



## SPC-1533-B1

15" Apollo Lake SoC Mobile Processor Fanless  
Stainless Steel Chassis Touch Panel PC with Full  
IP-66 & IP-69K

- > Intel® Apollo Lake SoC with Integrated Chipset
- > 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

### Spec

| -System Information-      |                                                                                 |
|---------------------------|---------------------------------------------------------------------------------|
| Processor                 | Intel® Celeron® Processor J3455                                                 |
| Platform Controller Hub   | Intel Apollo Lake SoC integrated                                                |
| System Memory             | 2 x 204-pin DDR3L 1600MTs 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          |
| TPM                       | Option for Infineon SLB9665 TPM 2.0                                             |
| SBC                       | EMX-APLP                                                                        |
| 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)                                       |
| Panel                     |                                                                                 |
| LCD Size                  | 15", 4:3                                                                        |
| Display Type              | XGA                                                                             |
| Resolution                | 1024x768                                                                        |
| 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             | 16ms                                                                            |
| Backlight                 | LED                                                                             |
| Touch Type                | Projective Capacitive                                                           |
| Touch Light Transmission  | 85%                                                                             |
| Touch Controller          | ILITEK COF Touch                                                                |
| I/O                       |                                                                                 |
| USB Port                  | 2 x M12 8-pin (male) for 2 x USB 2.0 with waterproof cover and chain            |
| COM Port                  | 1 x M12 8-pin (male) COM(RS-232/422/485) with waterproof cover and chain        |
| SATA                      | 1 x SATA III                                                                    |
| Other                     | 1 x WiFi with waterproof antenna (Optional)                                     |
| 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 supports 2-CH                                                    |
| Certifications            |                                                                                 |
| Certification Information | CE<br>FCC Class A                                                               |
| Ethernet                  |                                                                                 |
| LAN Chipset               | 2 x Intel I211AT Gigabit Ethernet                                               |
| Ethernet Interface        | 10/100/1000 Base-Tx GbE compatible                                              |
| LAN Port                  | 1 x M12 8-pin (male) for LAN with waterproof cover and chain                    |
| Power Requirement         |                                                                                 |
| DC Input                  | +12V ~ +24V                                                                     |
| DC Input Connector        | 1 x M12 3-pin (male) for DC power with waterproof cover and chain               |

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|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Adapter</b>                        | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (24V @ 2.5A Adapter) AC-DC Adapter (Need waterproof M12/3Pin- D2.5DC Jack-Plug 200cm cable for M12 DC in connector)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Mechanical &amp; Environmental</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Operating Temperature</b>          | -10°C ~ 50°C (14°F ~ 122°F), by flow = 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage Temperature</b>            | -20°C ~ 60°C (-4°F ~ 140°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Operating Humidity</b>             | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Weight</b>                         | 5.7 Kgs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Vibration Test</b>                 | With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Shock Test</b>                     | With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>IP Rating</b>                      | Whole System IP69K, IP66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Mounting Kit</b>                   | Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Power Mode</b>                     | AT/ATX (ATX is default setting)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>System Fan</b>                     | Fanless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Construction - Front</b>           | Silver Stainless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Construction - Rear</b>            | Silver Stainless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Dimension</b>                      | 393 x 315.8 x 49 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Software Support</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>OS Information</b>                 | Win10<br>Linux<br>Android x86 8.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Ordering Information</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Ordering Information</b>           | SPC-1533-345-B1R<br>15" 1024 x 768 Full IP-66 Stainless Steel panel PC/PCap/IP-69K/ (F1 Stepping CPU) intel<br>J3455/4GR/64GmSATA/5M12(LAN/2x2USB/COM/DCin)/Vent/Valve/EMX-APLP/without Adapter<br><br>ACC-ARM-D1R<br>VESA STAND, 75mm & 100 mm<br><br>ACC-ARM-D23R<br>VESA STAND, 75mm & 100 mm<br><br>ACC-ADP-060N-09R<br>AC/DC adapter 24V/2.5A 90 Plug Type<br>*(Suggest DC Jack to M12 cable "E170W050030R (Waterproof M12 DC Cable)" when adapter needed)<br><br>E170W050030R<br>Waterproof M12 DC Cable<br><br>E170W160030R<br>Waterproof M12 USB Cable<br><br>E170W160040R<br>Waterproof M12 Lan Cable<br><br>E170W170010R<br>Waterproof M12 COM Cable<br><br>E1702031833R USA Power Cord<br><br>E1702031000R EU Power Cord<br><br>E1702031834R Japan Power Cord<br><br>E1702031830R UK Power Cord<br><br>E1702031831R Australia Power Cord |

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