



ARC-1738-C

17" 11th Gen Intel® Core™ Processor i5/i3 Fanless
Rugged Touch Panel PC

- > 17" Advanced Rugged panel PC
- > 10 points multiple PCAP touch
- > Onboard Tiger Lake U 11th Intel® Core™ SoC i5/i3 BGA Processor
- > 2 x 260-pin DDR4 3200 MHz SO-DIMM socket, supports up to 64GB Max
- > 2 x LAN, 4 x USB3.2 Gen2
- > 3 x USB2.0 (optional)
- > 1 x RS232/422/485, 2 x RS232(default)
- > 3 x RS232/GPIUSB2.0 (optional)
- > Wi-Fi & BT (optional)
- > Front Panel IP65
- > TPM2.0

+ Spec

-System Information-	
Processor	Onboard Tiger Lake U 11th Intel® Core™ SoC i5/i3 Processor
System Memory	2 x 260-pin DDR4 3200 MHz SO-DIMM socket, supports up to 64GB Max
Board	EMX-TGLC
Expansion	
Expansion	1 x M.2 Key B 3042/3052/2242/2260/2280 Support 1xPCIex1/SATA/USB3.0/USB2.0 with 1 x SIM card slot, support WWAN+GNSS 1 x M.2 Key E 2230 support WiFi module and CNVi (1 x PCI-e x1 & USB 2.0 Signal)
Storage	
Storage	M.2 Type B 3042/3052/2242/2260/2280 SSD (SATA/NVMe)
Solid State Drive	Reserve space for future 1 x 2.5" Drive Bay design
Panel	
LCD Size	17", 4:3
LCD Panel	AUO M170ETN01.1, 17" 1280*1024 250 nits
B/L Inverter/Converter	External LED Driving board
Display Type	SXGA
Resolution	1280 x 1024
Pixel pitch	0.264(H) x 0.264(V)mm
Luminance	250 nits
Contrast ratio	1000
Viewing angle	80 (U), 80 (D), 85 (L), 85 (R)
Response time	5ms
Backlight	TFT-LCD
Touch Type	10 point multiple PCAP touch
Touch Screen	17" PCAP
Touch Light Transmission	89 %
Touch Controller	ILLITEK IC2510P
I/O	
USB Port	4 x USB3.1 Gen2 3 x USB 2.0 (optional) *1 x USB2.0 for option shared the same port with COM
COM Port	COM1: RS232/422/485 COM2~3: RS232 COM4~6: 3 x RS232/GPIO/USB 2.0 (optional)
Antenna	6 x Antenna Mounting with Dust Cover 2x for WIF/BT 4x for 4G/5G
Display Port	2 x DP++: 1920 x 1080@60 Hz
Other	AUX-089 (SIM card expansion card)
Wireless Communication	
WLAN	IEEE802.11 ac/a/b/g/n 2.4 GHz, 5 GHz (optional)
Bluetooth	BT5.1 (optional)
Software Support	
OS	Windows 10/11 64bits, Linux
Audio	
Speaker Output	2 x 5W
Certifications	
Certification Information	CE / FCC Class A CCC
Ethernet	
LAN Chipset	1 x Intel® I219LM Gigabit Ethernet PHY (LAN1) 1 x Intel® I226LM 2.5 Gigabit Ethernet (LAN2)



LAN Port	2 x RJ-45
Power Requirement	
DC Input	+12~24V DC-in (Default: ATX)
DC Input Connector	mini-DIN 4pin DC-in
Adapter	Input: 100~240Vac / 50~60Hz Output: 120W adapter (24V @ 5A)
Mechanical & Environmental	
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	392.7 x 325.3 x 71.65 mm
Weight	5.6Kgs
Ordering Information	
Ordering Information	ARC-1738-3G4-C1R ARC-1738 w/i3-1115G4/3COM/4USB/2LAN/2DP/Barebone, w/o Memory/storage/Kit ARC-1738-5G7-C1R ARC-1738 w/i5-1135G7/3COM/4USB/2LAN/2DP/Barebone, w/o Memory/storage/Kit C971XAR38C1000R Intel AX210 WIFI6 M.2 2230 A-Key kit C971XAR38C1001R Intel8265NGW M.2 2230 NGFF BT4.2 kit C971XAR38C1002R Wifi 802.11 ac/a/b/g/n, 2T2R, BT5.1 kit C971XAR38C1003R 4G LTE Module, SIM7600G-H-M2, SIMCOM C971XAR38C1004R SIMCOM, SIM8202G(USB3.0) C971XAR38C1005R COM Kit for ARC-1738-C1 C971XAR38C1006R USB Kit for ARC-1738-C1 C971XAR38C1007R GPIO Kit for ARC-1738-C1 C170P060040R US Power Cord SM001/3P+SM006/3P 1.83M C170P060050R EU Power Cord SH005/3P+SH006/3P 1.83M C170P060060R JP Power Cord SH001/3P+SH006/3P 1.83M C170P060070R UK Power Cord YP61A/3P+YC12/3P 1.83M C170P060080R AU Power Cord SH051/3P+SH006/3P 1.83M

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660