



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)
- > TPM2.0 (optional)

Spec

-System Information-	
Processor	Onboard Intel® Celeron® J3455 SoC BGA Processor
System Memory	One 204-pin DDR3L SODIMM Socket, Supports Up to 8GB DDR3L 1600Mhz SDRAM (Non-ECC)
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec./1sec.step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
CPU Cooler (Type)	Fanless Heatsink
Expansion	
Expansion	1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe 1 x 80-pin IET interface
Storage	
Storage	1 x 2.5" Drive Bay(7mm HDD Restricted)
HDD/ SSD	1 x SATA3
Other Storage Device	1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe
Panel	
LCD Size	21.5" 16:9
Display Type	Full HD
Resolution	1920x1080
Pixel pitch	0.24795mm(H) x 0.24795mm(V)
Luminance	250 cd/m2
Contrast ratio	3000
Viewing angle	89 (U), 89 (D), 89 (L), 89 (R)
Response time	20 ms
Backlight	LED
Touch Type	PCAP Multi-Touch support up to 10 points
Touch Light Transmission	89 %
Touch Controller	EETI
I/O	
USB Port	4 x USB3.0 (2 x Double deck)
COM Port	1 x RS-232/422/485, selectable by BIOS, RS-485 supports Auto Flow, Pin-9 selected by Ring/+5V/+12V) 1 x RS-232
DIO	16-bit GPIO (option by IET DB)
Expansion	1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe 1 x Optional by IET module
Other	3 x Knockouts for Antenna Mounting
System Control	
LED Indicator	HDD LED, Power LED
DC In/Out Characteristics	
Power Type	AT/ATX
Audio	
Audio Codec	Realtek ALC888S
Speaker Output	2 x 2W
Certifications	
Certification Information	CE / FCC Class B
Ethernet	
LAN Port	2 x Intel I211AT for APL-M
Power Requirement	
DC Input	DC in +9V ~ +36V, wide voltage single power input TVS component for surge protection Reverse current/voltage protection

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DC Input Connector	Lockable DC Jack (Default) optional for phoenix connector
ACPI	Single power ATX Support S0, S3, S4, S5 and ACPI 3.0 Compliant
Power Mode	AT/ATX
Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter
Mechanical & Environmental	
Operating Temperature	-10°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	538.05 x 341.05 x 60.05mm
Weight	7.3Kgs
Vibration Test	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
Shock Test	Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G
IP Rating	Front Panel IP65 back cover IP41
Mounting Kit	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm Panel Mount with mounting kits
Power Requirement	DC in +9V ~ +36V, wide voltage single power input TVS component for surge protection Reverse current/voltage protection
Power Mode	AT/ATX
System Fan	Fanless
Construction - Front	Die Casting with Cover lens
Construction - Rear	Black Die Casting
Relative Humidity	40°C @ 95% Relative Humidity, Non-condensing
Drop	ISTA 2A, IEC-60068-2-32 Test:Ed
Software Support	
OS Information	Linux, Windows 10
Ordering Information	
Ordering Information	ARC-21W33-345-B2R 21.5" 1920x1080 Industrial Touch Panel PC, ErP Design, PCAP Multi Touch Intel Celeron SoC J3455 1.5GHz CPU/2GLAN/2COM/4USB/SPK/9~36V input/12V Adapter ACC-ARC-USB-1R 4 x USB 3.0 Kit for ARC Series ACC-ARC-AUDIO-1R HDMI + 5.1 CH Audio Kit for ARC Series ACC-ARC-MPCIE-1R HDMI + MPCIE w/SIM Kit for ARC Series ACC-ARC-COM-1R 2 x Isolated RS-232 Kit for ARC Series ACC-ARC-COM-2R 3 x RS-232 Kit for ARC Series ACC-ARC-COM-3R 2 x RS-232 + USB Kit for ARC Series ACC-ARC-COM-4R 2 x RS-232 + LAN Kit for ARC Series ACC-ARC-GPIO-1R 12-bit GPIO + 2-pin CAN Bus Kit for ARC Series ACC-ARC-OBDDI-1R OBDII - CAN Bus Kit for ARC Series (OBDII/EOBD for Small Vehicle) ACC-ARC-OBDDI-2R OBDII - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle) ACC-ARC-OBDDI-3R OBDII - CAN Bus Kit for ARC Series (ISO15765-4 for Special Large Vehicle) ACC-ADP-060N-08R AC/DC adapter 12V/5A 90 degree Screw Type E1702031833R USA Power Cord E1702031000R EU Power Cord E1702031834R Japan Power Cord E1702031830R UK Power Cord E1702031831R Australia Power Cord

Assured Systems

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