

SP-181C-1TGLU

Industrial Fanless 18.5" Panel PC w/ Intel® 11th Tiger Lake U Series Processor



Features

- 11th Generation Intel® Core i5/i3 Processor (Tiger Lake)
- 18.5 inches LCD with LED backlight, front panel support IP66
- Industrial-grade 10 points project capacitive touch screen
- 1 x DDR4 3200MHz SO-DIMM Slot, up to 32GB
- Support 1 x 2.5 GbE and 2 x GbE LAN
- 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 10-36V Wide DC Input
- Support Over-Voltage & Reversed Power Insertion Protection



HDMI



Over-voltage
Protection



USB 3.1



-10~50°C



Wide Voltage
Range



Reversed
Power Insertion
Protection

System

CPU	11 th Generation Intel® Core i5/i3 Processors (Tiger Lake U series)
Memory	1 x DDR4 SO-DIMM socket, supporting 3200 MHz SDRAM up to 32GB *CTOS is available
Chipset	Integrated in CPU
Graphics	Integrated Intel® UHD Graphics
LAN Chipset	1 x Intel® i226-V 2.5 GbE controller 2 x Intel® i210-AT GbE controllers
Watchdog Timer	1~255 levels reset

Storage

Device	1 x M.2 M Key 2242 Slot (SATA signal) 1 x 22pin SATA 3.0 Slot for 2.5" HDD/ SSD drive bay *CTOS is available
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Audio

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

LCD Display

Size/Type	18.5" TFT LCD Panel
Max. Resolution	1366(H) x 768(V)
Ratio	16:9
Luminance	500 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, 89°(T)/ 89°(B)/ 89°(L)/ 89°(R)

Power System

Power Input	10~36V DC, 2-pin Phoenix connector
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OS

Windows 10/11, Ubuntu 22.04

Qualification

Certification	CE, FCC
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External I/O

Serial Ports	2 x RS232/422/485(COM1/2) with DB9 2 x RS232/485, 2 x RS232 with 12-pin Phoenix connector
USB Ports	4 x USB3.1 1 x USB 2.0 (Front)
LAN	3 x RJ45
Video Ports	1 x HDMI (Max Resolution: 4096x2160@60Hz)
Remote On-Off	1 x Remote On/Off Switch

Internal I/O

Expansion	1 x full-size MiniPCle (PCle/USB2.0 signal supported) 1 x M.2 E Key 2230 slot (PCle/USB2.0 signal supported) 1 x SIM socket 1 x 8bit GPIO
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Mechanical

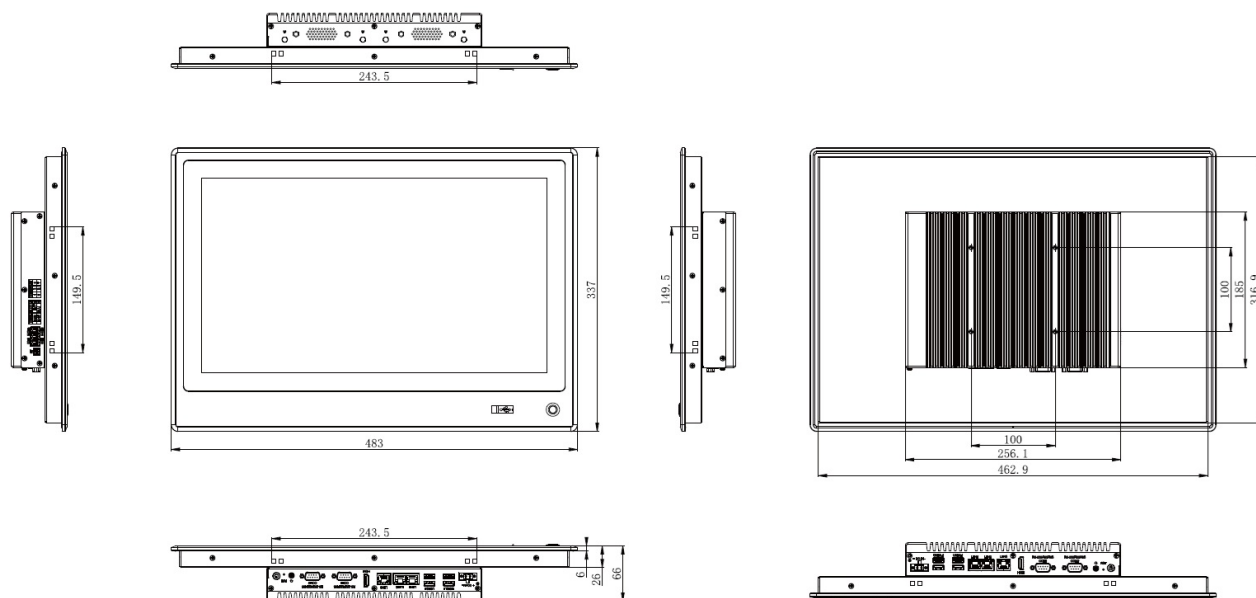
Front Panel	Aluminum alloy
Heat-Sink	Aluminum alloy
Rear Cover	SECC
Reset Button	1 x OS reset
Power Button	1 x Power button w/LED
Dimension (W x H x D)	483(W) x 337(H) x 66(D) mm
Cut out	463.9 x 317.9 mm
Mounting	Panel mount, Wall mount and VESA-mount (100 x 100 mm)
Weight	6.75kg
Ingress Protection	Front panel IP66

Environmental

Operating Temp.	-10 ~ 50°C (14 ~ 122°F), ambient w/ air flow (WT RAM & SSD)
Storage Temp.	-40 ~ 70°C (-40 ~ 158°F)
Operating Humidity	5 ~ 95% @40°C (non-condensing)
Vibration	5~500Hz, 2Grms operation
Shock	Operation: 10G@11ms Non-operation: 30G@11ms

*CTOS means Configure-to-Order Service.

Dimensions



Unit: mm

Packing List

SP-181C-111XXXXX	1 pcs
2-pin terminal block	1 pcs 5.0mm for Power-input, 1 pcs 3.5mm for Remote on-off SW
DIP-12 Terminal block	1 pcs for serial ports (COM3~6)
Thermal Pad	1 pcs for Memory, 1 pcs for M.2 2242
Panel Hook	2 packages (4 pcs in 1 package)
Screw Package	1 pcs

Ordering Information

SP-181C-11135G7	18.5"(16:9) Panel PC with Intel® 11th Gen Core™ i5-1135G7 2.4G processor
SP-181C-11135G7-R8S128	18.5"(16:9) Panel PC with commercial 8GB RAM & 128GB SSD, Intel® 11th Gen Core™ i5-1135G7 2.4G processor
SP-181C-11115G4	18.5"(16:9) Panel PC with Intel® 11th Gen Core™ i3-1115G4 3.0G processor
SP-181C-11115G4-R8S128	18.5"(16:9) Panel PC with commercial 8GB RAM & 128GB SSD, Intel® 11th Gen Core™ i3-1115G4 3.0G processor
PAC-120W-FSP-SPA-US R1.0	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ US POWER CORD
PAC-120W-FSP-SPA-EU R1.0	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ EU POWER CORD
PAC-120W-FSP-SPA-UK R1.0	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ UK POWER CORD
PAC-120W-FSP-SPA-IN R1.0	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ IN POWER CORD
PAC-120W-FSP-SPA-JP R1.0	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ JP POWER CORD

