

SPC-2142

21.5" 13th Generation Intel® Core™ 3/5/7 Processors Fanless Stainless Steel Chassis
Touch Panel PC with Full IP-66 & IP-69K



Product Features

- Intel® 13th Gen Raptor Lake-PS Core™ 3/5/7 Processor (LGA1700 Socket Type)
- Waterproof power button
- IP66 air pressure relief valve
- Wide range DC in +19V ~ +24V
- Full system IP66, IP69K
- Optional WiFi/BT with waterproof antenna
- Projective capacitive touchscreen full flat design
- Rich and swappable I/O, 1 x LAN, 2 x USB, 1 x COM by M12 8-pin(male) with waterproof cover and chain
- 1x 262-pin DDR5 4800MHz SO-DIMM socket, supports up to 32GB
- Wide temperature -10°C ~ 45°C
- Multiple OS support (Win10/11, Linux)
- TPM 2.0

Specification

System Information

Processor	Intel® 13th Gen Raptor Lake-PS Core™ 3/5/7 Processor (LGA1700 Socket Type)
System Memory	1x 262-pin DDR5 4800MHz SO-DIMM socket, supports up to 32GB
I/O Chipset	EC ITE IT8883FN-I
Watchdog Timer	H/W reset, 1sec. ~ 65535sec./1sec.step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
TPM	TPM 2.0
SBC	HID-2340
CPU Cooler (Type)	Fanless heatsink
Other	1 x WiFi with waterproof antenna (optional)

Expansion

Expansion	1 x M.2 Key B 3042/3052/2280 with 1 x PCI-e x2 & 1 x USB 3.0/2.0 signal 1 x M.2 Key E 2230 support WiFi module
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Storage

Storage	Default with 128GB SSD
Other Storage Device	1 x M.2 Key M 2280 (PCI-e x4) slot for storage (Optional)

Display

Graphic Chipset	Intel® Graphics
Spec. & Resolution	LVDS: Max. Resolution 1920x1080 @ 60Hz eDP: Max. Resolution 1920 x 1080 @ 60Hz

Audio

Audio Codec	Realtek ALC888S
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Ethernet

LAN Chipset	1 x Intel I225LM Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx GbE compatible

Power Requirement

DC Input	+19V ~ +24V
ACPI	Single power ATX support S0, S3, S4, S5 and ACPI 3.0 compliant

Software Support

OS	Win10 / 11, Linux
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Certification

Certification Information	CE / FCC Class A
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Panel

LCD Size	21.5", 16:9
Display Type	Full HD
Resolution	1920 x 1080
Pixel pitch	247.95um(H) x 247.95um(V)
Luminance	250 cd/m2
Contrast ratio	1000
Viewing angle	89 (U), 89 (D), 89(L), 89 (R)
Response time	22 ms
Backlight	LED
Touch Type	Projective capacitive multi-touch up to 10 points
Touch Light Transmission	85%
Touch Controller	EETI 80H84

External I/O

USB Port	2 x M12 8-pin (male) for 2 x USB 2.0 with waterproof cover and chain
LAN Port	1 x RJ-45 8-pin (male) for LAN with waterproof cover and chain
COM Port	1 x M12 8-pin (male) for COM (RS-232/422/485) with waterproof cover and chain

Internal I/O

SATA	1 x SATA III
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System Control

LED Indicator	HDD LED, power LED
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Mechanical & Environmental

Operating Temp.	-10°C ~ 45°C (14°F ~ 113°F), by flow = 0.5
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Storage Temp.	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	40°C @ 95% Relative humidity, non-condensing
Dimension (W x L x H)	562 x 365.8 x 49mm
Weight	12.2 Kg
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
Drop Test	ISTA 2A, IEC-60068-2-32 Test:Ed
IP Rating	Whole system IP69K, IP66
Mounting Kit	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm
Power Mode	AT/ATX (ATX is default)
System Fan	Fanless
Construction - Front	Stainless steel
Construction - Rear	Stainless steel

Component	
Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 90W adapter (24V @ 3.75A adapter) AC-DC adapter (need waterproof M12/4pin-D2.5 DC Jack-plug 200cm cable for M12 DC in connector --> E170W060030R)

Ordering Information	
Ordering Information	SPC-2142-100-A1R 21.5" 1920 x 1080 Full IP-66 Stainless Steel panel PC/PCap/IP-69K/Intel 3-100UL/ 8GR/128GSSD/5M12/LAN/2x2USB/COM/DCin)/VentValve/HID-2340/without Adapter SPC-2142-120-A1R 21.5" 1920 x 1080 Full IP-66 Stainless Steel panel PC/PCap/IP-69K/Intel 5-120UL/ 8GR/128GSSD/5M12/LAN/2x2USB/COM/DCin)/VentValve/HID-2340/without Adapter ACC-ARM-D1R VESA STAND, 75mm & 100 mm ACC-ARM-D23R VESA STAND, 75mm & 100 mm ACC-ADP-090N-04R AC/DC adapter 24V/3.75A Plug Type *(Suggest DC Jack to M12 cable E170W060030R (Waterproof M12 DC Cable) when adapter needed) E971XSP1542000R WiFi module Kit for SPC-xx42/M.2 WIFI Intel® Wi-Fi 6E AX210/2 Antenna E170W060030R 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

