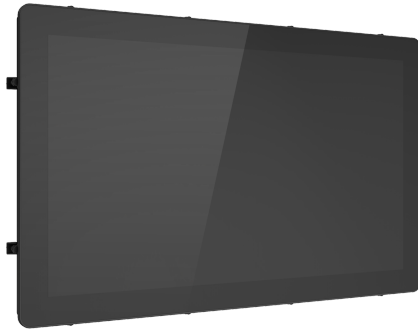




ARC-21W38

**21.5" 11th Gen. Intel® Core™ Processor i7/
Fanless Rugged Touch Panel PC with IET
Expansion**

Onboard 11th Gen. Intel®Core™ i7/i5/i3 BGA Processor
Full Flat Front Panel with Projected Capacitive Touch
Supports Multi Touch
One 260-pin SODIMM sockets supports up to 32GB
3200 SDRAM
4 x USB3.2, 2 x COM
Dual Intel Gigabit LAN
2 x M.2 Slots (Key-B 2242/3042/3052, Key-E 2230)
Support Wi-Fi / BT / 4G / 5G (by option)
Wide Voltage +12V ~ +24V Input, ErP Power
Available Expansion for Audio, USB, COM, HDM, GPIO, CAN Bus
IP65 Compliant Front Panel, IP41 Rear Box
With Panel Mount kits included
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 DDR4 3200MHz SO-DIMM up to 32 GB

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

21.5", 16:9

Display Type

Full HD

Resolution

1920 x 1080

Pixel pitch

247.95um(H) x 247.95um(V)

Luminance

500 cd/m²

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

Touch Light Transmission

89 %

Touch Controller

USB touch (EETI)

.I/O

USB Port

4 x USB 3.0

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

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: 120W Adapter (24V @ 5.0A 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	7.3 Kgs
Vibration Test	With SSD/M.2 SSD : 3Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30mins/axis
Shock Test	Operating with SSD/M.2 : 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 Panel Mount with mounting kits
Power Mode	AT/ATX (ATX is default setting)
System Fan	Fanless
Construction - Front	Die Casting with Cover lens
Construction - Rear	Black Die Casting
Dimension	538.05 x 341.05 x 63.55mm

.Software Support

OS Information	Win10 / Linux
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.Ordering Information

Ordering Information	ARC-21W38-57E-B1R 21.5" 1920x1080 Industrial Touch Panel PC, ErP Design, PCAP Multi Touch(ALC888S) 11th Gen Intel Core i5-1145G7E 1.50 GHz CPU/2GLAN/2COM/4USB/SPK/12~24V input/24V Adapter
	Optional IET Module list:
	ACC-ARC-USB-01R 4 x USB 3.0 IET module for ARC-1535/38
	ACC-ARC-AUDIO-01R HDMI + 5.1 CH audio IET module for ARC-1535/38
	ACC-ARC-MPCIE-02R HDMI + MPCIE w/SIM IET module for ARC-1535/38
	ACC-ARC-COM-01R 2 x Isolated RS-232 IET module for ARC-1535/38
	ACC-ARC-COM-02R 3 x RS-232 IET module for ARC-1535/38
	ACC-ARC-COM-03R 2 x RS-232 + USB IET module for ARC-1535/38
	ACC-ARC-COM-04R 2 x RS-232 + LAN IET module for ARC-1535/38
	ACC-ARC-GPIO-01R 12-bit GPIO + 2-pin CAN bus IET module for ARC-1535/38
	ACC-ARC-OBDDI-01R

OBDDII - CAN bus IET module for ARC-1535/38 (OBDDII/EOBD for small vehicle)

ACC-ARC-OBDDII-02R

OBDDII - CAN bus IET module for ARC-1535/38 (J1939J1708 for large vehicle)

ACC-ARC-OBDDII-03R

OBDDII - CAN bus IET module for ARC-1535/38 (ISO15765-4 for special large vehicle)

E1702031835R USA Power Cord

E170203183DR EU Power Cord

E170203183BR Japan Power Cord

E170203183ER UK Power Cord

E1702031800R Australia Power Cord

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