



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-	
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	21.5", 16:9
Display Type	Full HD
Resolution	1920x1080
Pixel pitch	247.95 x 247.95
Luminance	250 cd/m²
Contrast ratio	1000
Viewing angle	89 (U), 89 (D), 89(L), 89 (R)
Response time	22ms
Backlight	LED
Touch Type	Projective Capacitive
Touch Light Transmission	85%
Touch Controller	EETI 80H84
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 eDP: Max. resolution 4096x2160 @ 60Hz
Audio	
Audio Codec	Realtek ALC662 supports 2-CH
Certifications	
Certification Information	CE 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

www.avalue.com.tw



Adapter	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)
Mechanical & Environmental	
Operating Temperature	-10°C ~ 45°C (14°F ~ 113°F), by flow = 0.5
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	9.4 Kgs
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
IP Rating	Whole System IP69K, IP66
Mounting Kit	Wall / Stand / VESA , 100mm x 100mm
Power Mode	AT/ATX (ATX is default setting)
System Fan	Fanless
Construction - Front	Silver Stainless
Construction - Rear	Silver Stainless
Dimension	562 x 365.8 x 49 mm
Software Support	
OS Information	Win10 Linux Android x86 8.1
Ordering Information	
Ordering Information	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

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

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

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