



OFP-21W33

21.5" Full-HD PCAP Multi-Touch Fanless Open Frame Panel PC with Intel® Celeron® J3455 Processor

- > 21.5" Full-HD Open frame panel PC with PCAP Touch
- > Onboard Intel® Celeron® J3455 SoC BGA Processor (2M Cache, up to 2.30 GHz)
- > 2 x 204-pin DDR3L 1600 & 1333MHz SO-DIMM supports up to 16GB
- > 2x GbE LAN, 4 x USB 3.0, Line-out, Mic-in, 1 x COM, DP++, HDMI/DP
- > Option for 4 x COM, 4 x USB2.0, 16-bit GPIO with DB9 connector
- > Slim & Strength Design
- > Fanless Operation from 0° ~ 45°C
- > Wide Voltage Input +12 ~ 24Vdc
- > Option for Wi-Fi & BT function
- > Option for Infineon SLB9665 TPM 2.0

Spec

System Information	
Processor	Onboard Intel® Celeron® J3455 SoC BGA Processor (2M Cache, up to 2.30 GHz)
System Memory	Default with 4GB DDR3L Memory Option supports up to 16GB DDR3L 1600 & 1333MHz SO-DIMM
I/O Chipset	EC iTE IT8528
BIOS Information	AMI 128Mbit SPI BIOS
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
CPU Cooler (Type)	Fanless Heatsink
Board	EMX-APLP
Expansion	
Expansion	1 x M.2 (2230) A-Key support WiFi module
Storage	
Storage	Default with 64GB mSATA
Other Storage Device	Reserve space for 1 x 2.5" Drive Bay design (by option)
Panel	
LCD Size	21.5", 16:9
Display Type	Full HD
B/L Inverter/Converter	LCD built in
Resolution	1920 x 1080
Pixel pitch	0.24795(H) x 0.24795(V)
Luminance	250 cd/m²
Contrast ratio	2000
Viewing angle	89 (U), 89 (D), 89 (L), 89 (R)
Response time	35 ms
Backlight	LED
Touch Type	Projective Capacitive Multi-Touch supports up to 10 points
Touch Light Transmission	89 %
Touch Controller	EETI
I/O	
USB Port	4 x USB 3.0, 4 x USB 2.0 (option)
COM Port	1 x RS232(default)/RS422/485, 4 x RS232(option, pin9 without power)
DIO	16-bit GPIO with DB9 connector(option)
Expansion	1 x M.2 (2230) A-Key support WiFi module
Other	2 x Antenna Mounting with Dust Cover (Reserve)
DC In/Out Characteristics	
Power Type	AT/ATX
Display	
Graphic Chipset	Intel® HD Graphics 500
Spec. & Resolution	HDMI/DP: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz
Audio	
Audio Codec	Realtek ALC662 supports 2-CH
Audio Interface	Mic-in, Line-out
Audio Amplifier	2 x Stereo Class-D 3W Audio Amplifier
Certifications	
Certification Information	CE / FCC Class A
Ethernet	
LAN Chipset	2 x Intel I211AT Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx GbE compatible



LAN Port	2 x RJ45
Mechanical & Environmental	
Operating Temperature	0°C ~ 45°C
Storage Temperature	-20°C ~ 60°C
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (W x L x H)	501.9 x 296.2 x 52.4 mm
Weight	4.1Kgs
Vibration Test	With mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 0.5hr/axis
Shock Test	Operating with mSATA : IEC 60068-2-27 testing procedures, 10G for operation mode
Mounting Kit	Flush / Panel / Wall Mount with mounting kits, VESA 100mm x 100mm
Power Requirement	+12V~24V DC in 3 pins Phoenix connector and Lockable DC Jack Extend Power Connector for on/off or Reset
Power Mode	AT/ATX
System Fan	Fanless
Relative Humidity	0~90% Relative Humidity, Non-condensing
Fanless	Yes
Drop	ISTA 2A, IEC-60068-2-32 Test:Ed
Software Support	
OS Information	Windows 10 IoT, Linux, x86 Android 8.1
Ordering Information	
Ordering Information	OFF-21W33-345-A1R 21.5" Full-HD Multi Touch Open Frame Panel PC / Intel Celeron J3455, 4GR,64GB mSATA,4USB3,COM,2LAN,DP++,DP,HDMI without adapter ACC-OFP-21-PMT-01R Panel Mount Kits for OFF-21W series ACC-OFP-21-WMT-01R Wall Mount Kits for OFF-21W series