



## Edge AI/GPU Computer: MEGA-3110 Series Info

# Edge AI/GPU Computer

# Arestech

**Convertible Expansion Module**

**PATENTED**

### MEGA-3110 series

### KEY FEATURES

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MEGA-3113



MEGA-3112



MEGA-3111

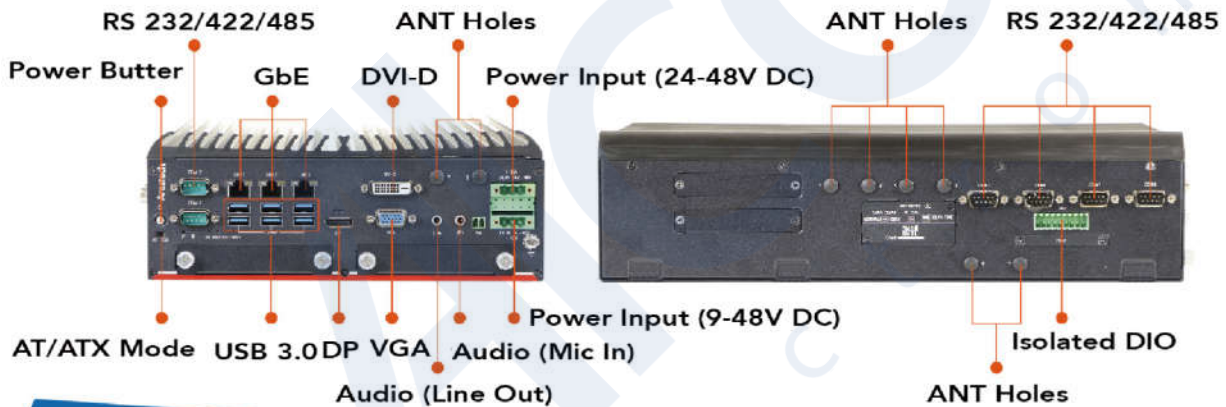


MEGA-3110

- ▶ High Edge Computing Performance
- ▶ Versatile I/O & Diverse Expandability
- ▶ Robust Design for GPU Computing in Harsh Environment
- ▶ 9th Gen Intel® Core™ i9/i7/i5



## I/O INTERFACES



## HIGHLIGHTS

2x Removeable HDD Bays for Easy Storage Expansion



External PC/ Car Mode Switch

Removeable CMOS Battery & External Clear CMOS Switch



2x Flexible I/O Window Slots Supported

## Models

Models	Chipset	USB	COM	GbE	VGA	DVI-D	DP	Expansion Slots
MEGA-3113								1x PCIe x16 2x PCIe x8



								(4-lane)
MEGA-3112	Intel Q370	x6 USB 3.2	x6 RS232/422/485	x3 1x Intel® i219-LM 2x Intel® i210-AT	x1	x1	x1	1x PCIe16 1x PCIe8 (4-lane).
MEGA-3111								1x PCIe16
MEGA-3110								X

## Ordering Guide

Models	Description
MEGA-3113	Intel® 8th/9th LGA 1151 Superior GPU computer with 3xLAN, 6xUSB 3.2, 6xUSB 3.2x COM, 2xUniversal I/O Brackets, 2xInternal 2,5" SATA HDD Bay, 2xRemoveable 2.5" SATA HDD Bay, 2xPCIe8 Slot (4-lane), 1xPCIe16 Slot
MEGA-3112	Intel® 8th/9th LGA 1151 Superior GPU computer with 3xLAN, 6xUSB 3.2, 6xUSB 3.2x COM, 2xUniversal I/O Brackets, 2xInternal 2,5" SATA HDD Bay, 2xRemoveable 2.5" SATA HDD Bay, 1xPCIe8 Slot (4-lane), 1xPCIe16 Slot
MEGA-3111	Intel® 8th/9th LGA 1151 Superior GPU computer with 3xLAN, 6xUSB 3.2, 6xUSB 3.2x COM, 2xUniversal I/O Brackets, 2xInternal 2,5" SATA HDD Bay, 2xRemoveable 2.5" SATA HDD Bay, 1xPCIe16 Slot
MEGA-3110	Intel® 8th/9th LGA 1151 Superior GPU computer with 3xLAN, 6xUSB 3.2, 6xUSB 3.2x COM, 2xUniversal I/O Brackets, 2xInternal 2,5" SATA HDD Bay, 2xRemoveable 2.5" SATA HDD Bay



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# MEGA-3110 Series

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High-Performance GPU Computer with Intel® 9th / 8th LGA1151 Processors



## Features

- Supports 8th / 9th Intel® Core™-i LGA 1151 Processors
- Triple Display Supported by VGA, DVI and DisplayPort
- Dual DDR4 2400/2666 MHz SO-DIMM up to 64 GB
- 3 x Intel GbE Ports, Support Wake-on-LAN and PXE
- 2 x Removable 2.5" SATA HDD Bays and 2 x Internal 2.5" SATA HDD Bays Supporting RAID 0, 1, 5, 10
- -40 ~ 70°C Operating Temperature
- 2 x CFast / mSATA Sockets

## Applications

- Edge Computing
- Traffic Vision
- Intelligent Control
- Deep Learning
- Artificial Intelligence
- Voice Recognition

## → Ordering Information

Part No.	Description
MEGA-3112	Intel® 9th/8th Gen. Core™ i LGA1151 CPU, Q370 Fanbased Box PC, 6x USB3.2 ,6x RS232/422/485, 3x GbE, 1xDP, 1x VGA, 1x DVI-D, 2x Flexible I/O Window Slots, 1 PCIeX8 Slot (4-lane), 1x PCIeX16 Slot, 2x Removable 2.5" SATA HDD Bays, 2 x Internal 2.5" SATA HDD Bays, Line Out, Mic In, DC 24~48V, Terminal Block Connector
MEGA-3113	Intel® 9th/8th Gen. Core™ i LGA1151 CPU, Q370 Fanbased Box PC, 6x USB3.2, 6x RS232/422/485, 3x GbE, 1xDP, 1x VGA, 1x DVI-D, 2x Flexible I/O Window Slots, 2x PCIeX8 Slots (4-lane), 1x PCIeX16 Slot, 2x Removable 2.5" SATA HDD Bays, 2x Internal 2.5" SATA HDD Bays, Line Out, Mic In, DC 24~48V, Terminal Block Connector

## → Packing List

### Description

1 x MEGA-3110 Series Machine

1 x Wall Mount Kit

## → Optional Items

Part No.	Description
AWD-4G003	4G(LTE) EG25-G + 2 Antennas, Full Size (for Global)
AWD-4G004	4G(LTE) EC25EFA + 2 Antennas, Full Size (for Europe/Taiwan/China/Hong Kong)
AWD-WF001	Wi-Fi 802.11 b/g/n (1T1R) + 1 Antenna, Half Size
AWD-WF003	Wi-Fi 802.11 a/b/g/n/ac/BT4.0 (2T2R) + 2 Antennas (Dual Band), Half Size
i7-9700TE	Intel® Core™ i7-9700TE (8-Cores, up to 3.8 GHz, 35W TDP)
i5-9500TE	Intel® Core™ i5-9500TE (6-Cores, up to 3.6 GHz, 35W TDP)
i7-8700T	Intel® Core™ i7-8700T (6-Cores, up to 4.0 GHz, 35W TDP)
i5-8500T	Intel® Core™ i5-8500T (6-Cores, up to 3.5 GHz, 35W TDP)
i3-8100T	Intel® Core™ i3-8100T (4-Cores, up to 3.1 GHz, 35W TDP)
55400-0000-M5	Power Supply 24V/21A 500W with 4x DC Cables, Phoenix Connector
55400-0001-M5	Power Supply 48V/21A 1000W with 4x DC Cables, Phoenix Connector
30130-0000-CA	Power Cord, 3-pin US Type SL-2 + Y, 180 cm
30131-0000-CA	Power Cord, 3-pin EU Type SL-6 + Y, 180 cm

## → Specifications

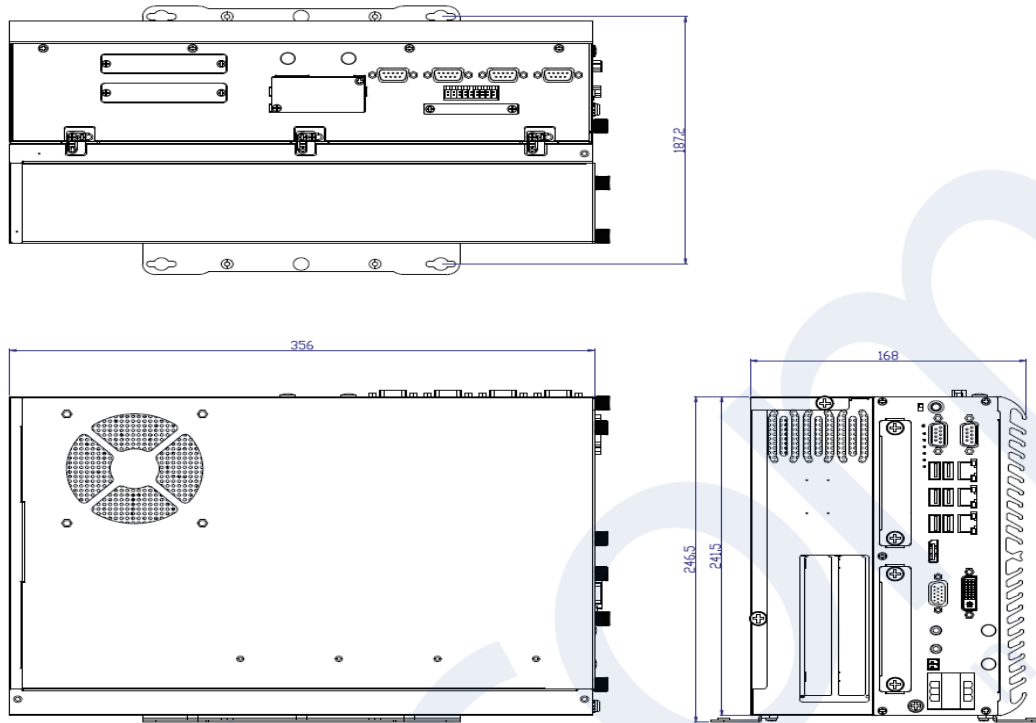
Model		MEGA-3112	MEGA-3113	
Processor System	CPU	Socket 9th/ 8th Intel® Core™ i3 / i5 / i7 Desktop 35W/65W LGA 1151 Processors		
	Frequency	N/A		
	System Chipset	Intel® Q370 Express Chipset		
	Cache	N/A		
Memory	BIOS	AMI BIOS, 256Mbit SPI Flash ROM On Board		
	Technology	Dual Channel DDR4 2400/2666 MHz SDRAM		
	Max. Capacity	64 GB (Un-buffered and Non-ECC)		
	Socket	2x DDR4 260-pin SO-DIMM		
Display	Graphics Engine	Integrated Intel® UHD Graphics 630 (Core™ i7/ i5/ i3) Integrated Intel® UHD Graphics 610 (Pentium/ Celeron)		
	HDMI	N/A		
	DP	1x DP, up to 4096 x 2160		
	VGA	1x VGA, up to 1920 x 1200		
	DVI	1x DVI-D, up to 1920 x 1200		
I/O Interface	USB	6x USB 3.2 and 2x Internal USB 2.0 Ports		
	Serial Port	6x COM (RS-232/422/485), with Auto Flow Control, DB9		
	Ethernet	3x GbE (LAN1: Intel® i219-LM, Supporting Wake-on-LAN and PXE) (LAN2/3: Intel® i210-AT GbE, Supporting Wake-on-LAN and PXE)		
	Audio	Lin out, Mic in (Realtek ALC888S)		
	GPIO/DIO	8x Isolated DI and 8x Isolated DO (2 x 9-Pin Terminal Block)		
	Antenna Hole	8		
	Others	1x Removable CMOS Battery and 1x External Clear CMOS Switch		
	Flexible I/O Window Slot	2		
	Storage	2.5" HDD / SSD	2x Removable 2.5" SATA HDD Bays and 2x Internal 2.5" SATA HDD Bays	
		M.2	N/A	
CFast/mSATA		2x CFast Sockets (shared by 2x mSATA)		
RAID		RAID 0, 1, 5, 10		
Expansion	Mini PCIe	2x Full-size Mini-PCIe Socket (mux with mSATA) and 2x Full-size Mini-PCIe		
	M.2	N/A		
	PCI / PCIe	1x PCIe X16 Slot and 1x PCIe X8 Slot (4-Lane)	1x PCIe X16 Slot and 2x PCIe X8 Slot (4-Lane)	
	SIM Holder	2x External SIM Sockets and 2x Internal SIM Sockets		
Power	Power On Model	AT / ATX (Support Hardware AT, ATX Power Mode)		
	Power Supply Voltage	9~48V DC (without GPU Card) 24~48V DC (with GPU Card)		
	Power Connector Type	1x 3-pin Terminal Block Connector with Power Input		
	Power Ignition	Power Ignition Sensing		
	Power Consumption	Optional AC/DC 24V, 220W without GPU Card Optional AC/DC 24V, 500W/1000W with GPU Card		
	Protection	Over Voltage Protection (OVP) up to 52V Reverse Voltage Protection (RVP) up to -48V Over Current Protection (OCP) 20A		
Mounting	Car Mode	1x PC/Car Mode Switch		
	Type	Wall Mount / Stand Mount		
Environment	Operating Temperature	-40~70° C (-40~158° F)		
	Storage Temperature	-40~85° C (-40~185° F)		
	Humidity	5~95% @ 40° C, Non-Condensing		
	Vibration	3 Grms, 5-500 Hz, 3 Axis		
	Shock	30 Grms, Half-sine 11 ms		
General	Certification	CE / FCC Class A		
	Thermal Dissipation	Fan Based System		
	Material	Extruded Aluminum with Heavy Duty Metal		
	Dimensions (W x H x D)	168 x 241.5 x 356 mm (6.61" x 9.51" x 14.02")	168 x 241.5 x 356 mm (6.61" x 9.51" x 14.02")	
	Net Weight	7.35 kg (16.20 lb)	7.55 kg (16.64 lb)	
	Operating System	Windows 10 (IoT / Professional), Linux		

# MEGA-3110 Series

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→ Dimensions

## MEGA-3112



## MEGA-3113

