



OFF-21W38

21.5" Full-HD PCAP Multi-Touch Fanless Open Frame Panel PC with Intel® Core™ SoC i7/i5/i3 & Celeron® BGA Processor

- > 21.5" Full-HD Open frame panel PC with PCAP Touch
- > Onboard Intel® Core Soc i7/i5/i3 & Celeron® BGA Processor
- > 2 x 260-pin DDR4 3200 MHz SO-DIMM supports up to 64GB
- > 1 x M.2 Type B 3042/3052/2242/2260/2280 (with 1 x PCI-e x1 (default) or SATA, USB 3.0 with 1 x SIMcard slot, support WWAN+GNSS or NVMe SSD
- > 2x GbE LAN, 4 x USB 3.0, Line-out, Mic-in, 1 x COM, DP++, HDMI/DP
- > Option for 4 x COM, 3 x USB2.0
- > 16bit GPIO
- > TPM 2.0
- > Slim & Strength Design
- > Fanless Operation from 0° ~ 45°C
- > Wide Voltage Input +12 ~ 24V DC
- > Option for Wi-Fi & BT function

Spec

System Information

Processor	Onboard Tiger Lake U 11th Intel® Core™ SoC i7/i5/i3 & Celeron® BGA Processor
System Memory	Default with 4GB DDR4 Memory Option supports up to 64GB DDR4 3200MHz SO-DIMM
I/O Chipset	EC iTE IT8528
BIOS Information	AMI uEFI BIOS, 256Mbit SPI Flash ROM
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-TGLP

Expansion

Expansion	1 x M.2 (2230) E-Key support WiFi module
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Storage

Storage	Default with 128GB M.2 SATA Other Storage Device Reserve space for 1 x 2.5" SSD (by option)
Other Storage Device	Reserve space for 1 x 2.5" SSD (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	247.95um(H) x 247.95um(V)
Luminance	500 cd/m ²
Contrast ratio	1000
Viewing angle	89 (U), 89 (D), 89 (L), 89 (R)
Response time	14 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 2 x USB 2.0 (option)
COM Port	1 x RS232(default)/RS422/485, 4 x RS232(option, pin9 without power)
GPIO	16bit GPIO
Expansion	1 x M.2 (2230) E-Key support WiFi module
Other	6 x Antenna Mounting with Dust Cover (Reserve)

DC In/Out Characteristics

Power Type	AT/ATX
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Display

Graphic Chipset	Intel® HD Graphics 500
Spec. & Resolution	2 x DP++: 1920 x 1080@60 Hz

Audio

Audio Codec	Realtek ALC897
Audio Interface	Mic-in, Line-out
Audio Amplifier	2 x Stereo Class-D 3W Audio Amplifier

Certifications

Certification Information	CE / FCC Class A
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Ethernet

LAN Chipset	1 x Intel® I219LM Gigabit Ethernet PHY (LAN1) 1 x Intel® I225LM 2.5 Gigabit Ethernet (LAN2)
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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)	502 x 294 x 54 mm
Weight	5.0 Kgs
Vibration Test	With M.2 SATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 0.5hr/axis
Shock Test	Operating with M.2 SATA : IEC 60068-2-27 testing procedures, 10G for operation mode
Mounting Kit	Panel / Wall Mount with mounting kits, VESA 100mm x 100mm
Power Requirement	+12V~24V DC in 3 pins Phoenix connector and Power Din DC Jack Extend Power Connector for 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, Windows 11 (by option)
Ordering Information	
Ordering Information	<p>OFP-21W38-630-A1R 21.5" Full-HD Multi Touch Open Frame Panel PC / Intel Celeron 6305E, 4GR, 128GB M.2 SATA, 4xUSB3, COM, 2xLAN, 2xDP++ without adapter</p> <p>OFP-21W38-111-A1R 21.5" Full-HD Multi Touch Open Frame Panel PC / Intel Core i3, 4GR, 128GB mSATA, 4xUSB3, COM, 2xLAN, 2xDP++ without adapter</p> <p>OFP-21W38-114-A1R 21.5" Full-HD Multi Touch Open Frame Panel PC / Intel Core i5, 4GR, 128GB mSATA, 4xUSB3, COM, 2xLAN, 2xDP++ without adapter</p> <p>OFP-21W38-118-A1R 21.5" Full-HD Multi Touch Open Frame Panel PC / Intel Core i7, 4GR, 128GB mSATA, 4xUSB3, COM, 2xLAN, 2xDP++ without adapter</p>