | 5W                             |
| Interface                | LVDS                           | LVDS                           | LVDS                           | LVDS                           |
| Operating Temperature    | -10°C ~ 70°C                   | -10°C ~ 70°C                   | 0°C ~ 50°C                     | -10°C ~ 70°C                   |



| Model Number             | PCC-PPC-AB15-R                 | PCC-SPC-AB17-R                 | PCC-PPC-AB21-R                 |
|--------------------------|--------------------------------|--------------------------------|--------------------------------|
| LCD Size                 | 15", 4:3                       | 17", 4:3                       | 21.5", 16:9                    |
| Display Type             | XGA                            | SXGA                           | FHD                            |
| LED Driving Board        | Panel Built-in                 | Panel Built-in                 | External Board                 |
| Resolution               | 1024 x 768                     | 1280 x 1024                    | 1920 x 1080                    |
| Pixel Pitch              | 0.297 mm (H) x 0.297 mm (V)    | 0.264 mm (H) x 0.264 mm (V)    | 0.248 mm (H) x 0.248 mm (V)    |
| Luminance                | 300                            | 350                            | 250                            |
| Contract Ratio           | 2000                           | 800                            | 3000                           |
| Viewing Angle            | 88 (U), 88 (D), 88 (L), 88 (R) | 80 (U), 80 (D), 85 (L), 85 (R) | 89 (U), 89 (D), 89 (L), 89 (R) |
| Response Time            | 16 ms                          | 30 ms                          | 18 ms                          |
| Touch light Transmission | 80%                            | 80%                            | 80%                            |
| Touch Controller         | EETI                           | EETI                           | EETI                           |
| Touch Type               | 5W                             | 5W                             | 5W                             |
| Interface                | LVDS                           | LVDS                           | LVDS                           |
| Operating Temperature    | -10°C ~ 70°C                   | -10°C ~ 70°C                   | 0°C ~ 50°C                     |



| Model Number             | PCC-OFP-AB07-C                 | PCC-ARC-AB10-C                 | PCC-ARC-AB12-C                 | PCC-ARC-AB15-C                 |
|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LCD Size                 | 7", 16:10                      | 10.1" 16:10                    | 12.1", 4:3                     | 15", 4:3                       |
| Display Type             | WXGA                           | WXGA                           | XGA                            | XGA                            |
| LED Driving Board        | Panel Built-in                 | Panel Built-in                 | Panel Built-in                 | Panel Built-in                 |
| Resolution               | 1280 x 800                     | 1280 x 800                     | 1024 x 768                     | 1024 x 768                     |
| Pixel Pitch              | 0.03925 (H) x 0.11775 (V)      | 0.1695 mm (H) x 0.1695 mm (V)  | 0.240 mm (H) x 0.240 mm (V)    | 0.297 mm (H) x 0.297 mm (V)    |
| Luminance                | 300                            | 350                            | 600                            | 300                            |
| Contract Ratio           | 900                            | 800                            | 1000                           | 2000                           |
| Viewing Angle            | 89 (U), 89 (D), 89 (L), 89 (R) | 85 (U), 85 (D), 85 (L), 85 (R) | 89 (U), 89 (D), 89 (L), 89 (R) | 88 (U), 88 (D), 88 (L), 88 (R) |
| Response Time            | 30 ms                          | 25 ms                          | 11 ms                          | 16 ms                          |
| Touch light Transmission | 89%                            | 88%                            | 89%                            | 89%                            |
| Touch Controller         | EETI                           | EETI                           | EETI                           | ILITEK                         |
| Touch Type               | PCAP                           | PCAP                           | PCAP                           | PCAP                           |
| Interface                | LVDS                           | LVDS                           | LVDS                           | LVDS                           |
| Operating Temperature    | -20°C ~ 70°C                   | -10°C ~ 50°C                   | -20°C ~ 70°C                   | -10°C ~ 70°C                   |



| Model Number             | PCC-ARC-AB15-C                 | PCC-ARC-AB15-C                 | PCC-ARC-AB17-C                 | PCC-ARC-AB21-C                  | PCC-APC-AB23-C                 |
|--------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|
| LCD Size                 | 15.6", 16:9                    | 15.6", 16:9                    | 17", 4:3                       | 21.5", 16:9                     | 23.8", 16:9                    |
| Display Type             | WXGA                           | FHD                            | SXGA                           | FHD                             | FHD                            |
| LED Driving Board        | Panel Built-in                 | Panel Built-in                 | Panel Built-in                 | External Board                  | External Board                 |
| Resolution               | 1366 x 768                     | 1920 x 1080                    | 1280 x 1024                    | 1920 x 1080                     | 1920 x 1080                    |
| Pixel Pitch              | 0.252 mm (H) x 0.252 mm (V)    | 0.17925 (H) x 0.17925 (V)      | 0.264 mm (H) x 0.264 mm (V)    | 0.24795 mm (H) x 0.24795 mm (V) | 0.2745 mm (H) x 0.2745 mm (V)  |
| Luminance                | 300                            | 450                            | 350                            | 250                             | 250                            |
| Contract Ratio           | 500                            | 800                            | 800                            | 3000                            | 1000                           |
| Viewing Angle            | 80 (U), 80 (D), 80 (L), 80 (R) | 85 (U), 85 (D), 85 (L), 85 (R) | 60 (U), 80 (D), 80 (L), 80 (R) | 89 (U), 89 (D), 89 (L), 89 (R)  | 89 (U), 89 (D), 89 (L), 89 (R) |
| Response Time            | 8 ms                           | 13 ms                          | 30 ms                          | 20 ms                           | 16 ms                          |
| Touch light Transmission | 89%                            | 85%                            | 89%                            | 89%                             | 85%                            |
| Touch Controller         | WEIDA                          | WEIDA                          | EETI                           | EETI                            | EETI                           |
| Touch Type               | PCAP                           | PCAP                           | PCAP                           | PCAP                            | PCAP                           |
| Interface                | LVDS                           | LVDS                           | LVDS                           | LVDS                            | LVDS                           |
| Operating Temperature    | 0°C ~ 60°C                     | -20°C ~ 70°C                   | -20°C ~ 70°C                   | 0°C ~ 50°C                      | 0°C ~ 50°C                     |



# Intelligent Healthcare



### メディカルタブレットPC

Avalueの医療用タブレットPCは、ヘルスケア現場でのデータ収集や管理におけるモビリティと柔軟性を実現するために設計されています。デジタル化により、医療分野での効率性と機動性が向上し、セキュリティが確保された体験を、洗練されたデザインとともに提供します。



### メディカルパネルPC

インテルプロセッサを搭載したAvalueの医療用パネルPCは、前面IP65防塵防水対応の医療用ディスプレイ等高度な機能を備え、最適なパフォーマンスと信頼性を提供します。



### メディカルディスプレイ

輝度安定化機能、優れた画質、高解像度、そして先進的なリモートコントロール技術により、医療用モニターディスプレイは正確で信頼性の高い医用画像を提供します。



### メディカルコンピューティングシステム

AvalueのGPU拡張システムは、スマート医療、製造、輸送などの高速コンピューティングアプリケーション向けに提供しています。



### メディカルビデオマネージャー

手術や診断中のリアルタイムビデオ録画のために、さまざまな医療機器と統合するように設計されています。高品質なビデオ表示を提供し、医療基準に準拠しています。



### メディカルバッテリーシステム

## メディカルタブレット PC



| Model Number            | CAXA0                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------|
| Processor               | Intel® Celeron® N3350 1.1GHz Processor                                                 |
| System Memory           | Onboard 4GB LPDDR4                                                                     |
| Storage                 | 64GB M.2 Solid State Drive (Option up to 128GB)                                        |
| Operating System        | Windows 10/ Android 8.1                                                                |
| LCD Size                | 10.1", WXGA                                                                            |
| Resolution              | 1280 x 800                                                                             |
| Luminance               | 300 cd/m²                                                                              |
| Touch Screen            | 10 Points Projective Capacitive                                                        |
| Wireless LAN            | 802.11 a/b/g/n/ac                                                                      |
| Bluetooth               | Bluetooth 5.0                                                                          |
| Camera                  | 2MP Front Camera<br>8MP Rear Camera With Auto Focus                                    |
| NFC                     | ISO/ IEC 14443 A/B, 15693/ 18092, NFCIP-1, NFCIP-2<br>Support MIFARE and Felica        |
| Barcode Scanner         | 1D/2D Barcode Scanner (Optional)                                                       |
| Downside I/O Connectors | 1 x Audio Jack<br>2 x USB 2.0 Type A<br>1 x Micro SD<br>1 x DC Jack<br>1 x HDMI Output |
| Control Button          | 1 x Power Button<br>1 x Barcode Scanner Trigger                                        |
| LED Indicator           | 1 x Power                                                                              |
| Power Requirement       | DC Jack +19V                                                                           |
| Battery                 | 28.44W Li-Polymer Battery                                                              |
| Battery Operating Time  | 6 Hours                                                                                |
| Construction            | Rubber + Plastic                                                                       |
| Dimensions              | 281 x 193.3 x 19.95 mm                                                                 |
| Weight                  | 1 kg                                                                                   |
| Operating Temperature   | 0°C ~ 40°C (32°F ~ 104°F)                                                              |
| Storage Temperature     | -20°C ~ 60°C (-4°F ~ 140°F)                                                            |
| IP Rating               | IP65                                                                                   |
| Certifications          | CE, FCC, VCCI, CCC, BSMI, EN60601-1, EN60601-1-2                                       |



### CAXA0-DC CAXA0 Desktop Cradle

- Desktop Cradle for CAXA0
- +19V DC input
- Support 3 x USB2.0/ 1 x 10/100 LAN
- 180 x 198.2 x 129.2 mm
- 1.05 Kg



### CAXA0-WM CAXA0 Wall Mount kit

- Wall Mount kit for CAXA0
- +19V DC input
- Support 3 x USB2.0/ 1 x 10/100 LAN
- VESA mount compliant (75 x 75 mm)
- 143.6 x 218.8 x 48.6 mm
- 0.58 kg



### CAXA0-CS CAXA0 Battery Charging Station

- Battery Charging Station for CAXA0
- +19V DC input
- Support 3 Batteries charging
- 159 x 105 x 57.9 mm
- 0.62 Kg



### CAXA0-SS CAXA0 Shoulder Strap

- Shoulder Strap for CAXA0
- Adjustable shoulder strap with 130cm drop



### CAXA0-HS CAXA0 Hand Strap

- Hand Strap for CAXA0

メディカルパネル PC



| Model Number               | HID-2340                                                                                                                              | HID-2334                                                                                                                       | HID-2138                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| LCD Size                   | 23.8"                                                                                                                                 | 23.8"                                                                                                                          | 21.5"                                                                                                        |
| Display Type               | Full HD                                                                                                                               | Full HD                                                                                                                        | Full HD                                                                                                      |
| Resolution                 | 1920 x 1080                                                                                                                           | 1920 x 1080                                                                                                                    | 1920 x 1080                                                                                                  |
| Pixel Pitch                | 0.274 x 0.274                                                                                                                         | 0.274 x 0.274                                                                                                                  | 0.248 x 0.248                                                                                                |
| Luminance                  | 250 cd/m²                                                                                                                             | 250 cd/m²                                                                                                                      | 250 cd/m²                                                                                                    |
| Contrast Ratio             | 3000                                                                                                                                  | 3000                                                                                                                           | 1000                                                                                                         |
| Viewing Angle              | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                        | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                 | 89 (U), 89 (D), 89 (L), 89 (R)                                                                               |
| Response Time              | 16 ms                                                                                                                                 | 16 ms                                                                                                                          | 22 ms                                                                                                        |
| Backlight                  | LED                                                                                                                                   | LED                                                                                                                            | LED                                                                                                          |
| Touch Type                 | Projective Capacitive                                                                                                                 | Projective Capacitive                                                                                                          | Projective Capacitive                                                                                        |
| Touch Light Transmission   | 86%                                                                                                                                   | 86%                                                                                                                            | 89%                                                                                                          |
| Touch Controller           | USB Interface, EETI                                                                                                                   | USB Interface, EETI                                                                                                            | USB Interface, EETI                                                                                          |
| SBC                        | HID ADLPS Motherboard                                                                                                                 | HID-2334 M/B + Charger Board                                                                                                   | HID TGLP Motherboard                                                                                         |
| Processor                  | Socketed FCLGA1700 Intel® 12th/13th Gen Core™ i7/i5/i3 Processor                                                                      | 7th Generation Intel® Kaby Lake Core™ i7/i5/i3/ Celeron® Processor                                                             | 11th Gen Intel® Core™ i7/i5/i3/Celeron Processor                                                             |
| I/O Chipset                | EC ITE IT5782VG                                                                                                                       | EC ITE IT8518E                                                                                                                 | EC ITE IT8528E                                                                                               |
| System Memory              | 1 x 262-pin DDR5 4800MHz SO-DIMM Socket up to 32GB Max (Min 8GB)                                                                      | 2 x 260pin SODIMM Socket up to 32GB DDR4 2400 SDRAM                                                                            | 2 x 260-pin DDR4 3200 MHz SO-DIMM socket up to 64GB Max                                                      |
| Expansion                  | Optional M.2 Key B 3042/3052/2280 x 1<br>Optional M.2 Key E for WIFI x 1<br>Optional IET Expansion x 1                                | 1 x M.2 (Key E, 2230) with PCIe x1<br>CNVI and USB2.0 for Wireless<br>1 x mini PCIe with SATA or PCIe x1, mSATA                | Optional PCIe Low Profile Card x 1<br>Optional M.2 Storage x 1<br>Optional M.2 5G Module x 1                 |
| Storage                    | 1 x M.2 Key M Storage (Optional)<br>1 x 2.5" SSD (Optional)                                                                           | 1 x 2.5" SATA3 SSD (Optional)                                                                                                  | 1 x M.2 Key-B 2242/3042/2260 for Storage                                                                     |
| USB                        | 1 x USB 2.0, 3 x USB 3.0<br>1 x USB Type C, 1 x USB 1.1 (Isolated 5KV)                                                                | 4 x USB 3.0                                                                                                                    | 2 x USB 2.0<br>2 x USB Type C                                                                                |
| COM Port                   | 1 x RS-232/422/485<br>1 x RS-232 (Isolated 5KV)                                                                                       | N/A                                                                                                                            | Optional                                                                                                     |
| Other                      | Optional 5.0M AF Camera<br>Optional Barcode Scanner<br>Optional NFC<br>Optional Capture Card, Optional WIFI/ BT<br>Optional IET Board | Optional Hot Swappable<br>Batteries and 4 Slot Charging Bay<br>Optional 5.0M Auto Focus Camera with Cover<br>Optional WIFI/ BT | Optional 5.0M AF Camera<br>Optional Barcode Scanner<br>Optional NFC<br>Optional WIFI/ BT<br>Optional Handset |
| Display Chipset            | Intel® 12th Generation CPU Integrated                                                                                                 | Intel® HD Graphics 620                                                                                                         | Intel® 11th Generation CPU Integrated                                                                        |
| Audio                      | Realtek ALC888S                                                                                                                       | Realtek ALC888S                                                                                                                | Realtek ALC888S                                                                                              |
| Audio Interface            | Line-out, Mic-in, 2 x 2W Speaker                                                                                                      | Line-out, Mic-in, 2 x 2W Speaker                                                                                               | Line-out, Mic-in, 2 x 2W Speaker                                                                             |
| Ethernet                   | 1 x Intel® I225LM Gigabit Ethernet<br>1 x Intel® I226LM Gigabit Ethernet                                                              | 1 x Intel® I210AT, 1 x Intel® I219LM                                                                                           | 1 x Intel® I219LM Gigabit Ethernet PHY<br>1 x Intel® I226LM Gigabit Ethernet PHY                             |
| Adapter                    | AC/ DC Medical Power Adapter<br>Output: 120W Adapter (24V/ 5A Adapter)                                                                | AC/ DC Medical Power Adapter<br>Output: 120W Adapter (24V/ 5A Adapter)                                                         | AC/ DC Medical Power Adapter<br>Output: 90W Adapter (19V/ 4.73A Adapter)                                     |
| Construction (Front, Rear) | Plastic, Plastic                                                                                                                      | Plastic, Plastic                                                                                                               | Plastic, Plastic                                                                                             |
| Dimension                  | 592 x 382 x 49.5mm                                                                                                                    | 380 x 587 x 45.5mm                                                                                                             | 539.6 x 342.6 x 45.4 mm                                                                                      |
| Weight                     | 6.0 kg                                                                                                                                | 6.9 kg (without Batteries)                                                                                                     | 4.8 kg                                                                                                       |
| Operating Temperature      | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                             | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                      | 0°C ~ 40°C (32°F ~ 104°F)                                                                                    |
| Storage Temperature        | -10°C ~ 60°C (14°F ~ 140°F)                                                                                                           | -30°C ~ 70°C (-22°F ~ 158°F)                                                                                                   | -10°C ~ 60°C (14°F ~ 140°F)                                                                                  |
| Certification              | CE, FCC Class B, UL60601-1                                                                                                            | CE, FCC Class B, UL60601-1 4th Edition                                                                                         | CE, FCC Class B, UL60601-1                                                                                   |
| OS Information             | Windows 10 IoT, Linux                                                                                                                 | Win 10, Linux                                                                                                                  | Win 10, Linux                                                                                                |

メディカルパネル PC



| HID-2132                                                                                                     | HID-1540                                                                                               | HID-1337                                                                                                    |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 21.5"                                                                                                        | 15.6"                                                                                                  | 13.3"                                                                                                       |
| Full HD                                                                                                      | Full HD                                                                                                | Full HD                                                                                                     |
| 1920 x 1080                                                                                                  | 1920 x 1080                                                                                            | 1920 x 1080                                                                                                 |
| 0.248 x 0.248                                                                                                | 0.179 x 0.179                                                                                          | 0.153 x 0.153                                                                                               |
| 250 cd/m²                                                                                                    | 500 cd/m²                                                                                              | 300 cd/m²                                                                                                   |
| 1000                                                                                                         | 1000                                                                                                   | 600                                                                                                         |
| 89 (U), 89 (D), 89 (L), 89 (R)                                                                               | 89 (U), 89 (D), 89 (L), 89 (R)                                                                         | 89 (U), 89 (D), 89 (L), 89 (R)                                                                              |
| 22 ms                                                                                                        | 25 ms                                                                                                  | 27 ms                                                                                                       |
| LED                                                                                                          | LED                                                                                                    | LED                                                                                                         |
| Projective Capacitive                                                                                        | Projective Capacitive                                                                                  | Projective Capacitive                                                                                       |
| 89%                                                                                                          | 89%                                                                                                    | 85%                                                                                                         |
| USB Interface, EETI                                                                                          | USB Interface, EETI                                                                                    | USB Interface, EETI                                                                                         |
| ARC-SKLU                                                                                                     | HID ADLPS Motherboard                                                                                  | HID-1337 Motherbaord                                                                                        |
| 6th Gen Intel® Core™ i7/5/3/ Celeron Processor                                                               | Socketed FCLGA1700 Intel® 12th/13th Gen Core™ i7/i5/i3 Processor                                       | Intel® Alder Lake-N Processor                                                                               |
| EC ITE IT8528E                                                                                               | EC ITE IT5782VG                                                                                        | EC ITE IT5782VG                                                                                             |
| 1 x 260pin SODIMM Socket up to 16GB DDR4 2133 SDRAM                                                          | 1 x 262-pin DDR5 4800MHz SO-DIMM Socket up to 32GB Max (Min 8GB)                                       | 1 x 262-pin DDR5 4800MHz SO-DIMM Socket up to 16GB                                                          |
| 1 x Full Size (Support Half Size, Auto Switch for mSATA, USB, PCIe Signal)<br>Optional IET Expansion x 1     | Optional M.2 Key B 3042/3052/2280 x 1<br>Optional M.2 Key E for WIFI x 1                               | Optional M.2 (Key-B, 2242/3042/3052, SATA only) x 1<br>Optional M.2 (Key-E, 2230, PCIe x1, USB2.0) x 1      |
| 1 x 2.5" SATA3 SSD (Optional)                                                                                | 1 x M.2 Key M Storage (Optional)                                                                       | 1 x M.2 Key-B 2242/3042/3052 for M.2 SATAIII SSD (Optional)                                                 |
| 4 x USB 3.0, 2 x USB 2.0 by Pin Header<br>1 x USB 2.0 (Isolated 5KV)                                         | 1 x USB 2.0 3 x USB 3.0<br>1 x USB Type C                                                              | 4 x USB 3.2 at Bottom<br>2 x USB 3.2 at Side<br>1 x USB Type C (PD Output 5V/3A 15W, USB, Display Function) |
| 1 x RS-232/422/485, 1 x RS-232<br>1 x RS-232 (Isolated 5KV)                                                  | 1 x RS-232/422/485                                                                                     | 1 x RS-232/422/485                                                                                          |
| Optional 5.0M AF Camera<br>Optional Barcode Scanner<br>Optional WIFI/ BT<br>Optional NFC<br>Optional Handset | Default with Programable LED Light Bar<br>Optional 5.0M AF Camera<br>Optional NFC<br>Optional WIFI/ BT | Default with Programable LED Light Bar<br>Optional RFID<br>Optional WIFI/ BT                                |
| Intel® HD Graphics 520                                                                                       | Intel® 12th Generation CPU Integrated                                                                  | Intel® 12th Generation CPU Integrated                                                                       |
| Realtek ALC888S                                                                                              | Realtek ALC888S                                                                                        | Realtek ALC888S                                                                                             |
| 2 x 2W                                                                                                       | Line-out, Mic-in, 2 x 5W Speaker                                                                       | 2 x 5W Speaker                                                                                              |
| 1 x Intel® I219LM, 1 x Intel® I210AT<br>1 x Intel® I210AT (Isolated 5KV) on IET Module                       | 1 x Intel® I225LM Gigabit Ethernet<br>1 x Intel® I226LM Gigabit Ethernet                               | 2 x Intel® I226LM 2.5 Gigabit Ethernet                                                                      |
| AC/ DC Medical Power Adapter<br>Output: 90W Adapter (19V/ 4.74A Adapter)                                     | AC/ DC Medical Power Adapter<br>Output: 120W Adapter (24V/5A Adapter)                                  | AC/ DC Medical Power Adapter<br>Output: 72W Adapter (24V/3A Adapter)                                        |
| Plastic, Plastic                                                                                             | Plastic, Plastic                                                                                       | Plastic, Plastic                                                                                            |
| 539.6 x 342.6 x 45.2 mm                                                                                      | 400 x 263 x 42.5 mm                                                                                    | 198 x 325 x 38 mm                                                                                           |
| 5.6 kg                                                                                                       | 2.3 kg                                                                                                 | 1.8 kg                                                                                                      |
| 0°C ~ 40°C (32°F ~ 104°F)                                                                                    | 0°C ~ 40°C (32°F ~ 104°F)                                                                              | 0°C ~ 40°C (32°F ~ 104°F)                                                                                   |
| -20°C ~ 60°C (-4°F ~ 140°F)                                                                                  | -10°C ~ 60°C (14°F ~ 140°F)                                                                            | -10°C ~ 60°C (14°F ~ 140°F)                                                                                 |
| CE, FCC Class B, UL60601-1 4th Edition                                                                       | CE, FCC Class B, UL60601-1                                                                             | CE, FCC Class B, UL60601-1                                                                                  |
| Win 7/ 10/ Linux                                                                                             | Win10 64bit, Linux                                                                                     | Win 10/11 Linux                                                                                             |

メディカルタッチモニター



| Model Number               | HID-2100                                                       | RCC-MM-GMD23G-01R                                                                                                                                                   | RCC-MM-GMD24G-01R                                                                                                                                              |
|----------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size                   | 21.5"                                                          | 23.8"                                                                                                                                                               | 24"                                                                                                                                                            |
| Display Type               | Full HD                                                        | Full HD                                                                                                                                                             | Full HD                                                                                                                                                        |
| Resolution                 | 1920 x 1080                                                    | 1920 x 1080                                                                                                                                                         | 1920 x 1200                                                                                                                                                    |
| Pixel Pitch                | 0.248 x 0.248                                                  | 0.2745 x 0.2745                                                                                                                                                     | 0.270 x 0.270                                                                                                                                                  |
| Luminance                  | 250 cd/m²                                                      | AG Glass 230 nits<br>AG PCAP 220 nits (Optional)                                                                                                                    | AR Glass 820 nits<br>AG PCAP 800 nits (Optional)                                                                                                               |
| Contrast Ratio             | 1000                                                           | 3000                                                                                                                                                                | 1000                                                                                                                                                           |
| Viewing Angle              | 89 (U), 89 (D), 89 (L), 89 (R)                                 | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                      | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                 |
| Response Time              | 22 ms                                                          | 16 ms                                                                                                                                                               | 14 ms                                                                                                                                                          |
| Backlight                  | LED                                                            | LED                                                                                                                                                                 | LED                                                                                                                                                            |
| Touch Type                 | Projective Capacitive                                          | Projective Capacitive                                                                                                                                               | Projective Capacitive                                                                                                                                          |
| Touch Light Transmission   | 89%                                                            | 89%                                                                                                                                                                 | 89%                                                                                                                                                            |
| USB                        | 2 x USB 2.0<br>1 x USB Type B                                  | N/A                                                                                                                                                                 | N/A                                                                                                                                                            |
| Calibration Mode/ DICOM    | N/A                                                            | Optional                                                                                                                                                            | Optional                                                                                                                                                       |
| Optional                   | N/A                                                            | AG PCAP Touch<br>0.5W Speaker x2<br>DICOM<br>Calibration Mode                                                                                                       | AG PCAP Touch<br>0.5W Speaker x2<br>DICOM<br>Calibration Mode                                                                                                  |
| Connector                  | HDMI Input<br>DP Input<br>VGA Input<br>DC Output               | VGA Input<br>DVI Input<br>HDMI Input<br>Display Port Input                                                                                                          | VGA Input<br>DVI Input<br>HDMI Input<br>Display Port Input                                                                                                     |
| Audio Interface            | Line-out, Mic-in, 2 x 2W Speaker                               | 0.5W Speaker x2 (Optional)                                                                                                                                          | 0.5W Speaker x2 (Optional)                                                                                                                                     |
| Adapter                    | AC/ DC Power Adapter<br>Output: 120W Adapter (24V/ 5A Adapter) | Adapter ATM065T-P240 Class 1 Adapter (65W, 24V)                                                                                                                     | AC/DC Adapter<br>Input: 100~250Vac, 1A, 60/50Hz<br>Output: 24V, 3.75A                                                                                          |
| Construction (Front, Rear) | Plastic, Plastic                                               | Plastic, Plastic                                                                                                                                                    | Plastic, Plastic                                                                                                                                               |
| IP Rating                  | IP65 at Front                                                  | IP65 at Front                                                                                                                                                       | IP65 at Front                                                                                                                                                  |
| Dimension                  | 539.6 x 342.6 x 45.5 mm                                        | 587.0 x 367.5 x 59.5 mm                                                                                                                                             | 573.8 x 387.8 x 63.5 mm                                                                                                                                        |
| Weight                     | 5.3 kg                                                         | 6.8 kg                                                                                                                                                              | 7 kg                                                                                                                                                           |
| Operating Temperature      | 0°C ~ 40°C (32°F ~ 104°F)                                      | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                           | 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                      |
| Storage Temperature        | -20°C ~ 60°C (-4°F ~ 140°F)                                    | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                         | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                    |
| Certification              | CE, FCC Class B                                                | CE (IEC/EN/BS EN60601-1, IEC/EN/BS EN60601-2)<br>FCC Class B, VCCI, CCC<br>cTUVus Certified<br>(ANSI/AAMI ES60601-1, CSA C22.2 NO.60601-1)<br>DIN6868-157 Compliant | CE (IEC/EN/BS EN60601-1, IEC/EN/BS EN60601-2)<br>FCC Class B, VCCI<br>cTUVus Certified<br>(ANSI/AAMI ES60601-1, CSA C22.2 NO.60601-1)<br>DIN6868-157 Compliant |

メディカルタッチモニター



| RCC-MM-GMD27G-01R                                                                                                                                                                           | RCC-MM-GMD27G-02R                                                                                           | RCC-MM-GMD32G-02R                                                                                     | RCC-MM-GMD55G-01R                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 27"                                                                                                                                                                                         | 27"                                                                                                         | 32"                                                                                                   | 55"                                                                                                               |
| Full HD                                                                                                                                                                                     | 4K                                                                                                          | 4K                                                                                                    | 4K                                                                                                                |
| 1920 x 1080                                                                                                                                                                                 | 3840 x 2160                                                                                                 | 3840 x 2160                                                                                           | 3840 x 2160                                                                                                       |
| 0.3114 x 0.3114                                                                                                                                                                             | 0.15525 x 0.15525                                                                                           | 0.1845 x 0.1845                                                                                       | 0.315 x 0.315                                                                                                     |
| AR Glass 930 nits<br>AG PCAP 850 nits (Optional)                                                                                                                                            | AR Glass 740 nits<br>AG PCAP 710 nits (Optional)                                                            | AR Glass 780 nits<br>AG PCAP 750 nits (Optional)                                                      | AG Glass 460 nits<br>AG PCAP 440 nits (Optional)                                                                  |
| 1000                                                                                                                                                                                        | 1000                                                                                                        | 1500                                                                                                  | 4000                                                                                                              |
| 89 (U), 89 (D), 89 (L), 89 (R)                                                                                                                                                              | 89 (U), 89 (D), 89 (L), 89 (R)                                                                              | 89 (U), 89 (D), 89 (L), 89 (R)                                                                        | 89 (U), 89 (D), 89 (L), 89 (R)                                                                                    |
| 14 ms                                                                                                                                                                                       | 16 ms                                                                                                       | 20 ms                                                                                                 | 8.5 ms                                                                                                            |
| LED                                                                                                                                                                                         | LED                                                                                                         | LED                                                                                                   | LED                                                                                                               |
| Projective Capacitive                                                                                                                                                                       | Projective Capacitive                                                                                       | Projective Capacitive                                                                                 | Projective Capacitive                                                                                             |
| 89%                                                                                                                                                                                         | 89%                                                                                                         | 89%                                                                                                   | 89%                                                                                                               |
| N/A                                                                                                                                                                                         | N/A                                                                                                         | N/A                                                                                                   | 1 x USB HUB                                                                                                       |
| Optional                                                                                                                                                                                    | Default                                                                                                     | Default                                                                                               | Optional                                                                                                          |
| AG PCAP Touch<br>2W Speaker x2<br>DICOM<br>Calibration Mode<br>Backlight Stabilizer (ALS)                                                                                                   | AG PCAP Touch<br>2W Speaker x2<br>SDI in/out or DVI in<br>GPIO Remote Control                               | AG PCAP Touch<br>2W Speaker x2<br>GPIO Remote Control<br>SDI in/out or DVI in                         | AG PCAP Touch<br>Speaker ODM Evaluation<br>Calibration Mode<br>GPIO Remote Control<br>Backlight Stabilizer (ALS)  |
| VGA Input<br>DVI Input<br>HDMI Input<br>Display Port Input                                                                                                                                  | VGA Input<br>DVI Input<br>HDMI Input<br>Display Port Input                                                  | VGA Input<br>DVI Input<br>HDMI Input<br>Display Port Input                                            | VGA Input<br>DVI Input<br>Display Port Input                                                                      |
| 2W Speaker x2 (Optional)                                                                                                                                                                    | 2W Speaker x2 (Optional)                                                                                    | 2W Speaker x2 (Optional)                                                                              | ODM Evaluation                                                                                                    |
| AC/DC Adapter<br>Input: 100~250Vac, 1A, 60/50Hz<br>Output: 24V, 3.75A                                                                                                                       | Delta MDS-150AAS24 F class1 PSU (150W,24V)                                                                  | AC/DC Adapter<br>Input: 100~250 Vac, 60/50Hz<br>Output: 24V, 6.25A                                    | Delta MDS-400AUS24B PSU<br>(400W,24V,NO FAN)                                                                      |
| GM Metal, Plastic                                                                                                                                                                           | GM Metal, GM Metal                                                                                          | GM Metal, GM Metal                                                                                    | GM Metal, GM Metal                                                                                                |
| IP65 at Front                                                                                                                                                                               | IP65 at Front                                                                                               | IP65 at Front                                                                                         | IP65 at Front                                                                                                     |
| 660.2 x 408.8 x 65.8 mm                                                                                                                                                                     | 660.2 x 408.76 x 52.9 mm                                                                                    | 761.2 x 465.6 x 61.5 mm                                                                               | 1314 x 785 x 85 mm                                                                                                |
| 8 kg                                                                                                                                                                                        | 7.5 kg                                                                                                      | 11 kg                                                                                                 | 39 kg                                                                                                             |
| 0°C ~ 40°C (32°F ~ 104°F)                                                                                                                                                                   | 0°C ~ 40°C (32°F ~ 104°F)                                                                                   | 0°C ~ 40°C (32°F ~ 104°F)                                                                             | 0°C ~ 40°C (32°F ~ 104°F)                                                                                         |
| -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                 | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                 | -20°C ~ 60°C (-4°F ~ 140°F)                                                                           | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                       |
| CE (IEC/EN/BS EN60601-1, IEC/EN/BS EN60601-2)<br>FCC Class B, VCCI<br>CAN/CSA C22.2 NO.60601-1)<br>cTUVus certified<br>(ANSI/AAMI ES60601-1, CSA C22.2 NO.60601-1)<br>DIN6868-157 Compliant | CE, FCC Class B, VCCI<br>UL/cUL (ANSI/AAMI ES60601-1,<br>CAN/CSA C22.2 NO.60601-1)<br>DIN6868-157 Compliant | CE, FCC Class B<br>UL/cUL (ANSI/AAMI ES60601-1,<br>CAN/CSA C22.2 NO.60601-1)<br>DIN6868-157 Compliant | CE, FCC Class B, VCCI<br>cTUVus certified (ANSI/AAMI ES60601-1,<br>CSA C22.2 NO.60601-1)<br>DIN6868-157 Compliant |

メディカルコンピューティングシステム



| Model Name                  | MAB-T660                                                                                                                                                                                                                                                                                                 | MAB-T600                                                                                                                                                                                                                                                                                                                                             | MAB-T600-B1                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor                   | 12/13th Generation Intel® Core™ i9/i7/i5/i3 LGA1700 Processor                                                                                                                                                                                                                                            | 12/13th Generation Intel® Core™ i9/i7/i5/i3 LGA1700 Processor                                                                                                                                                                                                                                                                                        | 12/13th Generation Intel® Core™ i9/i7/i5/i3 LGA1700 Processor                                                                                                                                                                                                                                                                                        |
| Motherboard                 | EMX-R680P                                                                                                                                                                                                                                                                                                | RX610H                                                                                                                                                                                                                                                                                                                                               | RX680R                                                                                                                                                                                                                                                                                                                                               |
| System Memory               | 2 x SODIMM Up to 64GB Dual Channel DDR5 4800MHz Non-ECC DRAM Support                                                                                                                                                                                                                                     | 2 x DIMM Slots Support Dual Channel DDR5 Memory Speed up to 4800/5600MHz (CPU Dependent) with UDIMM, up to 64GB                                                                                                                                                                                                                                      | 4 x DIMM Slots Support Dual Channel DDR5 Memory Speed up to 4400MHz with UDIMM, up to 128GB, with ECC Support                                                                                                                                                                                                                                        |
| Expansion                   | 1 x M.2 (2230) E-Key, Support Wi-Fi Module<br>1 x M.2 (2242/2280) M-Key<br>1 x PCI-e x 16 Gen 5 or 2 x PCI-e x 8 by Switch (from CPU)                                                                                                                                                                    | 1 x M.2 M-Key 2242/2280/22110 NVMe<br>1 x M.2 E-Key 2230 with CNVi Support<br>1 x Gen 5 PCIe x16 (x16 Physical Black)<br>1 x Gen 3 PCIe x1 (x4 Physical Open Ended)<br>2 x Gen 3 PCIe x1 (x16 Physical Yellow)                                                                                                                                       | 1 x M.2 M-Key 2242/2280/22110 NVMe<br>1 x M.2 M-Key 2242/2280/22110 NVMe<br>1 x M.2 E-Key 2230 with CNVi Support<br>1 x Gen 5 PCIe x16<br>2 x Gen 4 PCIe x4 (x16 Physical Yellow)<br>1 x Gen 3 PCIe x4 Open Ended                                                                                                                                    |
| Storage                     | 1 x 2.5" SATAIII HDD/SSD Drive                                                                                                                                                                                                                                                                           | 2 x 2.5" SATAIII HDD/SSD Drive (2 x 3.5" SATAIII HDD/SSD Drive as Option)                                                                                                                                                                                                                                                                            | 2 x 2.5" SATAIII HDD/SSD Drive (2 x 3.5" SATAIII HDD/SSD Drive as Option)                                                                                                                                                                                                                                                                            |
| USB                         | 2 x USB 2.0 (Front I/O)<br>4 x USB 3.2 Gen 2<br>4 x USB 3.2 Gen 1                                                                                                                                                                                                                                        | 2 x USB 2.0 (Front I/O)<br>2 x USB 2.0 Type A<br>4 x USB 3.2 Type A                                                                                                                                                                                                                                                                                  | 2 x USB 2.0 (Front I/O)<br>6 x USB 3.2 Gen 2 x 1 Ports<br>1 x USB 3.2 Gen 2 x 2 Type-C                                                                                                                                                                                                                                                               |
| Other I/O                   | 1 x HDMI<br>2 x DP<br>4 x RJ45                                                                                                                                                                                                                                                                           | 1 x HDMI<br>2 x DP<br>2 x RJ45                                                                                                                                                                                                                                                                                                                       | 4 x DP<br>2 x RJ45                                                                                                                                                                                                                                                                                                                                   |
| Audio                       | Realtek Audio Code<br>1 x Mic-in, 1 x Line-out                                                                                                                                                                                                                                                           | Realtek Audio Code<br>1 x Mic-in, 1 x Line-out                                                                                                                                                                                                                                                                                                       | Realtek Audio Code<br>1 x Mic-in, 1 x Line-out                                                                                                                                                                                                                                                                                                       |
| Operating Temperature       | 0 ~ 35°C (32°F ~ 95°F) w/ SSD, Ambient w/ 0.5m/s Air Flow                                                                                                                                                                                                                                                | 0 ~ 40°C (32°F ~ 104°F) w/ SSD, Ambient w/ 0.5m/s Air Flow                                                                                                                                                                                                                                                                                           | 0 ~ 40°C (32°F ~ 104°F) w/ SSD, Ambient w/ 0.5m/s Air Flow                                                                                                                                                                                                                                                                                           |
| Power Supply                | 400W ATX Power Supply (Medical Grade)                                                                                                                                                                                                                                                                    | 500W ATX Power Supply (Medical Grade)                                                                                                                                                                                                                                                                                                                | 500W ATX Power Supply (Medical Grade)                                                                                                                                                                                                                                                                                                                |
| Color                       | White                                                                                                                                                                                                                                                                                                    | White                                                                                                                                                                                                                                                                                                                                                | White                                                                                                                                                                                                                                                                                                                                                |
| Dimension (W x D x H)       | 315 x 273 x 92 mm                                                                                                                                                                                                                                                                                        | 330 x 344 x 160 mm                                                                                                                                                                                                                                                                                                                                   | 330 x 344 x 160 mm                                                                                                                                                                                                                                                                                                                                   |
| Weight                      | 4.8 kg                                                                                                                                                                                                                                                                                                   | 7 kg                                                                                                                                                                                                                                                                                                                                                 | 7 kg                                                                                                                                                                                                                                                                                                                                                 |
| Certification               | IT Grade<br>CE, FCC Class A                                                                                                                                                                                                                                                                              | Medical Grade<br>CE, FCC Class B                                                                                                                                                                                                                                                                                                                     | Medical Grade<br>CE, FCC Class B                                                                                                                                                                                                                                                                                                                     |
| Compatible Add-on Card List | NVIDIA RTX4000 SFF Ada<br>NVIDIA RTX2000 Ada<br>NVIDIA T1000<br>YUAN SC400N2-L HDMI 2CH 1080p<br>YUAN SC400N4 HDMI 4CH 1080p<br>YUAN SC710N2-L HDMI 2CH 4K<br>YUAN SC410N4 HDMI 4CH 4K<br>Intel 82574 1CH LAN Card<br>Intel I350AM2 2CH LAN Card<br>Intel I210 PoE Card<br>PCIe WIFI 6/6E Module Kit/Set | NVIDIA RTX4000 Ada<br>NVIDIA RTX4000 SFF Ada<br>NVIDIA RTX2000 Ada<br>NVIDIA T1000<br>YUAN SC400N2-L HDMI 2CH 1080p<br>YUAN SC400N4 HDMI 4CH 1080p<br>YUAN SC710N2-L HDMI 2CH 4K<br>YUAN SC410N4 HDMI 4CH 4K<br>Intel 82574 1CH LAN Card<br>Intel I350AM2 2CH LAN Card<br>Intel I210 PoE Card<br>PCIe WIFI 6/6E Module Kit/Set<br>PCIe 5G Module Set | NVIDIA RTX4000 Ada<br>NVIDIA RTX4000 SFF Ada<br>NVIDIA RTX2000 Ada<br>NVIDIA T1000<br>YUAN SC400N2-L HDMI 2CH 1080p<br>YUAN SC400N4 HDMI 4CH 1080p<br>YUAN SC710N2-L HDMI 2CH 4K<br>YUAN SC410N4 HDMI 4CH 4K<br>Intel 82574 1CH LAN Card<br>Intel I350AM2 2CH LAN Card<br>Intel I210 PoE Card<br>PCIe WIFI 6/6E Module Kit/Set<br>PCIe 5G Module Set |

メディカル  
ビデオマネージャー



| Model Name            | MED-VPR-8430                                                                                                         |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| CPU Memory            | Intel Elkhart Lake x6425E 2.0Ghz (Boost 3.0Ghz) DDR4-16GB Soldered on Board                                          |
| Storage               | 2.5 Inch SATA SSD 1TB<br>M.2 SATA SSD (Expandable)                                                                   |
| Color                 | White                                                                                                                |
| Dimension (W x D x H) | 296 x 296 x 67 mm (Case Only)<br>318 x 316 x 67 mm (All Inclusive)                                                   |
| I/O                   | 4 x 4K HDMI-IN, 2 x 4K HDMI-OUT<br>2 x RJ45, 1 x HDBaseT (100m Extension)<br>2 x RS-232<br>8 x GPIO<br>6 x USB Ports |
| Platform              | Intel x86 & NXP                                                                                                      |
| System Cooling        | Fanless                                                                                                              |
| Software              | Built-in Time Cabinet Software                                                                                       |
| Screen Layout         | Multi-view layout                                                                                                    |
| Button                | System Power on/off                                                                                                  |
| LED                   | Power LED                                                                                                            |
| Power Supply          | 24V/4.17A DC                                                                                                         |
| Operating Temp.       | 0°C ~ 40°C (32°F ~ 104°F)                                                                                            |
| Gross Weight          | 4.3 kg                                                                                                               |

メディカル  
バッテリーシステム



| Model Number               | EPB-1001                                                     |
|----------------------------|--------------------------------------------------------------|
| SBC                        | EPB-1001 Battery Board                                       |
| MCU                        | IT8911                                                       |
| Charger IC                 | LTC1760                                                      |
| Power IC                   | LTC3789 for Vout1                                            |
| DC Input                   | 24Vdc/ 5A                                                    |
| Charge Current             | 4A Max. for 2 Batteries                                      |
| Charge Voltage             | 16.8 V                                                       |
| Output Current Per Battery | 6.8 A                                                        |
| Output Voltage Per Battery | 14.4 V                                                       |
| Output Power               | 12W/ 19V DC-out 80W                                          |
| USB Port                   | Type A                                                       |
| Indicator Light            | Power/ Battery1/ Battery 2                                   |
| Power Connector            | DC Jack with Lock                                            |
| Power Type                 | DC in                                                        |
| Color                      | Black/ White                                                 |
| Dimension                  | 235 x 182 x 43 mm                                            |
| Weight                     | 1.2 kg                                                       |
| Operating Temperature      | 0°C ~ 40°C (32°F ~ 104°F)                                    |
| Storage Temperature        | -40°C ~ 75°C (-40 ~ 167°F)(Without Battery Pack)             |
| Certification              | CE/ FCC<br>ANSI/ AAMI ES 60601<br>CAN/ CSA C22.2 No. 60601-1 |





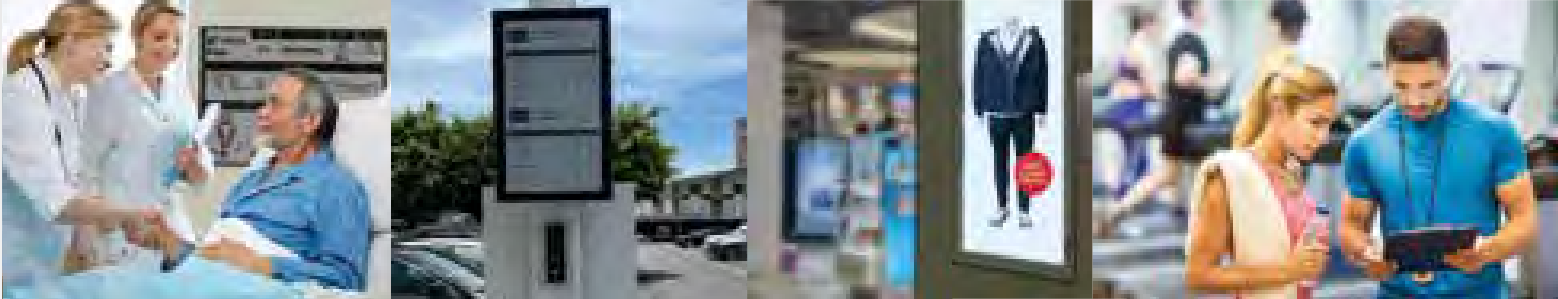
# Digital Paper

- **コミュニケーションボード**
- タッチスクリーン内蔵
- 低消費電力
- 高性能i.MX7デュアルコアプロセッサ搭載
- 表示の保持だけなら電力不要

- **デジタルサイネージ**
- フルフラットパネル搭載
- 屋外、屋内利用可能
- オープンフレーム仕様
- 対応可能(オプション)

- 静電タッチにも対応可能
- フロントライトモジュール(オプション)
- LAN/ Wi-Fi/ LTE サポート
- Windows/ Android サポート

- **E Note (電子ペーパータブレット)**
- 極薄型 & 軽量設計
- 高コントラストパネル搭載
- フル充電で最大3 週間使用可能
- 専属タッチペン付属、書き込み & ハイライト & 消しゴム機能
- 使いやすいA4サイズ



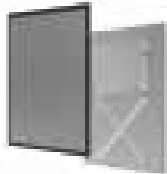
## 電子ペーパー - E Note

Avalueのeノートは、文書のデジタル化をサポートするデジタルペンを搭載しており、長持ちするバッテリーと携帯性が特徴です。紙のような画面と滑らかな書き心地を提供します。



## 電子ペーパー - デジタルサイネージ

AvalueのE-ink公共掲示板ソリューションは、病院向けに低消費電力とデバイスの遠隔更新を実現し、環境に優しいのみならず、コミュニケーションをスムーズかつ効率的に行います。



## 電子ペーパー

節電しつつ、リアルタイムメッセージングでコミュニケーションを強化します。コンテンツ配信を向上させ、情報地域社会に配信します。

# 電子ペーパー - E Note



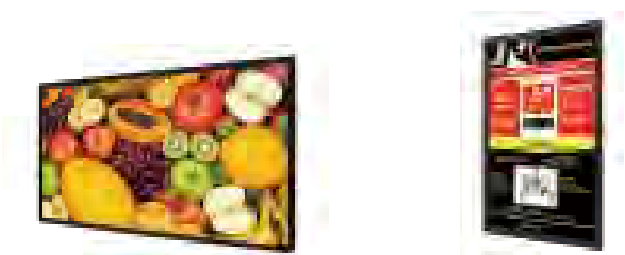
| Model Number           | ENT-13T1                                                 | ENT-10T1                                      |
|------------------------|----------------------------------------------------------|-----------------------------------------------|
| LCD Size               | 13.3"                                                    | 10.3"                                         |
| Resolution             | H: 1650 x V: 2200                                        | H: 1404 x V: 1872                             |
| Viewing Angle          | 180 (U), 180 (D), 180 (L), 180 (R)                       | 180 (U), 180 (D), 180 (L), 180 (R)            |
| Touch Type             | Projective Capacitive                                    | Projective Capacitive                         |
| Processor              | 881AP140A0-BTY2C012TT404 (Cortex-A53 1.2GHz x 4 Core)    | Rockchip RK3566 Quad-core Cortex-A55 @ 1.8GHz |
| System Memory          | 2GB DDR3L                                                | 2GB LPDDR4                                    |
| Wireless               | Wi-Fi/ Bluetooth Module                                  | 2.4G/ 5G Wi-Fi Bluetooth4.2                   |
| Storage                | 16GB eMMC NAND Flash Memory Approx. 10.86GB Free Storage | 64GB EMMC                                     |
| External I/O Connector | 1 x USB                                                  | 1 x USB-C Port                                |
| Power Requirement      | Lithium-Ion Polymer Battery (2000mAh)                    | 3000mAh Li-ion Battery                        |
| Power Type             | ATX                                                      | ATX                                           |
| Operating Temperature  | 5°C ~ 35°C (41°F ~ 95°F)                                 | 0°C ~ 40°C (32°F ~ 104°F)                     |
| Storage Temperature    | 0°C ~ 40°C (32°F ~ 104°F)                                | -20°C ~ 50°C                                  |
| Operating Humidity     | 40°C @ 95% Relative Humidity, Non-condensing             | 40°C @ 95% Relative Humidity, Non-condensing  |
| Software Support       | Android 5.1                                              | Android 11                                    |
| Dimension              | 302.6 x 224 x 5.7 mm                                     | 230.6 x 183 x 5.3mm,                          |
| Weight                 | 0.352 kg                                                 | 390g                                          |
| Certification          | FCC, VCCI                                                | CE, FCC Class B, VCCI, TELEC                  |

電子ペーパー - デジタルサイネージ



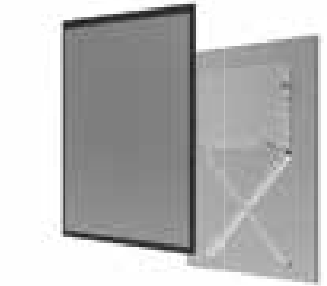
| Model Number           | EPD-42T                                                                                         | EPD-4200                                        | EPD-3133                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Size               | 42"                                                                                             | 42"                                             | 31.2"                                                                                                                                    |
| Resolution             | H: 2160 x V: 2880                                                                               | H: 2160 x V: 2880                               | H: 2560 x V: 1440                                                                                                                        |
| Viewing Angle          | 180 (U), 180 (D), 180 (L), 180 (R)                                                              | 180 (U), 180 (D), 180 (L), 180 (R)              | 180 (U), 180 (D), 180 (L), 180 (R)                                                                                                       |
| Touch Type             | Projective Capacitive                                                                           | Cover Lens Only                                 | Projective Capacitive                                                                                                                    |
| Processor              | NXP i.MX 7 Dual Processor/ Dual Arm® Cortex®-A7 Cores and Cortex-M4                             | N/A                                             | Onboard Intel® Celeron® SoC BGA Processor N3350 (Apollo Lake Platform)                                                                   |
| System Memory          | On-Board 2GB DDR3L                                                                              | N/A                                             | 1 x 204-Pin DDR3L 1866MTs SO-DIMM Up to 8GB                                                                                              |
| Wireless               | M.2 Wi-Fi/ Bluetooth Module (Optional)                                                          | N/A                                             | mPCIe Wi-Fi/ Bluetooth Module (Optional)                                                                                                 |
| Storage                | On-Board 8GB eMMC                                                                               | N/A                                             | 2.5" SATA3 SSD 64GB                                                                                                                      |
| External I/O Connector | 2 x USB 2.0 (Edge I/O)<br>1 x Micro USB for USB OTG<br>1 x RJ-45 Connector for Gigabit Ethernet | 1 x USB 1.1                                     | 4 x USB 3.1 (Gen1 5Gbps)<br>1 x DB-9 Male Connector for COM1<br>2 x RJ45 LAN Port<br>2 x HDMI (1.4b): Max. Resolution 3840 x 2160 @ 30Hz |
| Power Requirement      | DC +12V                                                                                         | DC +12V                                         | DC +19V                                                                                                                                  |
| Power Type             | AT                                                                                              | N/A                                             | AT/ ATX                                                                                                                                  |
| Operating Temperature  | 0°C ~ 40°C (32°F ~ 104°F)                                                                       | 0°C ~ 50°C (32°F ~ 122°F)                       | 0°C ~ 50°C (32°F ~ 122°F)                                                                                                                |
| Storage Temperature    | -20 ~ 60°C (-4 ~ 140°F)                                                                         | -20 ~ 60°C (-4 ~ 140°F)                         | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                              |
| Operating Humidity     | 40°C @ 95% Relative Humidity, Non-condensing                                                    | 40°C @ 95% Relative Humidity, Non-condensing    | 40°C @ 95% Relative Humidity, Non-condensing                                                                                             |
| Software Support       | Android 5.1 (Default)<br>Linux 4.15 (Yocto 2.1)                                                 | N/A                                             | Android 8.1 (Default)<br>Windows 10 IoT                                                                                                  |
| Dimension              | 918.8 x 704.6 x 37.6 mm                                                                         | 934.2 x 704.6 x 39 mm                           | 750 x 445 x 36.7 mm                                                                                                                      |
| Weight                 | 7.5 kg                                                                                          | 11.4 kg                                         | 7.2 kg                                                                                                                                   |
| Certification          | CE, FCC Class B                                                                                 | FCC Class B & CE (EN 55032 & 55035) ESD Level 3 | CE, FCC Class A                                                                                                                          |

電子ペーパー - デジタルサイネージ



| EPD-3150                                     | EPD-2501                                                               |
|----------------------------------------------|------------------------------------------------------------------------|
| 31.5"                                        | 25.3"                                                                  |
| H: 2560 x V: 1440                            | H:3200 x V:1800                                                        |
| 180 (U), 180 (D), 180 (L), 180 (R)           | 180 (U), 180 (D), 180 (L), 180 (R)                                     |
| Cover Lens Only                              | Cover Lens Only                                                        |
| All winner B810                              | Onboard Intel® Celeron® SoC BGA Processor N3350 (Apollo Lake Platform) |
| On-Board LPDDR4 4GB                          | 1 x 204-Pin DDR3L 1866MTs SO-DIMM up to 8GB                            |
| Wi-Fi                                        | mPCIe Wi-Fi/ Bluetooth Module (Optional)                               |
| 32GM eMMC<br>micro SD card                   | 2.5" SATA3 SSD 64GB                                                    |
| USB-C port<br>SD card                        | 2 x HDMI<br>1 x COM<br>2 x LAN<br>4 x USB 3.1 (Gen1)                   |
| DC +12V                                      | DC +12V                                                                |
| ATX                                          | AT/ ATX                                                                |
| 0°C ~ 50°C (32°F ~ 122°F)                    | 0°C ~ 40°C (32°F ~ 104°F)                                              |
| -20°C ~ 60°C (-4°F ~ 140°F)                  | -20°C ~ 60°C (-4 ~ 140°F)                                              |
| 40°C @ 95% Relative Humidity, Non-condensing | 40°C @ 90% Relative Humidity, Non-condensing                           |
| Android 12                                   | Android 8.1 (Default)<br>Windows 10 IoT                                |
| 707.9 *413.2 *23.5 mm                        | 607 x 350 x 38.8 mm                                                    |
| 5 kg                                         | 4.4 kg                                                                 |
| CE, FCC Class A                              | CE, FCC Class B                                                        |

電子ペーパー - 屋外表示ソリューション



| Model Number           | EPD-4200-B1                                  |
|------------------------|----------------------------------------------|
| LCD Size               | 42"                                          |
| Resolution             | H: 2160 x V: 2880                            |
| Viewing Angle          | 180 (U), 180 (D), 180 (L), 180 (R)           |
| Touch Type             | Cover Lens Only                              |
| Processor              | N/A                                          |
| System Memory          | N/A                                          |
| Wireless               | N/A                                          |
| Storage                | N/A                                          |
| External I/O Connector | 1 x USB 1.1                                  |
| Power Requirement      | DC +12V                                      |
| Power Type             | N/A                                          |
| Operating Temperature  | -15°C ~ 65°C                                 |
| Storage Temperature    | -20°C ~ 70°C (-4 ~ 158°F)                    |
| Operating Humidity     | 40°C @ 95% Relative Humidity, Non-condensing |
| Software Support       | N/A                                          |
| Dimension              | 676 x 910 x 58 mm                            |
| Weight                 | 12 kg                                        |
| Certification          | CE, FCC Class A                              |

# Tailored to Your Needs



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