

# SPC-1533-B1

15" Intel® Celeron® Processor J3455 Fanless Stainless Steel Chassis Touch Panel PC with Full IP-66 & IP-69K



## Features

- Intel® Celeron® Processor J3455
- Projective capacitive touchscreen full flat design
- Waterproof power button
- Rich and swappable I/O, 1 x LAN, 2 x USB, 1 x COM by M12 8-pin(male) with waterproof cover and chain
- IP66 air pressure relief valve
- Metal waterproof connectors
- Wide range DC in +12V ~ +24V
- Wide temperature -10°C ~ 50°C
- Full system IP66, IP69K
- Multiple OS support (Win10, Linux, Android)
- Optional WiFi/BT with waterproof antenna
- Optional auto dimming / high brightness solution



+12V ~ +24V



PCAP  
multi-touch



Fanless



Wide Temp.  
-10°C ~ 50°C



Full  
IP66/ IP69K

## Specifications

### System Information

|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| Processor               | Intel® Celeron® Processor J3455, 2M Cache, up to 2.30 GHz              |
| Platform Controller Hub | Intel Apollo Lake SoC integrated                                       |
| System Memory           | 2 x 204-pin DDR3L 1600MT/s SO-DIMM up to 16 GB                         |
| I/O Chipset             | EC ITE IT8528E                                                         |
| Watchdog Timer          | H/W reset, 1sec. ~ 65535sec./1sec.step                                 |
| H/W Status Monitor      | Monitoring system temperature and voltage with auto throttling control |
| SBC                     | EMX-APLP                                                               |
| CPU Cooler (Type)       | Fanless heatsink                                                       |
| Other                   | 1 x WiFi with waterproof antenna(optional)                             |

### Expansion

|           |                                          |
|-----------|------------------------------------------|
| Expansion | 1 x M.2 (2230) A-Key support WiFi module |
|-----------|------------------------------------------|

### Storage

|                      |                                          |
|----------------------|------------------------------------------|
| Storage              | Default with 64GB mSATA                  |
| Other Storage Device | 1 x 2.5 Drive bay for SSD/HDD(by option) |

### Display

|                    |                                                                                 |
|--------------------|---------------------------------------------------------------------------------|
| Graphic Chipset    | Intel® HD graphics 500                                                          |
| Spec. & Resolution | LVDS: Max. Resolution 1920x1080 @ 60Hz<br>eDP: Max. Resolution 4096x2160 @ 60Hz |

### Audio

|             |                |
|-------------|----------------|
| Audio Codec | Realtek ALC662 |
|-------------|----------------|

### Ethernet

|                    |                                    |
|--------------------|------------------------------------|
| LAN Chipset        | 2 x Intel I211AT Gigabit Ethernet  |
| Ethernet Interface | 10/100/1000 Base-Tx GbE compatible |

### Power Requirement

|          |                                                                |
|----------|----------------------------------------------------------------|
| DC Input | +12V ~ +24V                                                    |
| ACPI     | Single power ATX support S0, S3, S4, S5 and ACPI 3.0 compliant |

### Software Support

|    |                             |
|----|-----------------------------|
| OS | Win10 / Linux / Android 8.1 |
|----|-----------------------------|

### Certification

|                           |                  |
|---------------------------|------------------|
| Certification Information | CE / FCC Class A |
|---------------------------|------------------|

### Panel

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| LCD Size                 | 15", 4:3                                          |
| Display Type             | XGA                                               |
| Resolution               | 1024 x 768                                        |
| Pixel Pitch              | 0.297mm(H) x 0.297mm(V)                           |
| Luminance                | 300 cd/m2                                         |
| Contrast Ratio           | 2000                                              |
| Viewing Angle            | 88(U), 88(D), 88(L), 88(R)                        |
| Response Time            | 16 ms                                             |
| Backlight                | LED                                               |
| Touch Type               | Projective capacitive multi-touch up to 10 points |
| Touch Light Transmission | 85%                                               |
| Touch Controller         | ILITEK COF touch                                  |

### External I/O

|          |                                                                               |
|----------|-------------------------------------------------------------------------------|
| USB      | 2 x M12 8-pin (male) for 2 x USB 2.0 with waterproof cover and chain          |
| LAN Port | 1 x RJ-45 8-pin (male) for LAN with waterproof cover and chain                |
| COM Port | 1 x M12 8-pin (male) for COM (RS-232/422/485) with waterproof cover and chain |

### Internal I/O

|      |              |
|------|--------------|
| SATA | 1 x SATA III |
|------|--------------|

### System Control

|               |                    |
|---------------|--------------------|
| LED Indicator | HDD LED, power LED |
|---------------|--------------------|

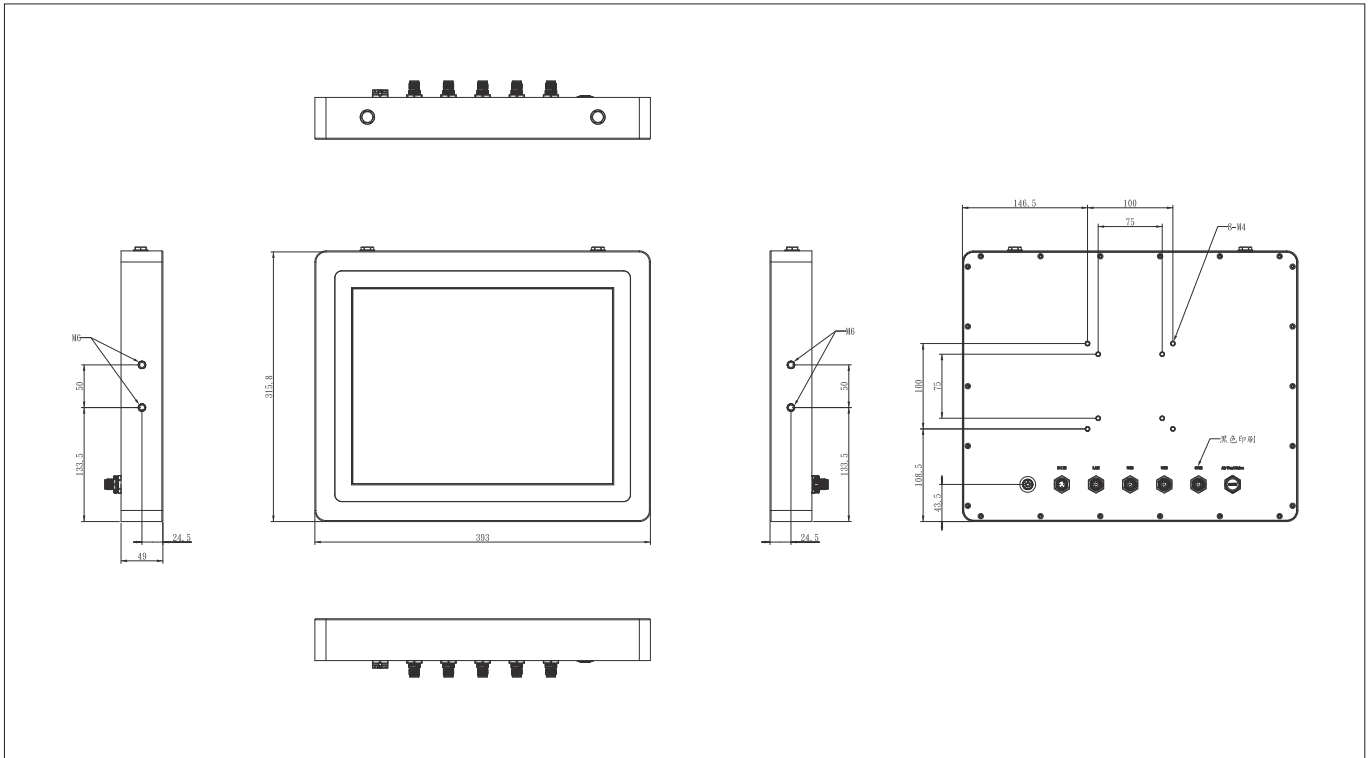
### Mechanical & Environmental

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Operating Temp.       | -10°C ~ 50°C (14°F ~ 122°F), by flow = 0.5                              |
| Storage Temp.         | -20°C ~ 60°C (-4°F ~ 140°F)                                             |
| Operating Humidity    | 40°C @ 95% Relative humidity, non-condensing                            |
| Dimension (W x L x H) | 393 x 315.8 x 49mm                                                      |
| Weight                | 5.7 Kg                                                                  |
| Vibration Test        | With SSD/mSATA : 1.5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 30min/axis |
| Shock Test            | With CF/SSD : 10Grms, IEC 60068-2-27, half sine, 11ms                   |
| Drop Test             | ISTA 2A, IEC-60068-2-32 Test:Ed                                         |
| Mounting Kit          | Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm                          |
| Power Mode            | AT/ATX (ATX is default)                                                 |
| System Fan            | Fanless                                                                 |
| Construction          | Stainless steel (Front), Stainless steel (Rear)                         |

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Chassis Touch Panel PC with Full IP-66 & IP-69K

## Mechanical Drawing



## Ordering Information

| P/N              | Touch Type | Processor | Memory                             | Storage                                                           | Resolution | Luminance | COM | USB | LAN | Power Input | Operating Temp. | OS Support                  |
|------------------|------------|-----------|------------------------------------|-------------------------------------------------------------------|------------|-----------|-----|-----|-----|-------------|-----------------|-----------------------------|
| SPC-1533-345-B1R | PCAP       | J3455     | 2 x 204-pin DDR3L 1600MT/s SO-DIMM | Default with 64GB mSATA 1 x 2.5 Drive bay for SSD/HDD (by option) | 1024 x 768 | 300       | 1   | 4   | 1   | +12V ~ +24V | -10°C ~ 50°C    | Win10 / Linux / Android 8.1 |

## Packing List

| Item                    | P/N             | Quantity |
|-------------------------|-----------------|----------|
| M4 x 6mm Screw for VESA | ACC-SCREW-0002R | 4        |
| M3 x 4mm Screw for HDD  | ACC-SCREW-0003R | 4        |

## Optional Items

| Item                                                      | P/N              |
|-----------------------------------------------------------|------------------|
| VESA STAND, 75mm & 100 mm                                 | ACC-ARM-D1R      |
| VESA STAND, 75mm & 100 mm                                 | ACC-ARM-D23R     |
| AC/DC adapter 24V/2.5A 90 Plug Type                       | ACC-ADP-060N-08R |
| Suggest DC Jack to M12 cable E170W050030R                 | E1702031833R     |
| (Waterproof M12 DC Cable) when adapter needed)            | ACC-ADP-060N-09R |
| Wifi Kit for SPC-xx33/38-B1/M.2 WIFI intel 9260/2 Antenna | ACC-SPC-WIFI-03R |
| Waterproof M12 DC Cable                                   | E170W050030R     |
| Waterproof M12 USB Cable                                  | E170W160030R     |
| Waterproof M12 Lan Cable                                  | E170W160040R     |
| Waterproof M12 COM Cable                                  | E170W170010R     |
| USA Power Cord                                            | E1702031833R     |
| EU Power Cord                                             | E1702031000R     |
| Japan Power Cord                                          | E1702031834R     |
| UK Power Cord                                             | E1702031830R     |
| Australia Power Cord                                      | E1702031831R     |

## I/O Overview

