



## 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>	EETI80H84
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- D2.5DCJack-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>	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-APLP/without Adapter  ACC-ARM-D1R VESA STAND, 75mm & 100 mm  ACC-ARM-D23R VESA STAND, 75mm & 100 mm  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)  E170W050030R Waterproof M12 DC Cable  E170W160030R Waterproof M12 USB Cable  E170W160040R Waterproof M12 Lan Cable  E170W170010R Waterproof M12 COM Cable  E1702031833R USA Power Cord  E1702031000R EU Power Cord  E1702031834R Japan Power Cord  E1702031830R UK Power Cord  E1702031831R Australia Power Cord