



## ARC-21W33

21.5" with Full-HD PCAP Multi-touch Intel® Celeron® J3455 Rugged Touch Panel PC with IET Expansion

- > 21.5" Full HD LCD with PCAP Multi-Touch
- > Onboard Intel® Celeron® J3455 SoC BGA Processor
- > 1 x 204-pin DDR3L SODIMM Socket, Supports Up to 8GB DDR3L 1600MTs SDRAM
- > Rich I/Os, 2 LAN, 2 COM, 4 USB, SIM Card Slot, Swappable Drive Bay, Speaker out for Flexible Expansion Modules
- > 1 x Mini PCIe Slot
- > Rugged Design for Vibration & Shock Protection, Cableless Design
- > Fanless Operation from -10 ~ 50°C
- > Wide Range DC Power Input from +9 ~ 36Vdc
- > Service Window, Easy to Install Memory Module
- > Front panel: IP65, Rear: IP41(except I/O)
- > TPM? 0 (optional)

### + Spec

| System                          |   |
|---------------------------------|---|
| <b>Processor</b>                | Onboard Intel® Celeron® J3455 SoC BGA Processor   |
| <b>System Memory</b>            | One 204-pin DDR3L SODIMM Socket, Supports Up to 8GB DDR3L 1600Mhz SDRAM (Non-ECC)   |
| <b>Watchdog Timer</b>           | H/W Reset, 1sec. ~ 65535sec./1sec.step  |
| <b>H/W Status Monitor</b>       | Monitoring CPU & System Temperature and Voltage   |
| <b>CPU Cooler (Type)</b>        | Fanless Heatsink  |
| Expansion                       |   |
| <b>Expansion</b>                | 1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe<br>1 x 80-pin IET interface                  |
| Storage                         |   |
| <b>Storage</b>                  | 1 x 2.5" Drive Bay(7mm HDD Restricted)  |
| <b>HDD/SSD</b>                  | 1 x SATA3   |
| <b>Other Storage Device</b>     | 1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe  |
| Panel                           |   |
| <b>LCD Size</b>                 | 21.5" 16:9  |
| <b>Display Type</b>             | Full HD   |
| <b>Resolution</b>               | 1920x1080   |
| <b>Pixel pitch</b>              | 0.24795mm(H) x 0.24795mm(V)   |
| <b>Luminance</b>                | 250 cd/m2   |
| <b>Contrast ratio</b>           | 3000  |
| <b>Viewing angle</b>            | 89 (U), 89 (D), 89 (L), 89 (R)  |
| <b>Response time</b>            | 20 ms   |
| <b>Backlight</b>                | LED   |
| <b>Touch Type</b>               | PCAP Multi-Touch support up to 10 points  |
| <b>Touch Light Transmission</b> | 89 %  |
| <b>Touch Controller</b>         | EETI  |
| I/O                             |   |
| <b>USB</b>                      | 4 x USB3.0 (2 x Double deck)  |
| <b>COM Port</b>                 | 1 x RS-232/422/485, selectable by BIOS, RS-485 supports Auto Flow, Pin-9 selected by Ring/+5V/+12V)<br>1 x RS-232             |
| <b>DIO</b>                      | 16-bit GPIO (option by IET DB)  |
| <b>Expansion</b>                | 1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe<br>1 x Optional by IET module                |
| <b>Other</b>                    | 3 x Knockouts for Antenna Mounting  |
| System Control                  |   |
| <b>LED Indicator</b>            | HDD LED, Power LED  |
| Audio                           |   |
| <b>Chipset</b>                  | Realtek ALC892  |
| <b>Speaker Output</b>           | 2 x 2W  |
| Ethernet                        |   |
| <b>LAN Port</b>                 | 2 x Intel I211AT for APL-M  |
| DC In/Out Characteristics       |   |
| <b>Power Type</b>               | AT/ATX  |
| Mechanical & Environmental      |   |
| <b>Power Requirement</b>        | DC in +9V ~ +36V, wide voltage single power input<br>TVS component for surge protection<br>Reverse current/voltage protection |
| <b>Power Type</b>               | AT/ATX  |



|                                  |   |
|----------------------------------|---|
| <b>Operating Temperature</b>     | -10°C ~ 50°C  |
| <b>Storage Temperature</b>       | -20°C ~ 60°C  |
| <b>Operating Humidity</b>        | 0% ~ 90% Relative Humidity, Non-condensing  |
| <b>Weight</b>                    | 7.3Kgs  |
| <b>Mounting Kit</b>              | Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm<br>Panel Mount with mounting kits  |
| <b>Dimension (L x W x H)</b>     | 537.9 x 329.4 x 55.9mm  |
| <b>IP Rating</b>                 | Front Panel IP65<br>back cover IP41   |
| <b>Vibration Test</b>            | With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis   |
| <b>Shock Test</b>                | Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G                                |
| <b>System Fan</b>                | Fanless   |
| <b>Construction - Front</b>      | Die Casting with Cover lens   |
| <b>Construction - Rear</b>       | Black Die Casting   |
| <b>Relative Humidity</b>         | 0~90% Relative Humidity, Non-condensing   |
| <b>Fanless</b>                   | Yes   |
| <b>Drop</b>                      | ISTA 2A, IEC-60068-2-32 Test:Ed   |
| <b>Certifications</b>            |   |
| <b>Certification Information</b> | CE / FCC Class B  |
| <b>Software Support</b>          |   |
| <b>OS Information</b>            | Linux, Windows 10   |
| <b>Power Requirement</b>         |   |
| <b>Power Connector</b>           | Lockable DC Jack (Default)<br>optional for phoenix connector  |
| <b>Power Requirement</b>         | DC in +9V ~ +36V, wide voltage single power input<br>TVS component for surge protection<br>Reverse current/voltage protection |
| <b>ACPI</b>                      | Single power ATX Support S0, S3, S4, S5 and ACPI 3.0 Compliant  |
| <b>Power Mode</b>                | AT/ATX  |
| <b>Adapter</b>                   | Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter   |



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