



Features

- Intel® Celeron® Processor J3455/N3350
- Single DRAM Socket, Max. Up to 8GB DDR3 1866MHz
- Rich I/O, 1 x COM, 2 x HDMI, 2 x LAN, 4 x USB3.0, 1 x Audio, 2 x Antenna Mounting
- Expansion Slot, M.2 Key-B, M.2 Key-E
- Fanless Operating from 0°C ~ 50°C
- DC Power Input +12V
- Compact Size, 115mm x 111mm x 45mm
- Supports VESA/Din-Rail Kit
- TPM 2.0 (Factory Option)



2-Display
HDMI



Compact Size
115x111x45mm



Rugged
Design
5G/55G



-10°C~50°C



No Vents

Specifications

System Information

Processor	Intel® Celeron® Processor J3455 (2M Cache, up to 2.3 GHz) Intel® Celeron® Processor N3350 (2M Cache, up to 2.4 GHz)
System Memory	1 x 204-pin SO-DIMM Socket, Max, Up to 8GB DDR3L 1866MHz
BIOS Information	AMI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU Temperature, Voltage with Auto Throttling Control
SBC	NCM-APL

Expansion

M.2	1 x M.2 (Key-B, 2242/3042, PCIe, SATA, USB 3.0, USB 2.0) 1 x M.2 (Key-E, 2230, PCIe, USB2.0)
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Storage

M.2	1 x M.2 (Key-B, 2242, SATA)
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Front I/O

USB	2 x USB 3.0 (5Gbps)
LED Indicator	1 x Power on/off LED & Storage Access LED on front side
Audio	1 x Audio Jack (Mic-in + Line-Out Combo)
HDMI	2 x HDMI 1.4b

Rear I/O

USB	2 x USB 3.0 (5Gbps)
COM Port	1 x RS-232/422/485 (BIOS & Cable)
LAN Port	2 x RJ45
AC/DC Input	1 x Lockable DC Jack

Right I/O

Antenna	2 x Antenna Mounting with Dust Cover
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Display

Graphic Chipset	Intel® HD Graphics 500
Resolution	2 x HDMI 1.4b: Max. Resolution 3840 x 2160@30Hz *1 x DP/DVI-I/VGA (Factory Option): Max. Resolution 1920 x 1080@60Hz *DP/DVI-I/VGA is an option which will replace the location of COM.

Audio

Audio Codec	Realtek ALC888S
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Ethernet

LAN Chipset	Realtek RTL8119I
Specification	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Power Requirement

Adapter	Input: 100 ~ 240Vdc / 50 ~ 60Hz Output: 12V/5A AC-DC 60W Adapter
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)

Software Support

OS	Win 10, Linux
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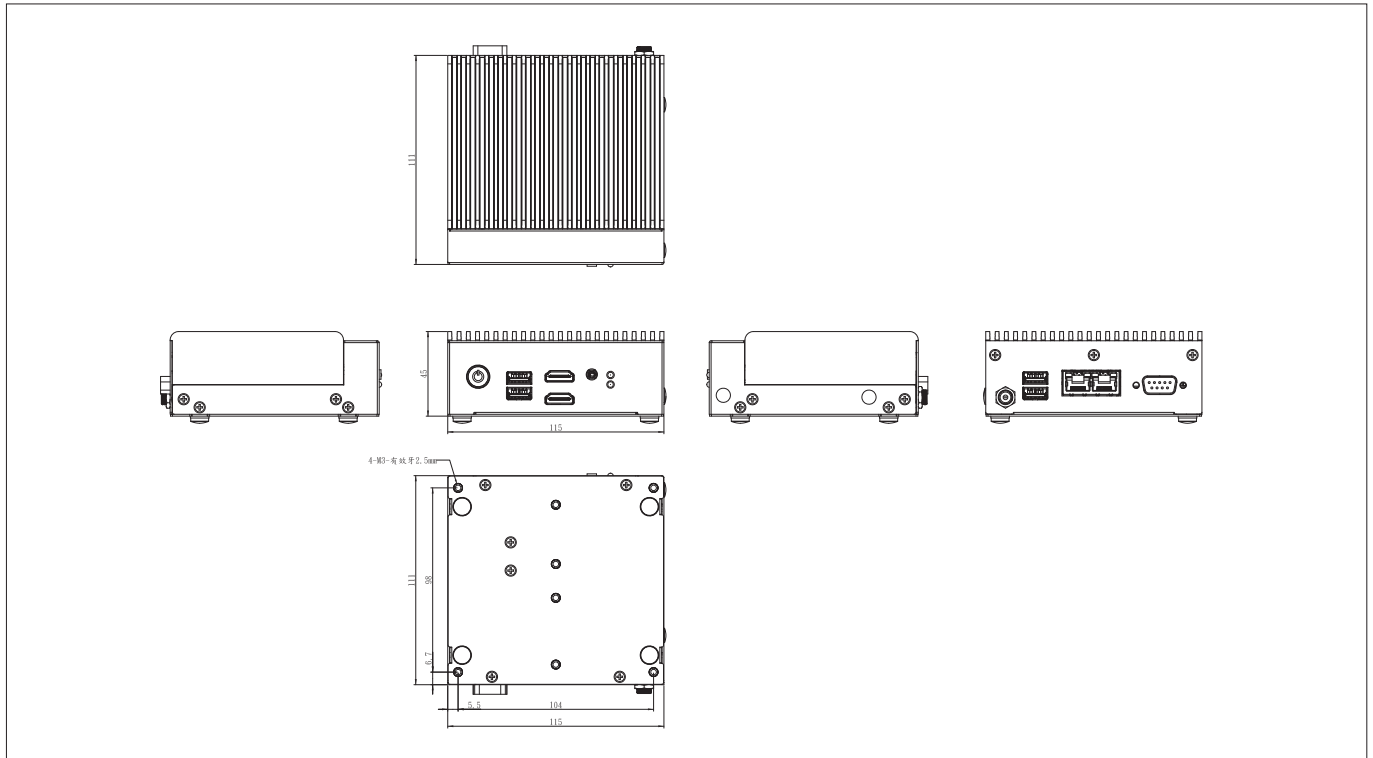
Certification

Certification Information	CE, FCC Class A, UKCA
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Mechanical & Environmental

Operating Temp.	-10°C ~ 40°C (14°F ~ 104°F) with 0.2m/s air flow -10°C ~ 50°C (14°F ~ 122°F) with 0.5m/s air flow
Storage Temp.	-30 ~ 70°C (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	115mm x 111mm x 45mm (4.53" x 4.37" x 1.77")
Weight	0.72KG (1.59lbs)
Vibration Test	With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis
Shock Test	With SDD : 55G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
Mounting Kit	VESA/Din Rail Kit

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Adapter	Mounting Kit	I/O Ports (COM/USB/LAN)	Display Output	Power Input	Working Temp.	OS Support
NUC-APL-34-B1-2R	Intel® Celeron® Processor J3455	4GB DDR3L	12V/5A	VESA/Din Rail	1/4/2	HDMI	+12V DC in	0°C ~ 50°C	Windows 10/11 Linux
NUC-APL-33-B1-2R	Intel® Celeron® Processor N3350	4GB DDR3L	12V/5A	VESA/Din Rail	1/4/2	HDMI	+12V DC in	0°C ~ 50°C	Windows 10/11 Linux

Packing List

Item	Quantity
NUC-APL Slim System	1
AC/DC Adapter 12V/5A	1
Vesa Mount	1
Din Rail Kit	1
Screw Kit for Peripherals	1

Optional Items

Item	P/N
Power Cord 3P (F)-3P (M) 183cm, USA Type	E1702031833R
Power Cord SL-6+SL-3 183cm, EU Type	E1702031000R
Power Cord 3P (F)-3P (M) 183cm, Japan w/PSE Type	E1702031834R
Power Cord QP-026+SL-3 183cm, UK Type	E170P060380R
Power Cord 3P (F)-3P (M) 183cm, Australia Type	E1702031831R

I/O Overview

