



### SPC-2133

21.5" Apollo Lake SoC Mobile Processor Fanless Stainless Steel Chassis Touch Panel PC with Full IP-65 & IP-X9K

- > Onboard Intel® Apollo Lake SoC with Integrated Chipset
- > One 204-pin DDR3L SODIMM Socket Supports Up to 8GB
- > Rich I/O 3 x USB, 1 x COM(DB9), 1 x LAN
- > Metal Waterproof Connectors
- > Wide Voltage +12V ~ +26V Input, ErP Power
- > Optional WiFi/ High brightness solution
- > Full System IP65 & IPX9K
- > Fanless Operation

**+** Spec

| -System Information-             |   |
|----------------------------------|---|
| <b>Processor</b>                 | Onboard Intel® Apollo Lake Mobile Processor   |
| <b>Platform Controller Hub</b>   | Intel Apollo Lake SoC integrated  |
| <b>System Memory</b>             | 1 x 204-pin DDR3L 1600MTs SO-DIMM   |
| <b>I/O Chipset</b>               | EC ITE IT8528E  |
| <b>Watchdog Timer</b>            | H/W Reset, 1sec. ~ 65535sec./1sec.step  |
| <b>H/W Status Monitor</b>        | Monitoring System Temperature and Voltage with Auto Throttling Control  |
| <b>SBC</b>                       | EBM-APL   |
| Expansion                        |   |
| <b>Expansion</b>                 | 1 x Mini PCIe   |
| Storage                          |   |
| <b>Storage</b>                   | 1 x 2.5" Drive Bay  |
| Panel                            |   |
| <b>LCD Size</b>                  | 21.5"   |
| <b>Display Type</b>              | WSXGA   |
| <b>Resolution</b>                | 1920x1080   |
| <b>Pixel pitch</b>               | 248.25um(H) x 248.25um(V)   |
| <b>Luminance</b>                 | 250 cd/m <sup>2</sup>   |
| <b>Contrast ratio</b>            | 3000  |
| <b>Viewing angle</b>             | 89 (U), 89 (D), 89 (L), 89 (R)  |
| <b>Response time</b>             | 18 ms   |
| <b>Backlight</b>                 | LED   |
| <b>Touch Type</b>                | Projective Capacitive   |
| <b>Touch Light Transmission</b>  | 89%   |
| <b>Touch Controller</b>          | Onboard USB touch (EETI)  |
| I/O                              |   |
| <b>USB Port</b>                  | 3 x Waterproof USB 3.0  |
| <b>COM Port</b>                  | 1 x Waterproof COM(DB9, RS-232/422/485)   |
| <b>SATA</b>                      | 1 x SATA III  |
| <b>Other</b>                     | 1 x WiFi (Optional)   |
| Display                          |   |
| <b>Graphic Chipset</b>           | Intel® Apollo Lake SoC integrated Graphics<br>Supports dual display   |
| <b>Spec. &amp; Resolution</b>    | HDMI: Max. resolution 3840x2160 @ 30Hz<br>LVDS: Max. resolution 1920x1080 @ 60Hz<br>eDP: Max. resolution 4096x2160 @ 60Hz |
| Audio                            |   |
| <b>Audio Codec</b>               | Realtek ALC888S   |
| <b>Audio Interface</b>           | Line-Out  |
| <b>Speaker Output</b>            | 2 x 5W  |
| Certifications                   |   |
| <b>Certification Information</b> | CE<br>FCC Class A   |
| Ethernet                         |   |
| <b>LAN Chipset</b>               | 2 x Intel® I211AT   |
| <b>Ethernet Interface</b>        | 10/100/1000 Base-Tx GbE compatible  |
| <b>LAN Port</b>                  | 2 x Waterproof RJ-45  |
| Power Requirement                |   |

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|                           |                             |
|---------------------------|-----------------------------|
| <b>DC Input Connector</b> | Lockable Waterproof DC Jack |
|---------------------------|-----------------------------|

|                                       |  |
|---------------------------------------|--|
| <b>Adapter</b>                        | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter   |
| <b>Mechanical &amp; Environmental</b> |  |
| <b>Operating Temperature</b>          | 0°C ~ 40°C (32°F ~ 104°F)  |
| <b>Storage Temperature</b>            | -10°C ~ 60°C (14°F ~ 140°F)  |
| <b>Operating Humidity</b>             | 0% ~ 90% Relative Humidity, Non-condensing   |
| <b>Weight</b>                         | 9 Kgs  |
| <b>Vibration Test</b>                 | With SSD/mSATA : 1.5Gms, 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>Mounting Kit</b>                   | Wall / Stand / VESA 100mm x 100mm  |
| <b>Dimensions(W x L x D)</b>          | 595 x 386 x 58mm   |
| <b>Power Requirement</b>              | +12V ~ +26V  |
| <b>Power Mode</b>                     | AT/ATX (ATX is default setting)  |
| <b>System Fan</b>                     | Fanless  |
| <b>Construction - Front</b>           | Stainless Steel  |
| <b>Construction - Rear</b>            | Stainless Steel  |
| <b>Software Support</b>               |  |
| <b>OS Information</b>                 | Win10<br>Linux   |
| <b>Ordering Information</b>           |  |
| <b>Ordering Information</b>           | SPC-2133-335-A2R<br>21.5" 1920 x 1080 Full IP-65 Stainless Steel Panel PC w/PCAP Touch/IP-69K Intel Celeron N3350 (F1-CPU)/4GR/32GSSD/LAN/3USB/COM(DB9)/Speakers<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-SPC-WIFI-1R<br>Wifi Kits for SPC-15/17/22 802.11b/g/n MPCle/2Antenna/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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### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660