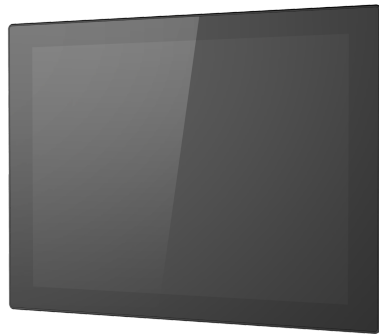




ARC-1238-B

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

Onboard 11th Gen. Intel®Core™ i7/i5/i3 BGA Pro
1 x 260-pin SODIMM socket Max. up to **32GB** D
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 22
Wide Voltage +12V ~ +24V Input, ErP Power
Available Expansion for Audio, USB, COM, HDM
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 ~ 12

+ 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 x 2)

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/m²

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	

W



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	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 Optional IET Module list: ACC-ARC-USB-01R 4 x USB 3.0 IET module for ARC-1535/1538 ACC-ARC-AUDIO-01R HDMI + 5.1 CH audio IET module for ARC-1535/1538 ACC-ARC-MPCIE-02R HDMI + MPCIE w/SIM IET module for ARC-1535/1538 ACC-ARC-COM-01R 2 x Isolated RS-232 IET module for ARC-1535/1538 ACC-ARC-COM-02R 3 x RS-232 IET module for ARC-1535/1538 ACC-ARC-COM-03R 2 x RS-232 + USB IET module for ARC-1535/1538 ACC-ARC-COM-04R 2 x RS-232 + LAN IET module for ARC-1535/1538 ACC-ARC-GPIO-01R 12-bit GPIO + 2-pin CAN bus IET module for ARC-1535/1538 ACC-ARC-OBDDII-01R OBDDII - CAN bus IET module for ARC-1535/1538 (OBDDII/EOBD for small vehicle) ACC-ARC-OBDDII-02R OBDDII - CAN bus IET module for ARC-1535/1538 (J1939J1708 for large vehicle)

- E1702031835R USA Power Cord
- E170203183DR EU Power Cord
- E170203183BR Japan Power Cord
- E170203183ER UK Power Cord
- E1702031800R Australia Power Cord

