



ARC-1238-B

12.1" 11th Gen. Intel® Core™ Processor i7/i5/i3
Fanless Rugged Touch Panel PC with IET
Expansion

- > Onboard 11th Gen. Intel®Core™ i7/i5/i3 BGA Processor
- > 1 x 260-pin SODIMM socket Max. up to **32GB** DDR4 3200MT/s
- > 4 x USB3.2, 2 x COM
- > Dual Intel Gigabit LAN
- > 2 x M.2 Slots (Key-B 2242/3042/3052, Key-E 2230)
- > Wide Voltage +12V ~ +24V Input, ErP Power
- > Available Expansion for Audio, USB, COM, HDMI, MPCle, GPIO
- > IP65 Compliant Front Panel, IP41 Rear Box
- > 10 Point Multi Touch
- > TPM 2.0 Function
- > Fanless Operation from -10°C ~ 50°C (14°F ~ 122°F)

+ Spec

| -System Information- | |
|----------------------------------|---|
| Processor | 11th Gen Intel® Core™ i7/i5/i3 BGA Processor Intel® Core™ i7- 1185G7E (15W, 12M Cache, up to 2.80 GHz), ST Intel® Core™ i5- 1145G7E (15W, 8M Cache, up to 2.60 GHz), ST Intel® Core™ i3- 1115G4E (15W, 6M Cache, up to 3.00 GHz), ST |
| System Memory | 1 x 260-pin SODIMM socket Max. up to 32GB DDR4 3200MT/s |
| I/O Chipset | EC ITE IT8528E |
| Watchdog Timer | H/W Reset, 1sec. ~ 65535min. and 1sec. or 1min./step |
| H/W Status Monitor | Monitoring CPU & System Temperature and Voltage |
| TPM | Onboard NuvoTon NPCT754AABYX support TPM 2.0 |
| SBC | ARC-TGL |
| Expansion | |
| Expansion | 1 x M.2 Key-B 2242/3042/3052 with SIM card slot Support SATA3 / PCIe & USB for LTE(4/5G) / NVMe(BOM option for PCIe x2) 1 x M.2 Key-E 2230 Support PCIe/USB/CNVi Wi-Fi/BT module 1 x 80-pin IET interface |
| Storage | |
| Storage | 1 x 2.5" Drive Bay (7mm HDD Restricted) |
| Panel | |
| LCD Size | 12.1", 4:3 |
| Display Type | XGA |
| Resolution | 1024 x 768 |
| Pixel pitch | 0.240 mm (H) x 0.240 mm (V) |
| Luminance | 600 cd/m ² |
| Contrast ratio | 1000 |
| Viewing angle | 89 (U), 89 (D), 89 (L), 89 (R) |
| Response time | 13 ms |
| Backlight | LED |
| Touch Type | Projective Capacitive Multi-Touch up to 10 points |
| Touch Light Transmission | 89 % |
| Touch Controller | USB touch (EETI) |
| I/O | |
| USB Port | 4 x USB 3.2 |
| COM Port | 1 x RS-232/422/485 1 x RS-232 |
| SATA | 1 x SATA III |
| Other | 7 x Knockouts for Antenna Mounting *5 from rear cover + 2 from IET bracket |
| Display | |
| Graphic Chipset | Intel® Tiger Lake UP3 SoC integrated Graphics Supports optional dual display |
| Spec. & Resolution | HDMI: Max. resolution 4096x2160 @ 24Hz (Optional by IET module) |
| Audio | |
| Audio Codec | Realtek ALC888S(co-layout 897) |
| Speaker Output | 2 x 2W |
| Certifications | |
| Certification Information | CE/ FCC class B |
| Ethernet | |



| | |
|---------------------------------------|--|
| LAN Chipset | 1 x Intel® I225LM 2.5 Gigabit Ethernet 1 x Intel® I219LM Gigabit Ethernet PHY |
| Ethernet Interface | 10/100/1000 Base-Tx GbE compatible |
| LAN Port | 2 x RJ-45 |
| Power Requirement | |
| DC Input | +12V ~ +24V |
| DC Input Connector | Lockable DC Jack |
| Adapter | Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 72W Adapter (19V @ 3.78A Adapter) AC-DC Adapter |
| Mechanical & Environmental | |
| Operating Temperature | -10°C ~ 50°C (14°F ~ 122°F) |
| Storage Temperature | -20°C ~ 60°C (-4°F ~ 140°F) |
| Operating Humidity | 40°C @ 95% Relative Humidity, Non-condensing |
| Weight | 2.4Kgs |
| Vibration Test | With SSD/mSATA : 3Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30 mins/axis |
| Shock Test | Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G |
| IP Rating | Front IP65 Rear IP41 |
| Mounting Kit | Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm |
| Power Mode | AT/ATX (ATX is default setting) |
| System Fan | Fanless |
| Construction - Front | Die Casting with Cover lens |
| Construction - Rear | Black Die Casting |
| Dimension | 292.86 x 225.4 x 51.5 mm |
| Software Support | |
| OS Information | Win10 / 11/ Linux |
| Ordering Information | |
| Ordering Information | <p>ARC-1238-57E-B1-1R 12.1" 1024x768 Industrial PCAP Touch Panel PC, ErP Design, (ALC888S) 11th Gen Intel Core i5-1145G7E 1.50 GHz CPU/2GLAN/2COM/4USB/SPK/12~24V input/19V Adapter</p> <p>Optional IET Module list:</p> <p>ACC-ARC-USB-01R 4 x USB 3.0 IET module for ARC-1535/1538</p> <p>ACC-ARC-AUDIO-01R HDMI + 5.1 CH audio IET module for ARC-1535/1538</p> <p>ACC-ARC-MPCIE-02R HDMI + MPCIE w/SIM IET module for ARC-1535/1538</p> <p>ACC-ARC-COM-01R 2 x Isolated RS-232 IET module for ARC-1535/1538</p> <p>ACC-ARC-COM-02R 3 x RS-232 IET module for ARC-1535/1538</p> <p>ACC-ARC-COM-03R 2 x RS-232 + USB IET module for ARC-1535/1538</p> <p>ACC-ARC-COM-04R 2 x RS-232 + LAN IET module for ARC-1535/1538</p> <p>ACC-ARC-GPIO-01R 12-bit GPIO + 2-pin CAN bus IET module for ARC-1535/1538</p> <p>ACC-ARC-OBDDI-01R OBDDI - CAN bus IET module for ARC-1535/1538 (OBDDI/OBD for small vehicle)</p> <p>ACC-ARC-OBDDI-02R OBDDI - CAN bus IET module for ARC-1535/1538 (J1939J1708 for large vehicle)</p> <p>ACC-ARC-OBDDI-03R OBDDI - CAN bus IET module for ARC-1535/1538 (ISO15765-4 for special large vehicle)</p> <p>E1702031835R USA Power Cord E170203183DR EU Power Cord E170203183BR Japan Power Cord E170203183ER UK Power Cord E1702031800R Australia Power Cord</p> |