



ARC-1238

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, PCIe, GPIO
- > IP65 Compliant Front Panel, IP41 Rear Box
- > 5-wire Resistive Touch
- > TPM 2.0 Function (Optional)
- > 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 (by option)
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
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Storage

Storage	1 x 2.5" Drive Bay (7mm HDD Restricted)
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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	11 ms
Backlight	LED
Touch Type	5 Wires resistive
Touch Light Transmission	80 %
Touch Controller	Onboard USB touch (PenMount)

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
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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	Silver Aluminum
Construction - Rear	Black Die Casting
Dimension	283 x 221.1 x 51.2 mm
Software Support	
OS Information	Win10 / Linux
Ordering Information	
Ordering Information	<p>ARC-1238-57E-A1R 12.1" 1024x768 Industrial Touch Panel PC, ErP Design, (ALC888S) 11th Gen Intel Core i5-1145G7E 1.50 GHz CPU/4G DDR4/2GLAN/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>