

SP-181C-1J64

Industrial Fanless 18.5" Panel PC, w/ Intel® Elkhart Lake Celeron J6412 Processor



Features

- Intel® Celeron® J6412 CPU Elkhart Lake (2.0 GHz/2.6GHz)
- 18.5 inches LCD panel with LED backlight, front panel support IP66
- Industrial-grade 10 points project capacitive touch screen
- Support Mini-PCIe/M.2 extension of multiple modules
- Support dual 2.5GbE LAN
- Support remote ON-OFF
- Grounding protection for product shell
- Support 1 x 2.5 inch 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



Wide Voltage
Range



Reversed
Power Insertion
Protection

System

CPU	Intel® Celeron® J6412 CPU Elkhart Lake (2.0 GHz/2.6GHz)
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 for 10 th Gen Processor
LAN Chipset	2 x Intel® I226-V 2.5GbE controllers
Watchdog Timer	1~255 levels reset

Storage

Device	1 x M.2 M Key 2242 Slot (SATA signal) 1 x SATA 3.0 (2.5" HDD/SSD driver 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	30,000 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	12~36V 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	1 x RS232/RS422/RS485-COM1 1 x RS232(default)/RS485(Jumper)-COM2 1 x RS232-COM3
USB Ports	2 x USB2.0, 2 x USB3.1
LAN	2 x RJ45
Video Ports	1 x HDMI (up to 4096 x 2160@60hz)
Remote On-Off	1 x Remote On/Off Switch

Internal I/O

Expansion	1 x Mini-PCIe slot (PCIe/ USB2.0 signal supported) 1 x M.2 2230 slot (PCIe/ USB2.0 signal supported) 1 x M.2 2242 slot (SATA signal supported) 1 x SIM socket for 3G/4G 1 x 8bit GPIO 3.3V(jumper)/5V(default) power 1 x RS232-COM4 2 x RS232 (RX/TX)-COM5/6 2 x USB2.0--For Touch 1 x SATA3.0/Power 5V for HDD
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Mechanical

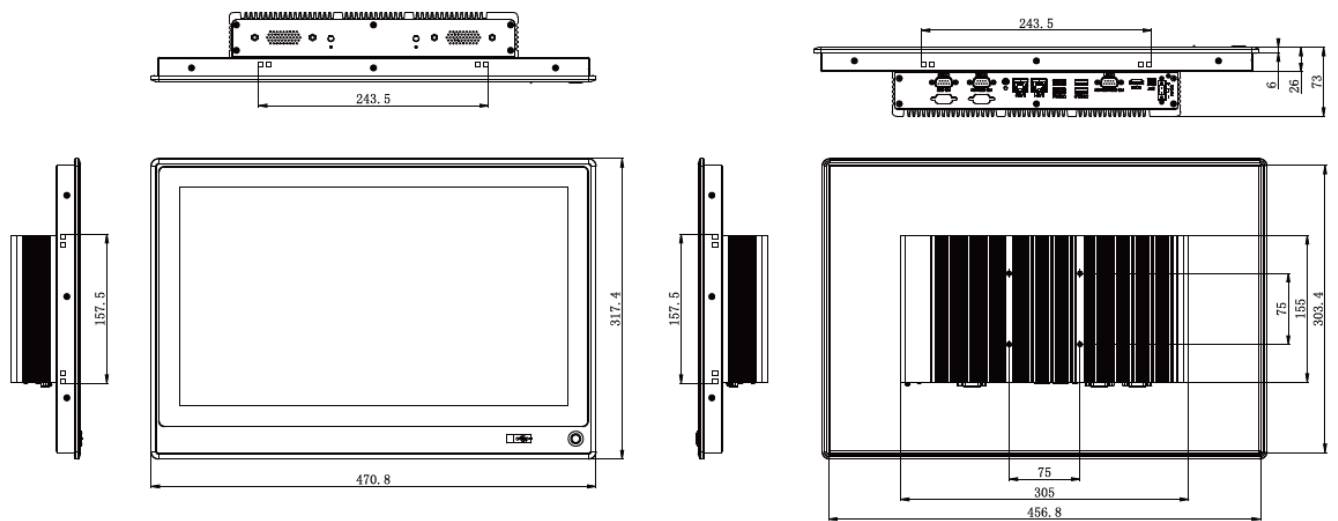
Front Panel	Aluminum alloy
Heat-Sink	Aluminum alloy
Rear Cover	SECC
Reset Button	1 x OS reset
Power Button	1 x Power button w/LED
Dimension (W x H x D)	470.8(W) x 317.4(H) x 73(D) mm
Cut out	457.8 x 304.4 mm
Mounting	Panel Mount, Wall and VESA-mount (75 x 75 mm)
Weight	6.8kg
Ingress Protection	Front panel IP66

Environmental

Operating Temp.	-10 ~ 60°C, ambient w/ air flow (WT RAM & SSD)
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

*CTOS means Configure-to-Order Service.

Dimensions



Unit: mm

Packing List

SP-181C-1J64	1 pcs
2-pin terminal block	1 pcs 5.0mm for Power-input, 1pcs 2.0mm for Remote on-off SW
Thermal Pad	1 pcs for Memory, 1pcs for M.2 2242
Panel Hook	4 pcs per bag, 2 bags in total
Screw Package	1 pcs
22-pin SATA & Power Cable	1 pcs

Ordering Information

SP-181C-1J64	18.5"(16:9) Panel PC with Intel® Celeron J6412, P-touch, HDMI*1, USB*4, LAN*2, COM*3, DC12~36V power input
SP-181C-1J64-R8S128	18.5"(16:9) Panel PC with commercial 8GB RAM & 128GB SSD, Intel® Celeron J6412,P-touch, HDMI*1, USB*4, LAN*2, COM*3, DC12~36V power input
PAC-60W-FSP-SPA-US R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ US POWER CORD
PAC-60W-FSP-SPA-EU R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ EU POWER CORD
PAC-60W-FSP-SPA-UK R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ UK POWER CORD
PAC-60W-FSP-SPA-IN R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ IN POWER CORD
PAC-60W-FSP-SPA-JP R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ JP POWER CORD

