

SP-120R-1J64

Industrial fanless 12.1" Panel PC , w/ Intel® Elkhart Lake Celeron J6412 Processor



System

CPU	Intel® Celeron® J6412 CPU Elkhart Lake (2.0GHz/2.6GHz)
Memory	1 x DDR4 2133/2400/3200MHz SO-DIMM slot, up to 32GB *CTOS is available
Graphics	Intel® UHD Graphics for 10 th Gen Intel® Processors
LAN	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) *CTOS is available
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Audio

Type	1 x Audio (Line-out & Mic-in 2 in 1)
Speaker	Realtek® ALC888S HD Audio codec 4Ω 3W speaker x2

LCD Display

Size/Type	12.1" TFT LCD Panel
Max. Resolution	1024 x 768
Ratio	4:3
Luminance	450 cd/m ²
Contrast Ratio	700:1
Backlight	LED Backlight
Backlight Lifetime	50,000 Hrs
Touch Screen	Industrial-grade true-flat 5-wire resistive touch screen
Touch	35,000,000 times
View Angle (U/D/R/L)	80° / 80° / 80° / 80°

Power System

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

Windows 10/11, Ubuntu 22.04

Qualification

Certification	CE, FCC
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Features

- Intel® Celeron® J6412 CPU Elkhart Lake (2.0 GHz/2.6GHz)
- 12.1" LCD panel with LED backlight, front panel support IP66
- Industrial-grade true-flat 5-wire resistive 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 standard VESA and panel mount



HDMI



Over-voltage
Protection



USB 3.1



-20~60°C



Wide Voltage
Range



Reversed
Power Insertion
Protection

External I/O

Serial Ports	1 x RS232/RS422/RS485(COM1) 1 x RS232(default)/RS485(Jumper)
USB Ports	2 x USB2.0, 2 x USB3.1
LAN	2 x RJ45
Video Ports	1 x HDMI (up to 4096x2160@60Hz)
Remote On-Off	1 x Remote ON-OFF

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 2 x RS232 2 x USB2.0--For Touch 1 x SATA3.0/Power 5V for HDD
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Mechanical

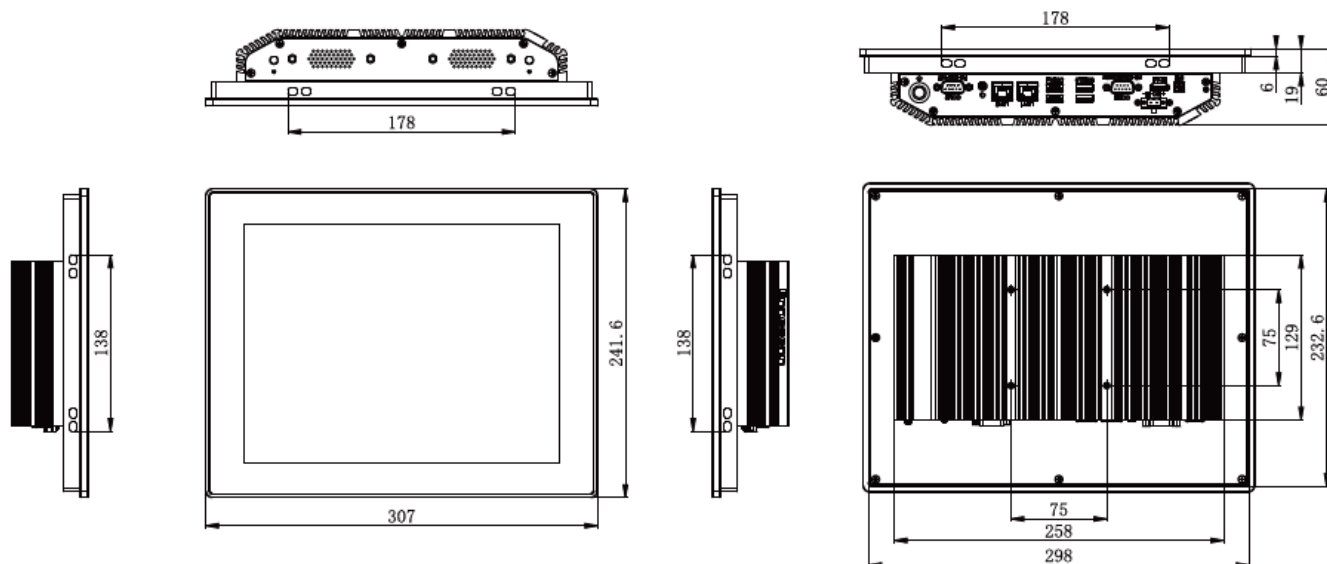
Mounting Type	Panel mount, Wall mount and VESA-mount (75 x 75mm)
Chassis	Aluminum for front Panel and heat-sink, SECC for Rear Cover
Dimension (W x H x D)	307(W) x 241.6(H) x 60(D) mm
Cut out	299 x 233.6mm
Weight	2.9 kg

Environmental

Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow (WT RAM & SSD)
Storage Temp.	-40 ~ 70°C (-40 ~ 158°F)
Operating Humidity	5 ~ 95% (non-condensing)
Random Vibration	5~500Hz, 2Grms operation
Sine Vibration	5~500Hz, 2G Non-operation
Shock	10g 11ms operation, 30g 11ms Non-operation

*CTOS means Configure-to-Order Service.

Dimensions



Unit: mm

Packing List

SP-120R-1J64	1 pcs Panel PC
Panel Hook	4 pcs in 1 package
Thermal PAD	1 pcs for M.2 2242, 1 pcs for Memory
2-pin terminal block	1 pcs 5mm for Power-input, 1pcs 3.5mm for Remote on-off SW
Screw package	1 pcs

Ordering Information

SP-120R-1J64	Barebone 12.1" (4:3) Panel PC with Intel Celeron Elkhart Lake J6412, R-touch, HDMI*1, USB*4, LAN*2, COM*2, DC12-36V power input
SP-120R-1J64-R4S128	12.1" (4:3) Panel PC with commercial 4GB RAM & 128GB SSD, Intel Celeron Elkhart Lake J6412, R-touch, HDMI*1, USB*4, LAN*2, COM*2, DC12- 36V power input
SP-120R-1J64-R8S128	12.1" (4:3) Panel PC with commercial 8GB RAM & 128GB SSD, Intel Celeron Elkhart Lake J6412, R-touch, HDMI*1, USB*4, LAN*2, COM*2, 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

