



## ARC-1033

### 10.4" Intel® Apollo Lake Fanless Rugged Touch Panel PC with IET Expansion

- > 10.4" XGA LCD with 5-wire Resistive Touch
- > Onboard Intel® Apollo Lake SoC BGA Processor
- > 1 x 204-pin DDR3L SODIMM Socket, Supports Up to 8GB DDR3L 1600MTs SDRAM
- > 2LAN, 2COM, 4USB3
- > Available Expansion for Audio, USB, COM, HDMI, MPCle, GPIO, CAN Bus
- > Rugged Design for Vibration & Shock Protection, Cableless Design
- > Fanless Operation from -10 ~ 50°C (N3350/N4200), -20 ~ 60°C (E3950)
- > Wide Range DC Power Input from +9 ~ 36Vdc
- > Service Window, Easy to Install Memory Module
- > IP65 Compliant Front Panel, IP41 Rear Box
- > TPM2.0 (optional)

#### Spec

##### System Information

<b>Processor</b>	Onboard Intel® Apollo Lake SoC BGA Processor (Apollo Lake Platform N4200/ N3350/ E3950 CPU)
<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>TPM</b>	TPM 2.0 (by optional)
<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 1 x 80-pin IET interface
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##### 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>	10.4" 4:3
<b>Display Type</b>	XGA
<b>B/L Inverter/Converter</b>	LCD built in
<b>Resolution</b>	1024x768
<b>Pixel pitch</b>	0.0685mm(H) x 0.2055mm(V)
<b>Luminance</b>	500 cd/m2
<b>Contrast ratio</b>	1200
<b>Viewing angle</b>	88 (U), 88 (D), 88 (L), 88 (R)
<b>Response time</b>	25 ms
<b>Backlight</b>	LED
<b>Touch Type</b>	5 Wires resistive
<b>Touch Light Transmission</b>	80 %
<b>Touch Controller</b>	Onboard USB touch (PenMount)

##### I/O

<b>USB Port</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) 1 x RS-232
<b>DIO</b>	16-bit GPIO
<b>Expansion</b>	1 x mSATA supports on the 1st Mini PCIe slot, Auto switch for mSATA or Mini PCIe 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
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##### DC In/Out Characteristics

<b>Power Type</b>	AT/ATX
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##### Audio

<b>Audio Codec</b>	Realtek ALC888S
<b>Audio Interface</b>	speaker out
<b>Speaker Output</b>	2 x 2W

##### Certifications

<b>Certification Information</b>	CE / FCC Class B
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##### Ethernet

<b>LAN Port</b>	2 x Intel I211AT for N3350/N4200 2 x Intel® I210IT for E3950
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##### Power Requirement



<b>DC Input</b>	DC +9V ~ +36V, wide voltage single power input TVS component for surge protection Reverse current/voltage protection
<b>DC Input Connector</b>	Lockable DC Jack (Default) optional for phoenix connector
<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
<b>Mechanical &amp; Environmental</b>	
<b>Operating Temperature</b>	N3350/ N4200: -10°C ~ 50°C (-14°F ~ 122°F) E3950: -20°C ~ 60°C (-4°F ~ 140°F)
<b>Storage Temperature</b>	-30°C ~ 70°C (-22°F ~ 158°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (W x L x H)</b>	259.6 x 195.8 x 46mm
<b>Weight</b>	2.3Kgs
<b>Vibration Test</b>	With SSD/mSATA : 2.24Grms, 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>IP Rating</b>	Front Panel IP65 back cover IP41
<b>Power Requirement</b>	DC +9V ~ +36V, wide voltage single power input TVS component for surge protection Reverse current/voltage protection
<b>Power Mode</b>	AT/ATX
<b>System Fan</b>	Fanless
<b>Construction - Front</b>	Silver Aluminum
<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>Software Support</b>	
<b>OS Information</b>	Linux, Windows 10
<b>Ordering Information</b>	
<b>Ordering Information</b>	<p>ARC-1033-335-A4R 10.4" 1024x768 Industrial Touch Panel PC, ErP Design (F1 Stepping CPU) Intel Celeron SoC N3350 1.10GHz CPU/888S/4GDDR3L/2GLAN/2COM/4USB/SPK/9~36V input/12V Adapter</p> <p>ARC-1033-WMB-A4R 10.4" 1024x768 Industrial Touch Panel PC, ErP Design/ Back panel Mount (F1 Stepping CPU) Intel Celeron SoC N3350 1.10GHz CPU/888S/4GDDR3L/2GLAN/2COM/4USB/SPK/9~36V input/12V Adapter</p> <p>ACC-ARC-USB-1R 4 x USB 3.0 Kit for ARC Series</p> <p>ACC-ARC-AUDIO-1R HDMI + 5.1 CH Audio Kit for ARC Series</p> <p>ACC-ARC-MPCIE-1R HDMI + MPCIE w/SIM Kit for ARC Series</p> <p>ACC-ARC-COM-1R 2 x Isolated RS-232 Kit for ARC Series</p> <p>ACC-ARC-COM-2R 3 x RS-232 Kit for ARC Series</p> <p>ACC-ARC-COM-3R 2 x RS-232 + USB Kit for ARC Series</p> <p>ACC-ARC-COM-4R 2 x RS-232 + LAN Kit for ARC Series</p> <p>ACC-ARC-GPIO-1R 12-bit GPIO + 2-pin CAN Bus Kit for ARC Series</p> <p>ACC-ARC-OBDI-1R OBDI - CAN Bus Kit for ARC Series (OBDI/EOBD for Small Vehicle)</p> <p>ACC-ARC-OBDI-2R OBDI - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle)</p> <p>ACC-ARC-OBDI-3R OBDI - CAN Bus Kit for ARC Series (ISO15765-4 for Special Large Vehicle)</p>