



OFT-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 | |
|---------------------------------|--|
| 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 Chip | EC iTE IT8528 |
| BIOS | 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/m ² |
| 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 | 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) |
| Display | |
| Chipset | Intel® HD Graphics 500 |
| Resolution | HDMI/DP: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz |
| Audio | |
| Chipset | Realtek ALC662 supports 2-CH |
| Audio Interface | Mic-in, Line-out |
| Audio Amplifier | 2 x Stereo Class-D 3W Audio Amplifier |
| Ethernet | |
| Chipset | 2 x Intel I211AT Gigabit Ethernet |
| Ethernet Interface | 10/100/1000 Base-Tx GbE compatible |
| LAN Port | 2 x RJ45 |
| DC In/Out Characteristics | |
| Power Type | AT/ATX |
| Mechanical & Environmental | |



| | |
|----------------------------------|---|
| Power Requirement | +12V~24V DC in 3 pins Phoenix connector and Lockable DC Jack Extend Power Connector for on/off or Reset |
| Power Type | AT/ATX |
| Operating Temperature | 0°C ~ 45°C |
| Storage Temperature | -20°C ~ 60°C |
| Operating Humidity | 0% ~ 90% Relative Humidity, Non-condensing |
| Weight | 4.1Kgs |
| Mounting Kit | Flush / Panel / Wall Mount with mounting kits, VESA 100mm x 100mm |
| Dimension (L x W x H) | 501.9 x 296.2 x 52.4 mm |
| 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 |
| System Fan | Fanless |
| Relative Humidity | 0~90% Relative Humidity, Non-condensing |
| Fanless | Yes |
| Drop | ISTA 2A, IEC-60068-2-32 Test:Ed |
| Certifications | |
| Certification Information | CE / FCC Class A |
| Software Support | |
| OS Information | Windows 10 IoT, Linux, x86 Android 8.1/9.0 |