

SPC-1542

15" 13th Generation Intel® Core™ 3/5/7 Processors
Fanless Stainless Steel Chassis Touch Panel PC
with Full IP-66 & IP-69K



Features

- Intel® 13th Gen Raptor Lake-PS Core™ 3/5/7 Processor (LGA1700 Socket Type)
- 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
- 1x 262-pin DDR5 4800MHz SO-DIMM socket, supports up to 32GB
- Wide range DC in +19V ~ +24V
- Wide temperature -10°C ~ 50°C
- Full system IP66, IP69K
- Multiple OS support (Win10, Linux)
- Optional WiFi/BT with waterproof antenna; TPM 2.0



+19V ~ +24V



PCAP
Multi-touch



Fanless



Wide Temp.
-10°C ~ 50°C



Full
IP66/ IP69K

Specifications

System Information

Processor	Intel® 13th Gen Raptor Lake-PS Core™ 3/5/7 Processor (LGA1700 Socket Type)
System Memory	1 x 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 / Linux
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Certification

Certification Information	CE / FCC Class A
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System Control

LED Indicator	HDD LED, power LED
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Panel

LCD Size	15", 4:3
Display Type	XGA
Resolution	1024 x 768
Pixel Pitch	0.297mm (H) x 0.297mm (V)
Luminance	300 cd/m²
Contrast Ratio	2000
Viewing Angle	88 (U), 88 (D), 88 (L), 88 (R)
Response Time	16 ms
Backlight	LED
Touch Type	Projective capacitive multi-touch up to 10 points
Touch Light Transmission	85%
Touch Controller	ILITEK ILI2511

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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Mechanical & Environmental

Operating Temp.	-10°C ~ 50°C (14°F ~ 122°F), by flow = 0.5
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)	393 x 315.8 x 49mm
Weight	7.9Kg
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)
Construction	Stainless steel (Front), Stainless steel (Rear)

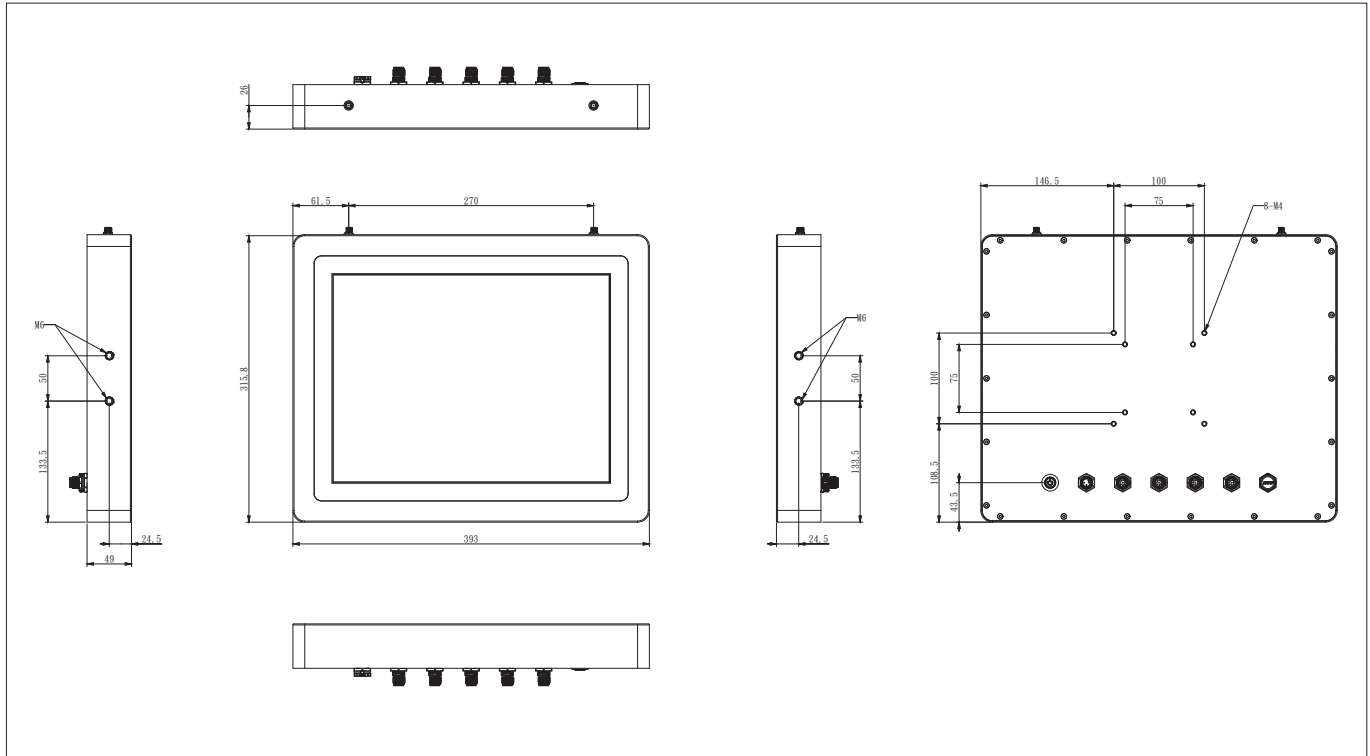
Component

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)
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Mechanical Drawing



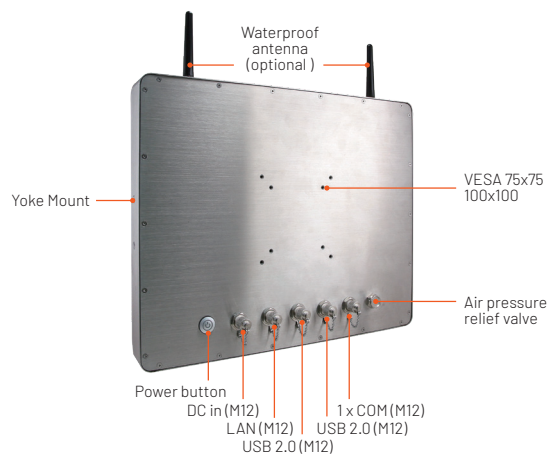
Ordering Information

P/N	Touch Type	Processor	Memory	Storage	Resolution	Luminance	COM	USB	LAN	Power Input	Operating Temp.	OS Support
SPC-1542-100-A1R	PCAP	3-100UL	1 x 262-pin DDR5 4800MHz SO-DIMM	Default with 128GB SSD 1 x M.2 Key M 2280 (PCIe x4) slot for storage (by option)	1024 x 768	300	1	2	1	+19V ~ +24V	-10°C ~ 50°C	Win 10/11, Linux
SPC-1542-120-A1R	PCAP	5-120UL	1 x 262-pin DDR5 4800MHz SO-DIMM	Default with 128GB SSD 1 x M.2 Key M 2280 (PCIe x4) slot for storage (by option)	1024 x 768	300	1	2	1	+19V ~ +24V	-10°C ~ 50°C	Win 10/11, Linux

Packing List

Item	P/N	Quantity
M4 x 6mm Screw for VESA	ACC-SCREW-0002R	4
M3 x 4mm Screw for HDD	ACC-SCREW-0003R	4

I/O Overview



Optional Items

Item	P/N
VESA STAND, 75mm & 100 mm	ACC-ARM-D1R
VESA STAND, 75mm & 100 mm	ACC-ARM-D23R
AC/DC adapter 24V/3.75A 90 Plug Type *(Suggest DC Jack to M12 cable E170W060030R (Waterproof M12 DC Cable) when adapter needed)	ACC-ADP-090N-04R
WiFi Kit for SPC-xx42/M.2 WiFi Intel AX210/2 Antenna	E971XSP1542000R
Waterproof M12 DC Cable	E170W060030R
Waterproof M12 USB Cable	E170W160030R
Waterproof M12 Lan Cable	E170W160040R
Waterproof M12 COM Cable	E170W170010R
USA Power Cord	E1702031833R
EU Power Cord	E1702031000R
Japan Power Cord	E1702031834R
UK Power Cord	E1702031830R
Australia Power Cord	E1702031831R