

ARC-18W33

18.5" with WXGA PCAP Multi-touch Intel® Celeron® Processor J3455 Rugged Touch Panel PC with IET Expansion



Product Features

- 18.5" WXGA LCD with PCAP multi-touch
- 1 x 204-pin DDR3L SODIMM socket, supports up to 8GB DDR3L 1600MTs SDRAM
- 1x Mini PCIe slot
- Fanless operation from -10 ~ 50°C
- Service window, easy to install memory module
- CE/FCC Class B, VCCI
- Intel® Celeron® Processor J3455 SoC BGA Processor
- Rich I/Os, 2 LAN, 2 COM, 4 USB, SIM card slot, swappable drive bay, speaker out for flexible expansion modules
- Rugged design for vibration & shock protection
- Wide range DC power input from +9 ~ 36Vdc
- Front panel: IP65, rear: IP41(except I/O)
- TPM2.0 (optional)

Specification

| System Information | |
|--------------------|---|
| Processor | Intel® Celeron® Processor J3455, 2M Cache, up to 2.30 GHz |
| System Memory | 1 x 204-pin DDR3L SODIMM socket, supports up to 8GB DDR3L 1600Mhz SDRAM (non-ECC) |
| I/O Chipset | EC ITE IT8528E |
| Watchdog Timer | H/W reset, 1sec. ~ 65535sec./1sec.step |
| H/W Status Monitor | Monitoring CPU & system temperature and voltage |
| TPM | 2.0 (optional) |
| SBC | ARC-APL |
| CPU Cooler (Type) | Fanless heatsink |
| Other | 3 x Knockouts for antenna mounting |

Expansion

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|------------------|--|
| Expansion | 1 x Mini PCIe full size (support half size), also support mSATA on this Mini PCIe slot, Auto switch for mSATA or Mini PCIe 1 x 80-pin IET interface |
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Storage

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|-----------------------------|---|
| 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

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|-----------------------|-----------------|
| Audio Codec | Realtek ALC888S |
| Speaker Output | 2 x 2W |

Ethernet

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|---------------------------|------------------------------------|
| LAN Chipset | 2 x Intel I210AT for APL-M |
| Ethernet Interface | 10/100/1000 Base-Tx GbE compatible |

Power Requirement

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|---------------------------|--|
| 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

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|-----------|----------------|
| OS | Win 10 / Linux |
|-----------|----------------|

Certification

| | |
|----------------------------------|----------------------|
| Certification Information | CE/FCC Class B, VCCI |
|----------------------------------|----------------------|

Panel

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|---------------------|-----------------------|
| LCD Size | 18.5", 16:9 |
| Display Type | WXGA |
| Resolution | 1366 x 768 |
| Pixel pitch | 0.1(H) x 0.3mm(V) |
| Luminance | 500 cd/m ² |

| | |
|-----------------------|---|
| Contrast ratio | 1000 |
| Viewing angle | 89 (U), 89 (D), 89 (L), 89 (R) |
| Response time | 14 ms |
| Backlight | LED |
| Touch Type | Projective capacitive multi-touch up to 10 points |

External I/O

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|-----------------|---|
| USB Port | 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 |

Internal I/O

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|-------------|-----------------------------|
| SATA | 1x SATA III connector |
| DIO | 12-bit GPIO + 2-pin CAN Bus |

System Control

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|----------------------|--------------------|
| LED Indicator | HDD LED, power LED |
|----------------------|--------------------|

Mechanical & Environmental

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|------------------------------|--|
| 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) | 460 x 285.2 x 55.5mm |
| Weight | 4.6 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

Ordering Information**Ordering Information**

ARC-18W33-345-B1R

18.5" 1366 x 768 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-OBDII-1R

OBDII - CAN Bus Kit for ARC Series (OBDII/EOBD for Small Vehicle)

ACC-ARC-OBDII-2R

OBDII - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle)

ACC-ARC-OBDII-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

