

SP-151C-1N305

Industrial Fanless 15.6" Panel PC, w/ Intel® Alder Lake-N Core i3 Processor N-series



Features

- Intel® Alder Lake-N Core i3-N305 Processor (8 Cores, Up to 3.8GHz)
- 15.6 inches FHD LCD with LED backlight, front panel support IP66
- Industrial-grade 10 points project capacitive touch screen
- 1 x DDR5 4800MHz SO-DIMM Slot, up to 16GB
- Support Two 2.5GbE LAN
- Wide voltage 12~36V DC-IN, lockable Phoenix connector
- Support remote ON-OFF
- Grounding protection for product shell
- Support 1 x 2.5 inches HDD/SSD expansion
- Support standard VESA and panel mount
- Support Over-Voltage & Reversed Power Insertion Protection



HDMI



Over-Voltage Protection



USB 3.1



-10~60°C



Reversed Power Insertion Protection

System

CPU	Intel® Core™ i3-N305 Processor (6M Cache, 8 Cores, Up to 3.8GHz)
Memory	1 x DDR5 SO-DIMM sockets, supporting 4800 MHz SDRAM up to 16GB
Chipset	Integrated in CPU
Graphics	Integrated Intel UHD Graphics
LAN Chipset	2 x Intel® i226-V 2.5GbE controllers
Watchdog Timer	1~255 levels reset

Storage

Device	1 x M.2 2242/2280 SATA SSD or 1 x M.2 2242/2280 PCIe x4 NVMe (*OEM Request) 1 x SATA 3.0 (2.5" HDD/SSD driver bay)
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Audio

Type	1 x Audio (Line-out & Mic-in 2 in 1) Chipset ALC888S
Speaker	2 x 4Ω 3W speakers

LCD Display

Size/Type	15.6 inches TFT LCD Panel
Max. Resolution	1920(H) x 1080(V)
Ratio	16:9
Luminance	350 nits
Contrast Ratio	1000:1
Backlight Type	LED
Backlight Lifetime	50,000 Hrs
Touch Type	10 points project capacitive touch screen
Touch	35,000,000 times
View Angle	CR ≥ 10, 178° (H) / 178° (V)

Power System

Power Input	12~36VDC 1 x Power Connector (2P Phoenix)
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OS

Windows 10/11, Ubuntu 22.04

*Note for M.2 2242/2280 PCIe x4 NVMe (OEM Request):
When OEM Request is executed, M.2 SATA & 2.5" SATA are disabled.

Qualification

Certification	CE, FCC
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External I/O

Serial Ports	1 x RS232/422/485 (COM1) with DB9 1 x RS232(default)/485(Jumper)(COM2) with DB9 1 x RS232(COM3) with DB9
USB Ports	2 x USB 3.2 2 x USB 2.0
LAN	2 x RJ45
Video Ports	1 x HDMI® (up to 4096 x 2160@60Hz)
Power button	1 x Power button w/ LED
Remote On/Off	1 x Remote On/Off Switch

Internal I/O

Expansion	1 x M.2 E-key 2230 slot 1 x 8bit GPIO 3.3V(jumper)/5V(default) Power voltage 2 x RS232
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Mechanical

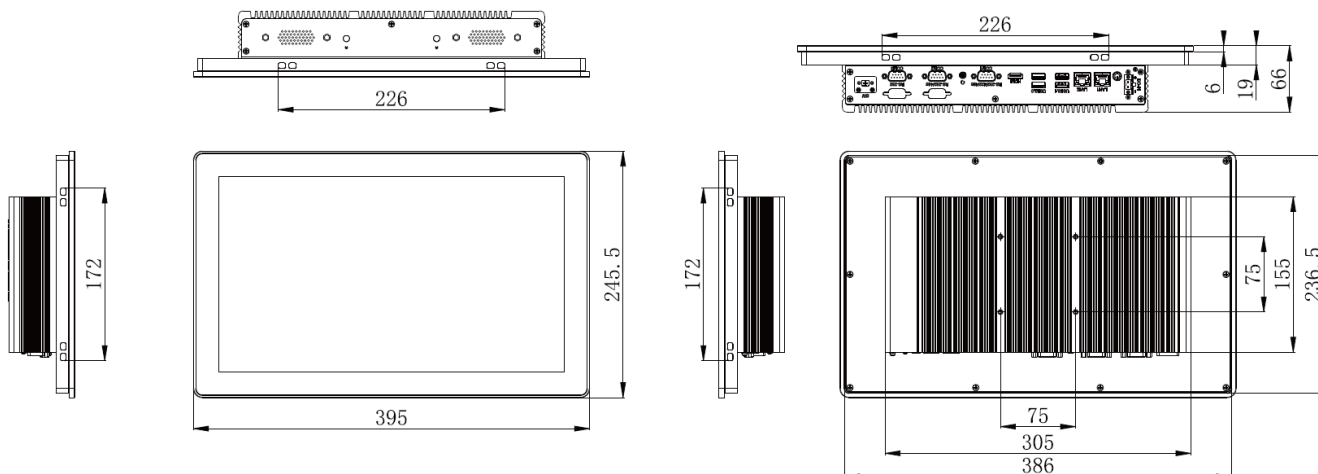
Front Panel	Aluminum alloy
Heat-Sink	Aluminum alloy
Rear Cover	SECC
Mounting	Panel Mount, Wall and VESA-mount (75 x 75 mm)
Dimension (W x H x D)	395(W) x 245.5(H) x 66(D)mm
Cut-Out	387 x 237.5mm
Weight	4.2 Kg
Ingress Protection	Front Panel IP66

Environmental

Operating Temp.	-10 ~ 60°C, ambient w/ air flow
Storage Temp.	-40 ~ 70°C
Operating Humidity	5 ~ 95% @ 40°C (non-condensing)
Vibration	5~500Hz, 2Grms operation
Shock	Operation: 10G@11ms Non-operation: 30G@11ms

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Dimension



Unit: mm

Ordering Information

SP-151C-1N305

15.6"(16:9) Panel PC, Intel® Core™ i3-N305 processor, HDMI*1, USB*4, LAN*2, COM*5, DC12~36V power input



PAC-120W-FSP-SPA R1.0 AC/DC ADAPTER KIT (W/ UKCA), 19V, 120W, 2 WIRE w/ USA POWER CORD

PAC-120W-FSP-SPA R1.1 AC/DC ADAPTER KIT (W/ UKCA), 19V, 120W, 2 WIRE w/ EU POWER CORD

PAC-120W-FSP-SPA R1.2 AC/DC ADAPTER KIT (W/ UKCA), 19V, 120W, 2 WIRE w/ UK POWER CORD

PAC-120W-FSP-SPA R1.3 AC/DC ADAPTER KIT (W/ UKCA), 19V, 120W, 2 WIRE w/ IN POWER CORD