

ARC-1738-C

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



Features

- 17" Advanced Rugged Panel PC
- 10 points multiple PCAP touch
- 11th Generation Intel® Core™ i3/i5 Processors
- 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/GPIO/USB2.0 (optional)
- Wi-Fi & BT (optional)
- Front panel IP65
- TPM 2.0



+12V ~ +24V



PCAP
multi-touch



Fanless



0°C ~ 50°C



Front IP65
Rear IP41

Specifications

System Information

Processor	11th Generation Intel® Core™ i3/i5 Processors Intel® Core™ i5-1135G7 Processor, 8M Cache, up to 2.40 GHz Intel® Core™ i3-1115G4 Processor, 6M Cache, up to 3.00 GHz
System Memory	2 x 260-pin DDR4 3200 MHz SO-DIMM socket, supports up to 64GB max
SBC	EMX-TGLC
CPU Cooler (Type)	Fanless heatsink
Other	AUX-089 (SIM card expansion card)

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)
Other Storage Device	Reserve space for future 1 x 2.5 drive Bay design

Audio

Audio Codec	Realtek ALC897 co-lay ALC888S HD audio decoding controller (default ALC897)
Speaker Output	2 x 5W

Ethernet

LAN Chipset	1 x Intel® I219LM Gigabit Ethernet PHY (LAN1) 1 x Intel® I226LM 2.5 Gigabit Ethernet (LAN2)
Ethernet Interface	Intel® I219LM : 10/100/1000 Base-Tx GbE compatible Intel® I226LM: 10/100/1000/2.5G Base-Tx GbE compatible

Power Requirement

DC Input	+12V ~ +24V
DC Input Connector	Lockable DC Jack (default), Optional for phoenix connector
ACPI	Single power ATX support S0, S3, S4, S5 and ACPI 3.0 compliant

Software Support

OS	Win10 / Win11 / Linux
----	-----------------------

Certification

Certification Information	CE / FCC Class A / CCC
---------------------------	------------------------

System Control

LED Indicator	HDD LED, power LED
---------------	--------------------

Data Communication

WLAN	IEEE802.11 ac/a/b/g/n 2.4 GHz, 5 GHz (optional)
Bluetooth	BT5.1 (optional)

Panel

LCD Size	17", 4:3
LCD Panel	AUO M170ETN01.1, 17" 1280 x 1024 250 nits
Display Type	SXGA
Resolution	1280 x 1024
Pixel Pitch	0.264mm (H) x 0.264mm (V)
Luminance	250 cd/m²
Contrast Ratio	1000
Viewing Angle	80 (U), 80 (D), 85 (L), 85 (R)
Response time	5 ms
Backlight	TFT-LCD
Touch Type	Projective capacitive multi-touch up to 10 points
Touch Light Transmission	89%
Touch Controller	ILLITEK ICI2510P

External I/O

USB	4 x USB3.1 Gen2, 3 x USB 2.0 (optional) *1 x USB2.0 for option shared the same port with COM
LAN Port	2 x RJ-45
COM Port	1 x RS232/422/485 (default), 2 x RS232 3 x RS232/GPIO/USB 2.0 (optional)
Display Port	2 x DP++; 1920 x 1080@60 Hz
Antenna	6 x Antenna mounting with dust cover 2x for WIFI/BT, 4x for 4G/5G

Mechanical & Environmental

Operating Temp.	0°C ~ 50°C (32°F ~ 122°F)
Storage Temp.	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	40°C @ 95% Relative humidity, non-condensing
Dimension (W x L x H)	392.7 x 325.3 x 71.65mm
Weight	5.6 Kg
Drop Test	ISTA 2A, IEC-60068-2-32 Test:Ed
IP Rating	Front panel IP65
Mounting Kit	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm Panel mount with mounting kits
Power Mode	AT/ATX (ATX is default)
Construction	Die casting with cover lens (Front)

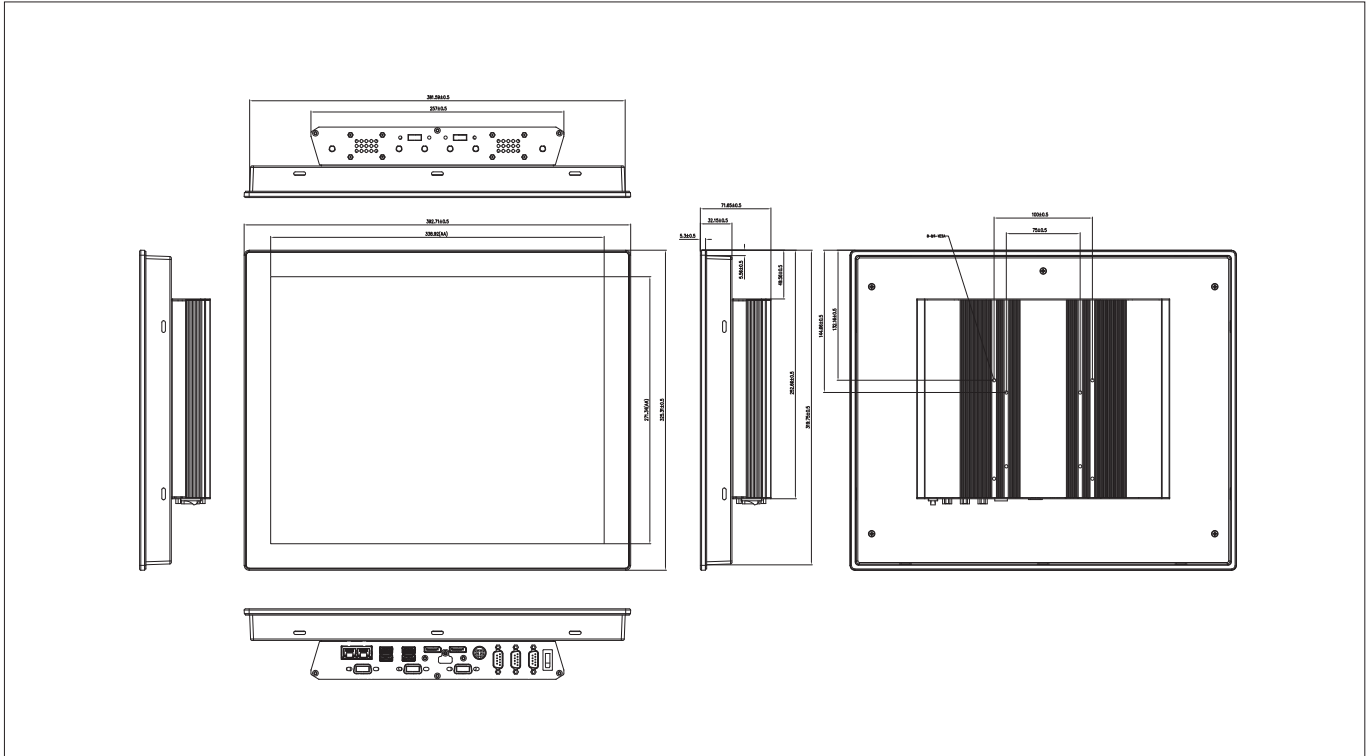
Component

Adapter	Input: 100~240Vac / 50~60Hz Output: 120W adapter (24V @ 5A)
---------	--

ARC-1738-C

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

Mechanical Drawing



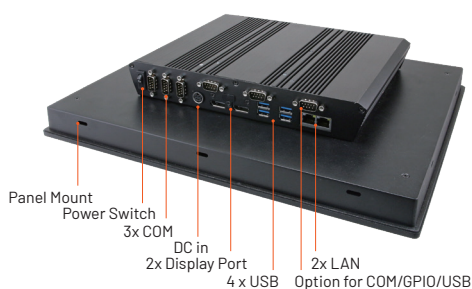
Ordering Information

P/N	Touch Type	Processor	Memory	Storage	Resolution	Luminance	COM	USB	LAN	Power Input	Operating Temp.	OS Support
ARC-1738-3G4-C1R	PCAP	Intel® Core™ i3-1115G4	2 x 260-pin DDR4 3200 MHz SO-DIMM	M.2 type B	1280 x 1024	250	3	4	2	+12V ~ +24V	0°C ~ 50°C	Win10 / Win11 / Linux
ARC-1738-5G7-C1R	PCAP	Intel® Core™ i5-1135G7	2 x 260-pin DDR4 3200 MHz SO-DIMM	M.2 type B	1280 x 1024	250	3	4	2	+12V ~ +24V	0°C ~ 50°C	Win10 / Win11 / Linux

Packing List

Item	P/N	Quantity
M4 x 6mm VESA Screw	ACC-SCREW-0002C	4
HDD Screw 4pcs-Sink (D5) M3 x 4 BK A1	ACC-SCREW-0003C	4
4pcs-Bind (D5.4) IMS M3 x 4 Ni A1	ACC-SCREW-0004C	4

I/O Overview



Optional Items

Item	P/N
Intel AX210 WIFI6 M.2 2230 A-Key kit	C971XAR38C1000R
Intel8265NGW M.2 2230 NGFF BT4.2 kit	C971XAR38C1001R
Wifi 802.11 ac/a/b/g/n,2T2R, BT5.1 kit	C971XAR38C1002R
4G LTE Module, SIM7600G-H-M2, SIMCOM	C971XAR38C1003R
SIMCOM, SIM8202G(USB3.0)	C971XAR38C1004R
COM Kit for ARC-1738-C1	C971XAR38C1005R
USB Kit for ARC-1738-C1	C971XAR38C1006R
GPIO Kit for ARC-1738-C1	C971XAR38C1007R
US Power Cord SM001/3P+SM006/3P 1.83M	C170P060040R
EU Power Cord SH005/3P+SH006/3P 1.83M	C170P060050R
JP Power Cord SH001/3P+SH006/3P 1.83M	C170P060060R
UK Power Cord YP61A/3P+YC12/3P 1.83M	C170P060070R
AU Power Cord SH051/3P+SH006/3P 1.83M	C170P060080R