



### SPC-2133-B1

21.5" 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 ~ 45°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-	
<b>Processor</b>	Intel® Celeron® Processor J3455
<b>Platform Controller Hub</b>	Intel Apollo Lake SoC integrated
<b>System Memory</b>	2 x 204-pin DDR3L 1600MTs SO-DIMM up to 16 GB
<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>TPM</b>	Option for Infineon SLB9665 TPM 2.0
<b>SBC</b>	EMX-APLP
Expansion	
<b>Expansion</b>	1 x M.2 (2230) A-Key support WiFi module
Storage	
<b>Storage</b>	Default with 64GB mSATA
<b>Other Storage Device</b>	1 x 2.5" Drive Bay for SSD/HDD(by option)
Panel	
<b>LCD Size</b>	21.5", 16:9
<b>Display Type</b>	Full HD
<b>Resolution</b>	1920x1080
<b>Pixel pitch</b>	247.95 x 247.95
<b>Luminance</b>	250 cd/m <sup>2</sup>
<b>Contrast ratio</b>	1000
<b>Viewing angle</b>	89 (U), 89 (D), 89(L), 89 (R)
<b>Response time</b>	22ms
<b>Backlight</b>	LED
<b>Touch Type</b>	Projective Capacitive
<b>Touch Light Transmission</b>	85%
<b>Touch Controller</b>	EETI 80H84
I/O	
<b>USB Port</b>	2 x M12 8-pin (male) for 2 x USB 2.0 with waterproof cover and chain
<b>COM Port</b>	1 x M12 8-pin (male) COM(RS-232/422/485) with waterproof cover and chain
<b>SATA</b>	1 x SATA III
<b>Other</b>	1 x WiFi with waterproof antenna (Optional)
Display	
<b>Graphic Chipset</b>	Intel® HD Graphics 500
<b>Spec. &amp; Resolution</b>	LVDS: Max. resolution 1920x1080 @ 60Hz eDP: Max. resolution 4096x2160 @ 60Hz
Audio	
<b>Audio Codec</b>	Realtek ALC662 supports 2-CH
Certifications	
<b>Certification Information</b>	CE FCC Class A
Ethernet	
<b>LAN Chipset</b>	2 x Intel I211AT Gigabit Ethernet
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	1 x M12 8-pin (male) for LAN with waterproof cover and chain
Power Requirement	
<b>DC Input</b>	+12V ~ +24V
<b>DC Input Connector</b>	1 x M12 3-pin (male) for DC power with waterproof cover and chain

<b>Adapter</b>	Input: 100 ~ 240Vac/ 50 ~ 60Hz 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 ~ 45°C (14°F ~ 113°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>	9.4 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 , 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>	562 x 365.8 x 49 mm
<b>Software Support</b>	
<b>OS Information</b>	Win10 Linux Android x86 8.1
<b>Ordering Information</b>	
<b>Ordering Information</b>	<p>SPC-2133-345-B1R 21.5" 1920 x 1080 Full IP-66 Stainless Steel panel PC/PCap/IP-69K/ (F1 Stepping CPU) intel J3455/4GR/64GmSATA/5M12(LAN/2x2USB/COM/DCin)/VentValve/EMX-A/PLP/without Adapter</p> <p>ACC-ARM-D1R VESA STAND, 75mm &amp; 100 mm</p> <p>ACC-ARM-D23R VESA STAND, 75mm &amp; 100 mm</p> <p>ACC-ADP-060N-09R AC/DC adapter 24V/2.5A 90 Plug Type *(Suggest DC Jack to M12 cable "E170W050030R (Waterproof M12 DC Cable)" when adapter needed)</p> <p>E170W050030R Waterproof M12 DC Cable</p> <p>E170W160030R Waterproof M12 USB Cable</p> <p>E170W160040R Waterproof M12 Lan Cable</p> <p>E170W170010R Waterproof M12 COM Cable</p> <p>E1702031833R USA Power Cord</p> <p>E1702031000R EU Power Cord</p> <p>E1702031834R Japan Power Cord</p> <p>E1702031830R UK Power Cord</p> <p>E1702031831R Australia Power Cord</p>

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### 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