

ARC-1033

10.4" Intel® Celeron® Processor N3350 Fanless Rugged
Touch Panel PC with IET Expansion



Features

- 10.4" XGA LCD with 5-wire resistive touch
- Intel® Celeron® Processor N3350
- 1 x 204-pin DDR3L SODIMM socket, supports up to 8GB DDR3L 1600MTs SDRAM
- 2LAN, 2COM, 4USB3
- Available expansion for audio, USB, COM, HDMI, PCIe, GPIO, CAN bus
- Rugged design for vibration & shock protection
- 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)



Wide Voltage
+9 ~ 36Vdc



Resistive



Fanless



Wide Temp.
-10°C ~ 50°C



Front IP65
Rear IP41

Specifications

System Information

Processor	Intel® Celeron® Processor N3350, 2M Cache, up to 2.40 GHz
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
TPM	TPM 2.0 (by optional)
SBC	ARC-APL
CPU Cooler (Type)	Fanless heatsink
Other	3 x Knockouts for antenna mounting

Expansion

Expansion	1 x mSATA support on the 1st mini PCIe slot, auto switch for mSATA or mini PCIe 1 x optional by IET module
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Storage

Storage	1 x 2.5 Drive bay (7mm HDD restricted)
HDD/ SSD	1 x SATA3
Other Storage Device	1 x mSATA support on the 1st mini PCIe slot, auto switch for mSATA or mini PCIe

Audio

Audio Codec	Realtek ALC888S
Speaker Output	2 x 2W

Ethernet

LAN Chipset	2 x Intel® I210IT for E3950 2 x Intel I211AT for N3350/N4200
Ethernet Interface	10/100/1000 Base-Tx GbE compatible

Power Requirement

DC Input	+9V ~ +36V
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

Software Support

OS	Win 10 / Linux
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Certification

Certification Information	CE / FCC Class B
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Internal I/O

DIO	16-bit GPIO
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System Control

LED Indicator	HDD LED, power LED
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Panel

LCD Size	10.4", 4:3
Display Type	XGA
Resolution	1024 x 768
Pixel pitch	0.0685mm (H) x 0.2055mm (V)
Luminance	500 cd/m ²
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)

External I/O

USB	4 x USB3.0 (2 x double deck)
LAN Port	2 x RJ-45
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

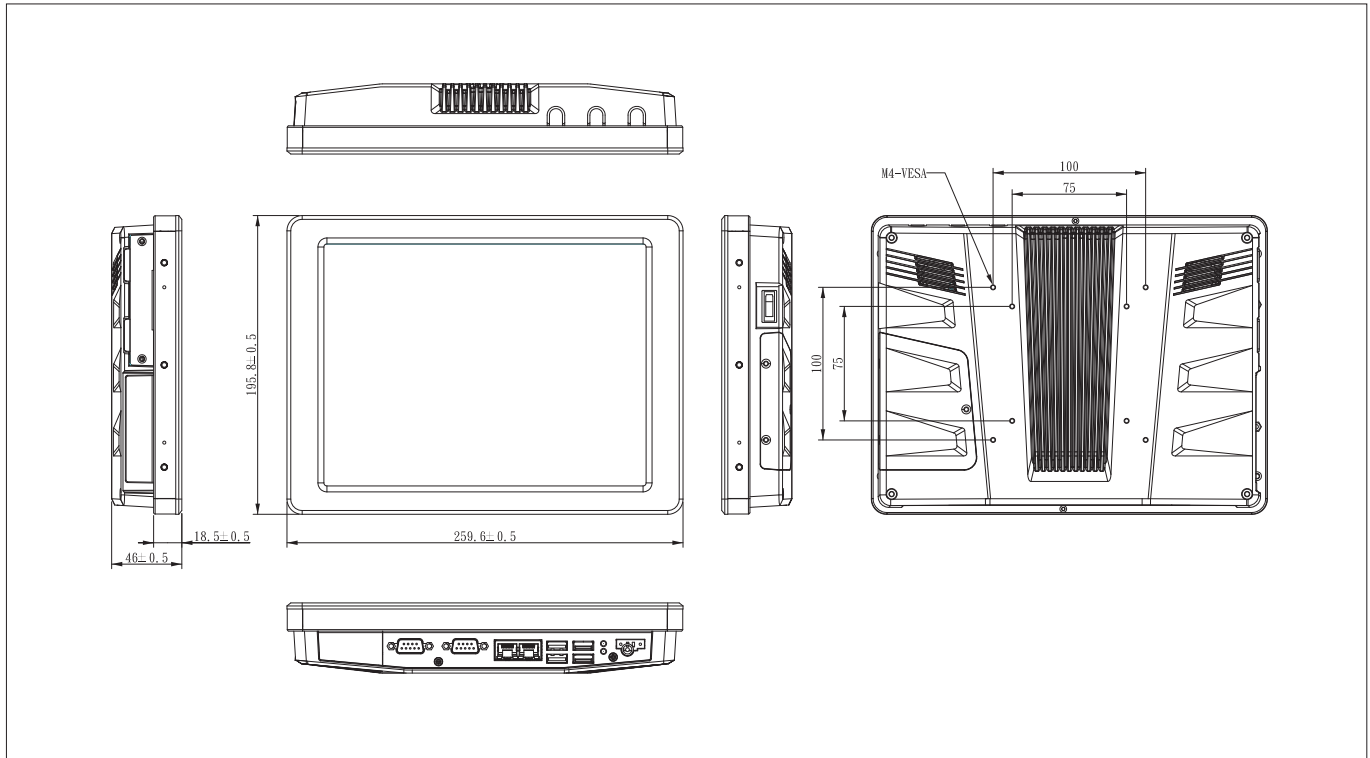
Mechanical & Environmental

Operating Temp.	N3350/ N4200: -10°C ~ 50°C (-14°F ~ 122°F) E3950: -20°C ~ 60°C (-4°F ~ 140°F)
Storage Temp.	-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	2.3 Kg
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
Drop Test	ISTA 2A, IEC-60068-2-32 Test:Ed
IP Rating	Front panel IP65, Back cover IP41
Mounting Kit	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm
Power Mode	AT/ATX (ATX is default)
System Fan	Fanless
Construction - Front	Silver aluminum
Construction - Rear	Black die casting

Component

Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W adapter (12V @ 5A adapter) AC-DC adapter
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Mechanical Drawing



Ordering Information

P/N	Touch Type	Processor	Memory	Storage	Resolution	Luminance	COM	USB	LAN	Power Input	Working Temp.	OS Support
ARC-1033-335-A4R	Resistive	N3350	1 x 204-pin DDR3L SODIMM	1 x 2.5 Drive bay (7mm HDD restricted)	1024 x 768	500	2	4	2	+9V ~ +36V	-10°C ~ 50°C	Win 10 / Linux
ARC-1033-WMB-A4R	Resistive	N3350	1 x 204-pin DDR3L SODIMM	1 x 2.5 Drive bay (7mm HDD restricted)	1024 x 768	500	2	4	2	+9V ~ +36V	-10°C ~ 50°C	Win 10 / Linux

Packing List

Item	P/N	Quantity
ARC-1033-335-A4R		
AC/DC adapter 12V/5A 90 Screw Type	ACC-ADP-060N-08R	1
HDD shockproof Rubber	ACC-RUBBER-0001R	4
M4 x 6mm Screw for VESA	ACC-SCREW-0002R	4
M3 x 8mm Screw for HDD	ACC-SCREW-0005R	4
ARC-1033-WMB-A4R		
AC/DC adapter 12V/5A 90 Screw Type	ACC-ADP-060N-08R	1
HDD shockproof Rubber	ACC-RUBBER-0001R	4
M4 x 6mm Screw for VESA	ACC-SCREW-0002R	4
M3 x 4mm Screw for HDD	ACC-SCREW-0003R	4
M3 x 8mm Screw for HDD	ACC-SCREW-0005R	4
Screw-Round M4x25mm	E1935052510R	6
Bracket for mounting	E195BMAR103300R	6
IP65 Wall mounting Bracket	E1962LP2018R	6
Plastics spacer support D7.7x8	E199PS00002R	6

Optional Items

Item	P/N
4 x USB 3.0 Kit for ARC Series	ACC-ARC-USB-1R
HDMI + 5.1 CH Audio Kit for ARC Series	ACC-ARC-AUDIO-1R
HDMI + MPCIE w/SIM Kit for ARC Series	ACC-ARC-MPCIE-1R
2 x Isolated RS-232 Kit for ARC Series	ACC-ARC-COM-1R
3 x RS-232 Kit for ARC Series	ACC-ARC-COM-2R
2 x RS-232 + USB Kit for ARC Series	ACC-ARC-COM-3R
2 x RS-232 + LAN Kit for ARC Series	ACC-ARC-COM-4R
12-bit GPIO + 2-pin CAN Bus Kit for ARC Series	ACC-ARC-GPIO-1R
OBDII - CAN Bus Kit for ARC Series (OBDII/EObd for Small Vehicle)	ACC-ARC-OBDII-1R
OBDII - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle)	ACC-ARC-OBDII-2R
OBDII - CAN Bus Kit for ARC Series (ISO15765-4 for Special Large Vehicle)	ACC-ARC-OBDII-3R
USA Power Cord	E1702031833R
EU Power Cord	E1702031000R
Japan Power Cord	E1702031834R
UK Power Cord	E1702031830R
Australia Power Cord	E1702031831R

I/O Overview

