

ARC-21W33

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



Features

- 21.5" Full HD LCD with PCAP multi-touch
- Intel® Celeron® Processor J3455
- 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
- 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)



Wide Voltage
+9 ~ 36Vdc



PCAP
multi-touch



Fanless



Wide Temp.
-10°C ~ 50°C



Front IP65
Rear IP41

Specifications

System Information

Processor	Intel® Celeron® Processor J3455, 2M Cache, up to 2.30 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
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 80-pin IET interface
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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® I210AT for APL-M
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 (option by IET DB)
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System Control

LED Indicator	HDD LED, power LED
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Panel

LCD Size	21.5" 16:9
Display Type	Full HD
Resolution	1920 x 1080
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	Projective capacitive multi-touch up to 10 points
Touch Light Transmission	89%
Touch Controller	EETI

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.	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temp.	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	40°C @ 95% Relative humidity, non-condensing
Dimension (W x L x H)	538.05 x 341.05 x 60.05mm
Weight	7.3 Kg
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
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 Panel mount with mounting kits
Power Mode	AT/ATX (ATX is default)
System Fan	Fanless
Construction - Front	Die casting with cover lens
Construction - Rear	Black die casting

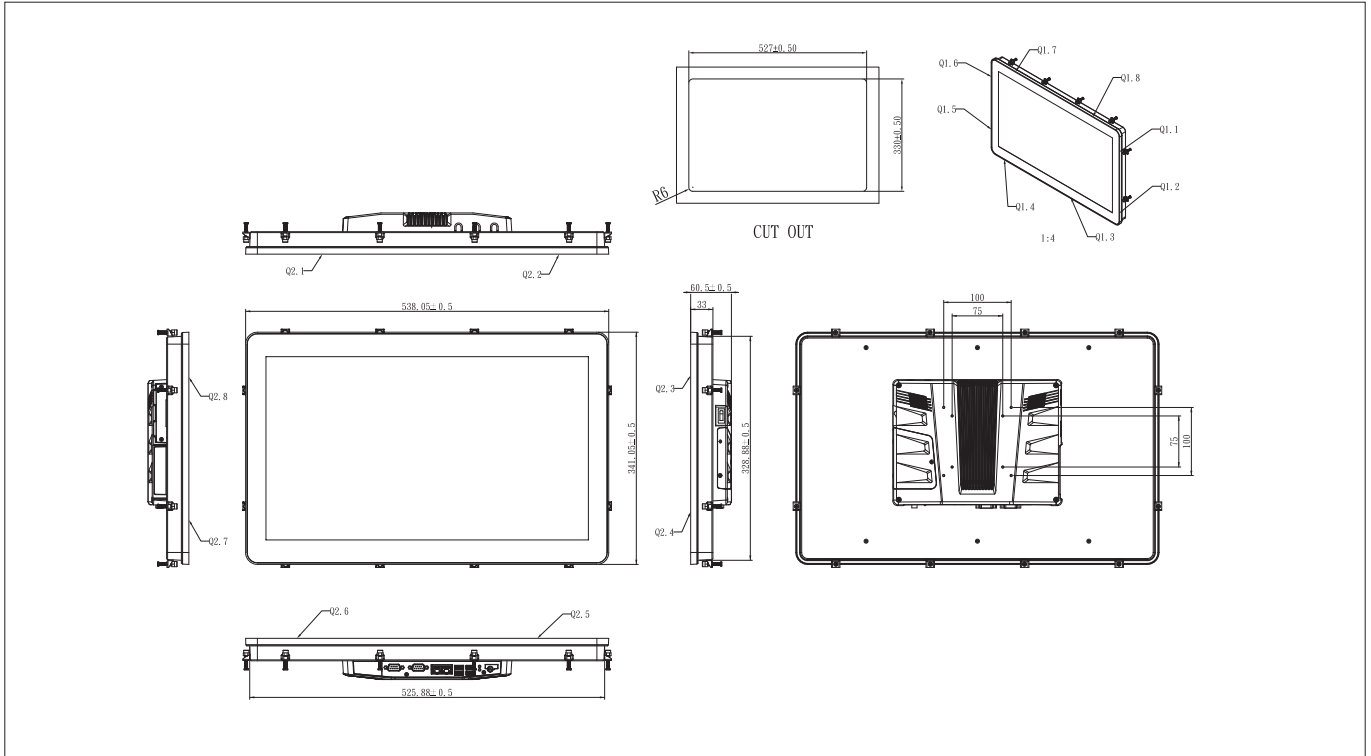
Component

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-21W33-345-B3R	PCAP	J3455	1 x 204-pin DDR3L SODIMM	1 x 2.5 Drive bay (7mm HDD restricted)	1920 x 1080	250	2	4	2	+9V ~ +36V	-10°C ~ 50°C	Win 10 / Linux

Packing List

Item	P/N	Quantity
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
Screw-Round M4*25mm	E1935052510R	12
Bracket for Panel Mount	E195BKAR120915R	12
Plastics spacer support D7.7*8	E199PS00002R	12

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/E0BD 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
AC/DC adapter 12V/5A 90 degree Screw Type	ACC-ADP-060N-08R
USA Power Cord	E1702031833R
EU Power Cord	E1702031000R
Japan Power Cord	E1702031834R
UK Power Cord	E1702031830R
Australia Power Cord	E1702031831R

I/O Overview

