



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-	
Processor	Onboard Intel® Apollo Lake SoC BGA Processor (Apollo Lake Platform N4200/ N3350/ E3950 CPU)
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
HW Status Monitor	Monitoring CPU & System Temperature and Voltage
TPM	TPM 2.0 (by optional)
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	10.4" 4:3
Display Type	XGA
B/L Inverter/Converter	LCD built in
Resolution	1024x768
Pixel pitch	0.0685mm(H) x 0.2055mm(V)
Luminance	500 cd/m2
Contrast ratio	1200
Viewing angle	88 (U), 88 (D), 88 (L), 88 (R)
Response time	25 ms
Backlight	LED
Touch Type	5 Wires resistive
Touch Light Transmission	80 %
Touch Controller	Onboard USB touch (PenMount)
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
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
Audio Interface	speaker out
Speaker Output	2 x 2W
Certifications	
Certification Information	CE / FCC Class B
Ethernet	
LAN Port	2 x Intel I211AT for N3350/N4200 2 x Intel® I210IT for E3950
Power Requirement	

DC Input	DC +9V ~ +36V, wide voltage single power input TVS component for surge protection Reverse current/voltage protection
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	N3350/ N4200: -10°C ~ 50°C (-14°F ~ 122°F) E3950: -20°C ~ 60°C (-4°F ~ 140°F)
Storage Temperature	-30°C ~ 70°C (-22°F ~ 158°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (W x L x H)	259.6 x 195.8 x 46mm
Weight	2.3Kgs
Vibration Test	With SSD/mSATA : 2.24Grms, 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
Power Requirement	DC +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	Silver Aluminum
Construction - Rear	Black Die Casting
Relative Humidity	0~90% Relative Humidity, Non-condensing
Fanless	Yes
Drop	ISTA 2A, IEC-60068-2-32 Test:Ed
Software Support	
OS Information	Linux, Windows 10
Ordering Information	
Ordering Information	<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 OBDII - CAN Bus Kit for ARC Series (OBDII/EOBD for Small Vehicle)</p> <p>ACC-ARC-OBDI-2R OBDII - CAN Bus Kit for ARC Series (J1939/J1708 for Large Vehicle)</p> <p>ACC-ARC-OBDI-3R OBDII - CAN Bus Kit for ARC Series (ISO15765-4 for Special Large Vehicle)</p> <p>E1702031833R USA Power Cord</p> <p>E1702031000R EU Power Cord</p> <p>E1702031834R Japan Power Cord</p> <p>E1702031830R UK Power Cord</p> <p>E1702031831R Australia Power Cord</p>

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