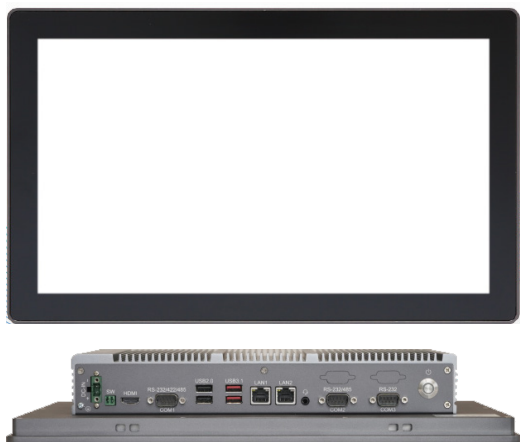# SP-21PW-J64A

Industrial Fanless 21" 10 Points Multitouch Panel PC, Intel Elkhart Lake J6412 Platform

Features
- Onboard Intel® Celeron® J6412 quad core CPU, main frequency can reach to 2.6GHz
- 21.5 inches highlight LED panel, front panel support IP66
- Aluminum alloy structure makes it light, firm and stable, and has better heat dissipation effect
- Industrial-grade 10 points project capacitive touch screen
- Support Mini-PCIe/M.2 extension of multiple modules
- Support dual GbE LAN
- Wide voltage 12~36V DC-IN, lockable phoenix connector
- Support remote ON-OFF
- Grounding protection for product shell
- Support 1 x 2.5 inch HDD/SSD expansion
- Support standard VESA and panel mount
- Over-voltage power input protection
- Reversed power input protection

Industrial Automation System

System

CPU	Intel® Elkhart Lake Celeron® J6412 processor (2.00 GHz/2.6GHz)
Memory	1 x DDR4 2133/2400/3200hz SO-DIMM slot, up to 32GB 4GB DDR4 SO-DIMM pre-installed
Graphics	Intel® UHD Graphics for 10th Gen Intel® Processors
LAN chipset	Intel® L226V GbE(10/100/1000 Mbps)
Watchdog Timer	Programmable 255 levels timer interval, from 1~255 sec/min

Storage

Device	1 x M.2 2242 SSD slot 128GB M.2 SSD pre-installed

Audio

Type	1 x Audio(Line-out&Mic-in 2 in 1) Realtek® ALC888S HD Audio codec
Speaker	2 x 4Ω3W speaker

LCD Display

Size/Type	21.5" TFT LCD Panel
Max. Resolution	1920 x 1080
Ratio	16:9
Luminance	250 cd/m²
Contrast Ratio	1000
Backlight	LED Backlight
Backlight Lifetime	30000 Hrs
Touch Screen	P-cap Multi-Touch
Touch	35,000,000 times
View Angle	CR > 10, 89° (H)/89° (V)

Power System

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

OS

	Windows 10, Linux

Qualification

Certification	CCC/CE/FCC

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 4096x2160@60hz)
Remote On-Off	1 x Remote ON-OFF

Internal I/O

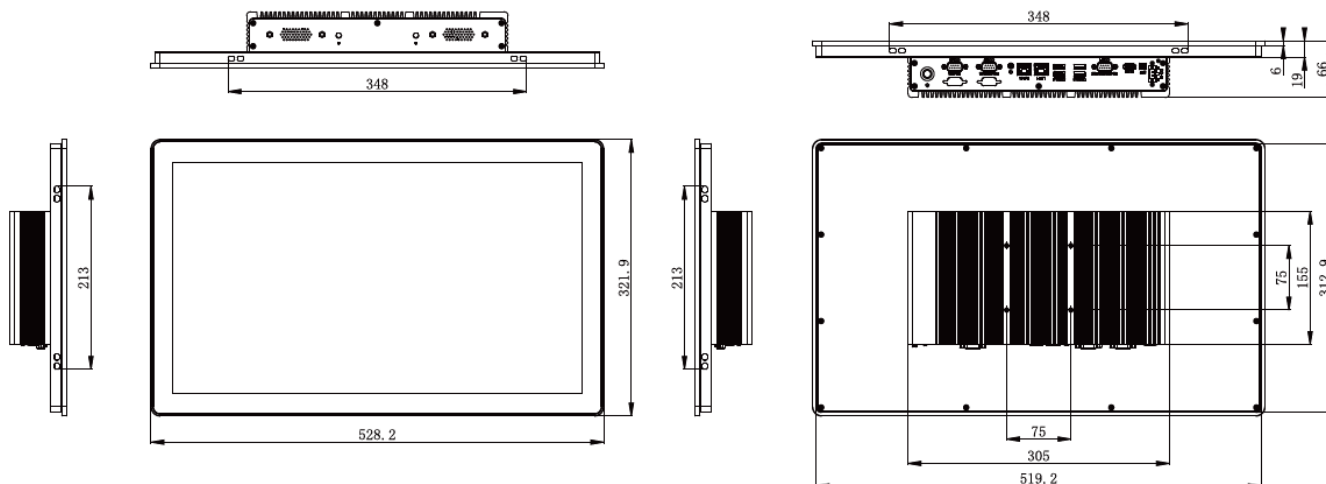|	
Expansion	1 x Mini-PCIe slot (PCIe/ USB2.0 signal supported) 1 x M.2 2230 slot (PCIe/ USB2.0 signal supported) 1 x M.2 2242 slot(SATA signal supported) 1 x SIM socket for 3G/4G 1 x 8bit GPIO 3.3V(jumper)/5V(default) power 1 x RS232-COM4 2 x RS232(RX/TX)-COM5/6 2 x USB2.0--For Touch 1 x SATA3.0/Power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

Mechanical

Mounting Type	Panel Mount, Wall and VESA-mount (75 x 75mm)
Chassis	Aluminum for front Panel and heat-sink, SECC for Rear Cover
Dimension (W x H x D)	528.2 X 321.9 X 66mm
Cut out	520.2 x 313.9mm
Weight (Net)	6.9kg
Ingress Protection	Front panel IP66

Environmental

Operating Temp.	-10 ~ 50°C
Storage Temp.	-40 ~ 70°C
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

Dimensions

Ordering Information

SP-21PW-J64A-R4S128	21.5"(16:9) Panel PC with 4GB RAM & 128GB SSD, Intel Celeron Elkhart Lake J6412, P-touch, HDMI*1, USB*4, LAN*2, COM*3, DC12-36V power input	
AC-DC Power Adapter (US)	Input: 100V-240V, Output: 12V/5A; W/2-pin Terminal Block with screws, US Plug	
AC-DC Power Adapter (EU)	Input: 100V-240V, Output: 12V/5A; W/2-pin Terminal Block with screws, EU Plug	

All specifications are subject to change without notice.