



OFP-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 10
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 (d) SATA, USB 3.0 with 1 x SIM card slot, support WWAN+GNSS or 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

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/m²

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

.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)
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.Ordering Information

Ordering Information	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
	OFP-21W38-111-A1R 21.5" Full-HD Multi Touch Open Frame Panel PC / Intel Core i3, 4GR, 128GB mSATA,4xUSB3,COM,2xLAN,2xDP++
	OFP-21W38-114-A1R 21.5" Full-HD Multi Touch Open Frame Panel PC / Intel Core i5, 4GR, 128GB mSATA,4xUSB3,COM,2xLAN,2xDP++
	OFP-21W38-118-A1R 21.5" Full-HD Multi Touch Open Frame Panel PC / Intel Core i7, 4GR, 128GB mSATA,4xUSB3,COM,2xLAN,2xDP++
	ACC-ADP-090N-06R AC/DC adapter 24V/3.75A PWR DIN Plug
	E1702031835R USA Power Cord
	E170203183DR EU Power Cord
	E170203183BR Japan Power Cord
	E170203183ER UK Power Cord
	E1702031800R Australia Power Cord

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