MEVA-3110 Series

Machine Vision Computer with Intel® 9th / 8th Gen Core™ i7/i5/i3 Processor

Applications

- Machine Vision
- Quality Inspection / defect detection
- Factory Automation
- Surveillance / Video Analytics
- Motion Control

Features

- Supports Intel® 9th / 8th Gen Core™ 35W LGA 1151 CPU
- IEEE 802.3at PoE+, up to 25.5W DC Power to Device
- GbE Supports Wake-on-LAN and PXE
- Cable-free and Jumper-less Design to Enhance Reliability
- Supports VGA, DVI, and DP
- Modular Expandable PCIe Box
- 9~48V DC Input with Power Ignition Function
- -40°C ~ 70°C Wide Operating Temperature

Ordering Information

Part No.	Description
MEVA-3110	Intel® 9th/8th Core™ i LGA1151 CPU, Q370 Fanless Box PC, 6 x USB3.2, 2x USB2.0, 6 x RS232/422/485, 3 x GbE, 1 x DP, 1 x VGA, 1 x DVI-D, 4 x Flexible I/O Window Slots, 4 x Removable 2.5" SATA HDD, DC 9~48V, Terminal Block Connector
MEVA-3111	Intel® 9th/8th Core™ i LGA1151 CPU, Q370 Fanless Box PC, 6 x USB3.2, 2x USB2.0, 6 x RS232/422/485, 3 x GbE, 1 x DP, 1 x VGA, 1 x DVI-D, 4 x Flexible I/O Window Slots, 4 x Removable 2.5" SATA HDD, DC 9~48V, Terminal Block Connector Expansion Box of 1 x PCIe x16 Slot or 1 x PCI Slot
MEVA-3112	Intel® 9th/8th Core™ i LGA1151 CPU, Q370 Fanless Box PC, 6 x USB3.2, 2x USB2.0, 6 x RS232/422/485, 3 x GbE, 1 x DP, 1 x VGA, 1 x DVI-D, 4 x Flexible I/O Window Slots, 4 x Removable 2.5" SATA HDD, DC 9~48V, Terminal Block Connector Expansion Box of 1 x PCIe x16 Slot and PCIe x8 Slot (4-lane) or 2 x PCI Slots

Packing List

Description
1 x MEVA-3110 series
1 x Wall Mount Kit

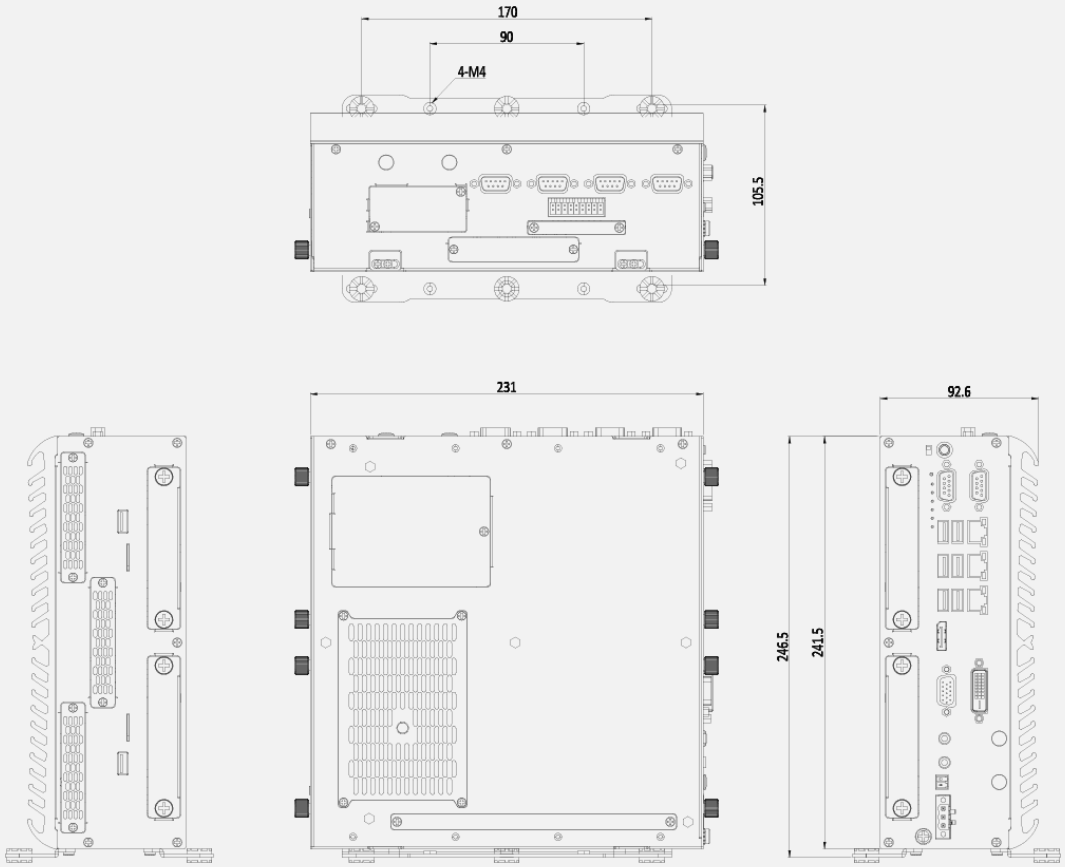
Optional Items

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-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-core, up to 3.8 GHz, 35W TDP)
i5-9500TE	Intel® Core™ i5-9500TE (6-core, up to 3.6 GHz, 35W TDP)
i7-8700T	Intel® Core™ i7-8700T (6-core, up to 4.0 GHz, 35W TDP)
i5-8500T	Intel® Core™ i5-8500T (6-core, up to 3.5 GHz, 35W TDP)
i3-8100T	Intel® Core™ i3-8100T (4-core, up to 3.1 GHz, 35W TDP)
55000-0023-M5	Adapter AC/DC 24V 5A 120W with 3-pin Terminal Block Plug 5.0mm Pitch
55000-0024-M5	Adapter AC/DC 24V 9.2A 220W with 3-pin Terminal Block Plug 5.0mm Pitch
30100-0003-CA	Power Cord, 3-pin US Type, 180 cm
30101-0005-CA	Power Cord, 3-pin EU Type, 180 cm
5E400-0004-AV	External Fan Module Kit for MEVA (MERA) Series (92 x 92 x 25 mm)
EA-VA3110x-4LANxx-0010	Internal 4LAN Module Kits for MEVA-3110/MERA-3110
EA-VA3110x-4LAPOE-0010	Internal 4LANPOE Module Kits for MEVA-3110/MERA-3110
EA-VA3110x-4LM12x-0010	Internal 4LAN M12 Module Kits for MEVA-3110/MERA-3110
EA-VA3110x-4LMPOE-0010	Internal 4LANPOE M12 Module Kits for MEVA-3110/MERA-3110
EB-VA3110x-1Pxxxx-0011	MEVA-3110 Series Expansion Box with 1 x PCI Slot
EB-VA3110x-2Pxxxx-0011	MEVA-3110 Series Expansion Box with 2 x PCI Slots
EB-VA3110x-3Pxxxx-0011	MEVA-3110 Series Expansion Box with 3 x PCI Slots
EB-VA3110x-1E16xx-0011	MEVA-3110 Series Expansion Box with 1 x PCIe x16 Slot
EB-VA3110x-1E41E6-0011	MEVA-3110 Series Expansion Box with 1 x PCIe x16 Slot and 1 x PCIe x8 Slot (4-lane)
EB-VA3110x-2E41E6-0011	MEVA-3110 Series Expansion Box with 1 x PCIe x16 Slot and 2 x PCIe x8 Slots (4-lane)

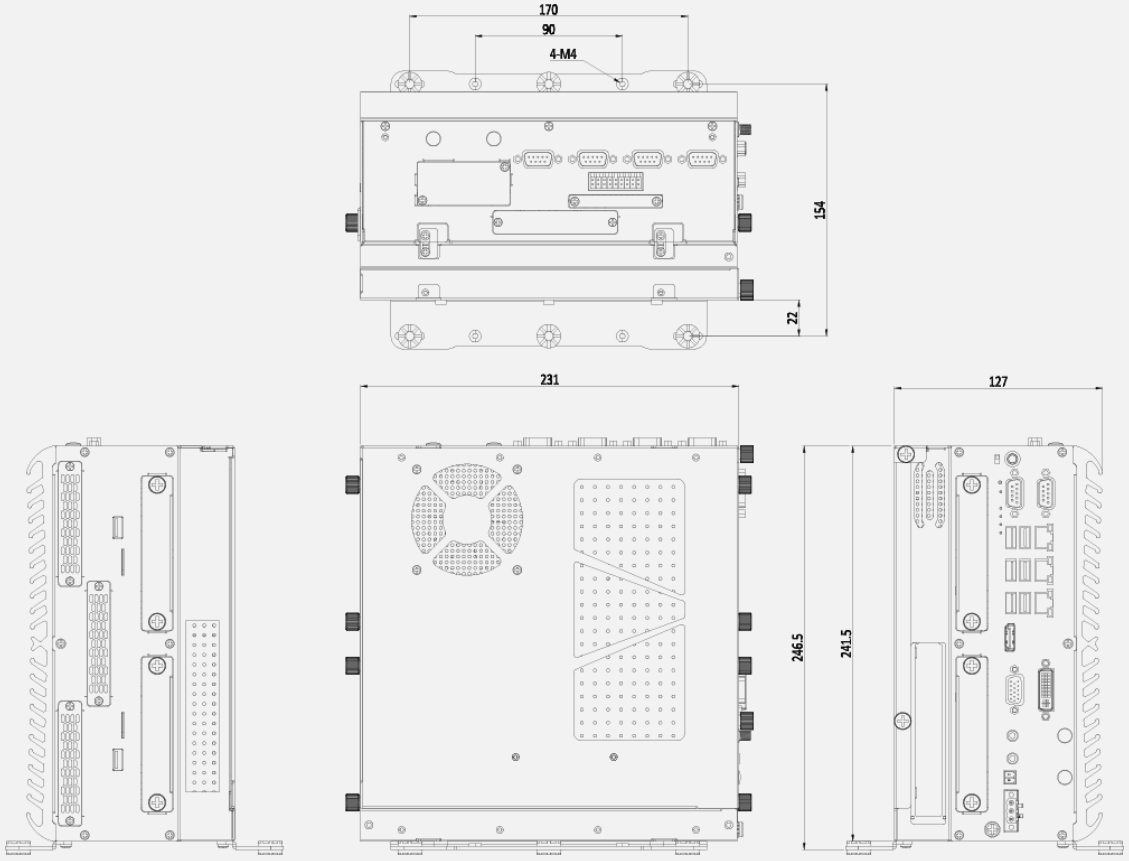
Specifications

Model		MEVA-3110	MEVA-3111	MEVA-3112
Processor System	CPU	Intel® 9th / 8th Gen Core™/Pentium®/Celeron® 35W LGA 1151 Processors		
	System Chipset	Intel® Q370		
	BIOS	AMI 256 Mbit SPI Flash		
	TPM	FTPM		
Memory	Technology	Dual Channel DDR4 2400/2666 (Unbuffered and Non-ECC)		
	Max. Capacity	64GB		
	Socket Type	2 x 260-pin SO-DIMM		
Display	Graphics Engine	Core™ i7/i5/i3: Intel® UHD Graphics 630 Pentium®/ Celeron®: Intel® UHD Graphics 610		
	Multiple Display	3		
	VGA	1 x VGA, Max Resolution 1920 x 1200		
	DP	1 x DP, Max solution 4096 x 2160		
	DVI-D	1 x DVI-D, Max Resolution 1920 x 1200		
I/O Interface	USB	6 x USB3.2 and 2 x USB2.0		
	Serial Port	6 x RS232/422/485		
	Ethernet	1 x GbE Intel® i219-LM, RJ45 2 x GbE Intel® i210-AT, RJ45		
	PoE+	4 x PoE+ Intel® i350-AM4 (Optional, via Arestech Flexible I/O Window)		
	Audio	1 x Line-out, 1 x Mic-in		
	GPIO/DIO	8 x Isolated DI and 8x Isolated DO, 2 x 9-pin Terminal Block		
	Antenna Hole	4		
	CMOS Battery	1 x CMOS Battery and 1 x Clear CMOS Switch		
	Flexible I/O Window Slot	4		
Storage	2.5" HDD / SSD	4 x Removable 2.5" HDD		
	mSATA	2 x mSATA (Shared by 2 x CFast)		
	CFast	2x CFast Sockets (Shared by 2 x mSATA)		
	RAID	RAID 0, 1, 5, 10		
Expansion	Mini-PCIe	2 x Full-size Mini-PCIe Sockets (PCIe & USB2.0 and SIM) 2 x Full-size Mini-PCIe Sockets (PCIe & SATA and SIM) (mux with mSATA)		
	PCI / PCIe	N/A	1 x PCIe x16 Slot	1 x PCIe x16 Slot 1 x PCIe x8 Slot (4-lane)
		N/A	1 x PCI Slot	2 x PCI Slots
	SIM Holder	4 x SIM Holders		
Power	Power Mode	AT / ATX		
	Power Supply Voltage	9~48V DC with Ignition Control 24~48V DC with GPU Card		
	Power Connector Type	1 x 3-pin Terminal Block Connector		
	Protection	Over Voltage Protection (OVP) up to 52V Over Current Protection (OCP) 20A Reverse Voltage Protection (RVP) up to -48V		
	Car Mode	1 x PC/Car Mode Switch 1 x Delay Time Switch		
Mounting	Type	Wall Mount (Additional Mounting Kit) / Stand Mount		
Environment	Operating Temperature	-40 ~ 70°C		
	Storage Temperature	-40 ~ 85°C		
	Humidity	5% ~ 95% (Non-condensing)		
	Vibration	5Grms, 5-500 Hz, 3Axis		
	Shock	50Grms, Half-sine 11ms		
General	Certification	CE/FCC Class A		
	Thermal Dissipation	Fanless for 35W CPU		
	Material	Extruded Aluminum with Heavy Duty Metal		
	Dimensions (W x D x H)	92.6 x 231 x 241.5mm	127 x 231 x 241.5mm	148 x 231 x 241.5mm
	Net Weight	3.95kg	5.2kg	5.35kg
	Operating System	Windows 10 IoT, Windows 11 (IoT/Professional), Linux		

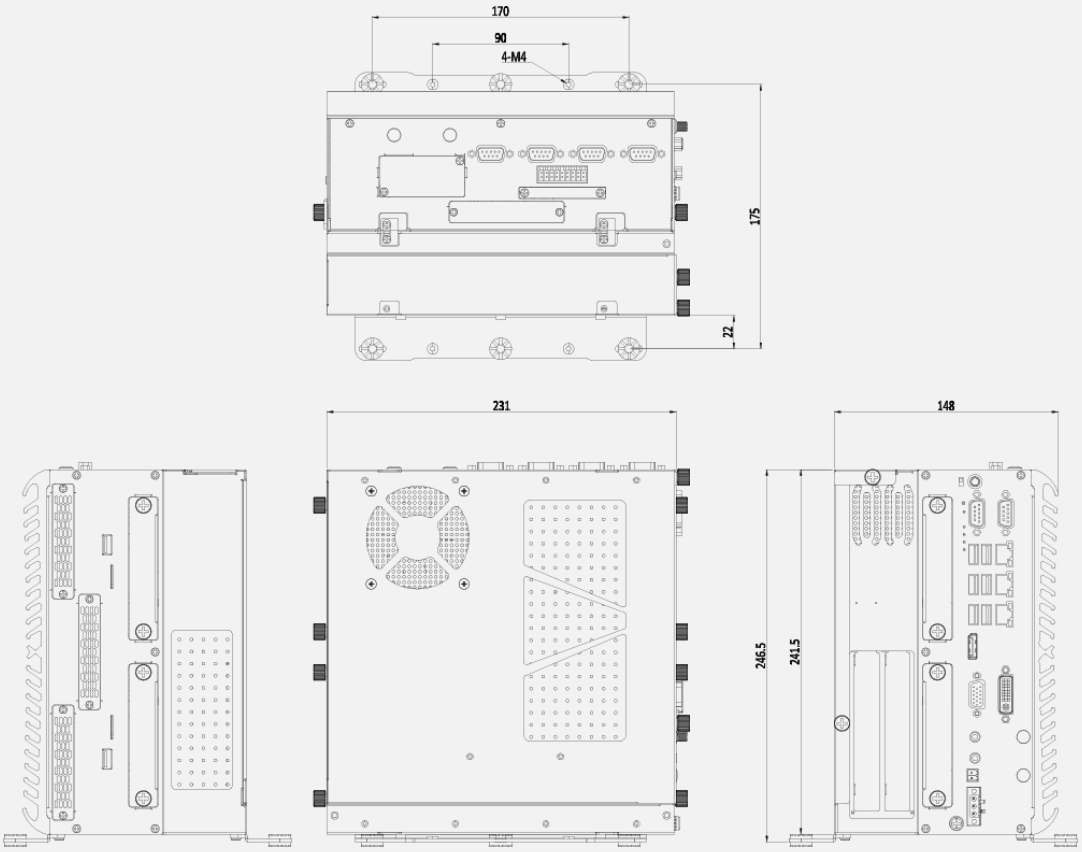
Dimensions
MEVA-3110



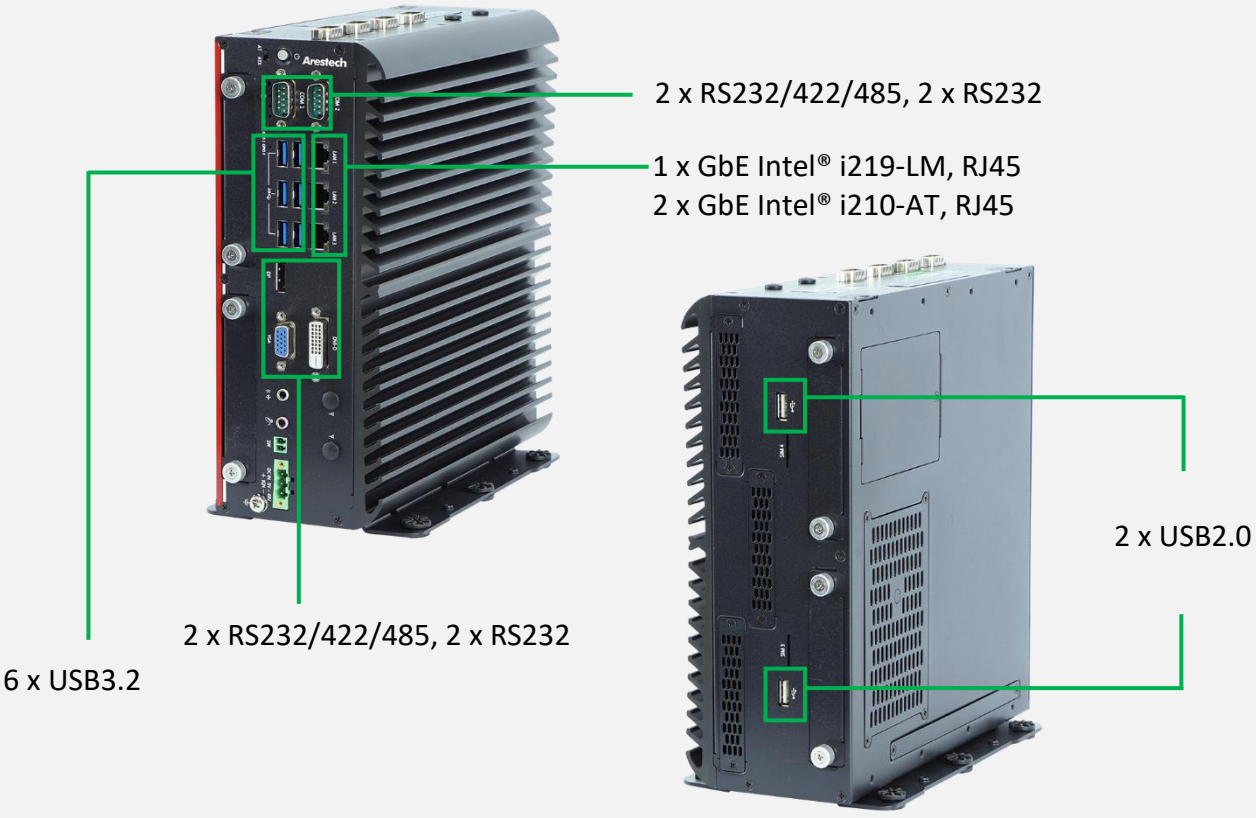
Dimensions
MEVA-3111



Dimensions
MEVA-3112



Viewing
MEVA-3110



Viewing MEVA-3111

Expansion Box: 1 x PCI Slot
1 x PCIe x16 Slot

Viewing MEVA-3112

Expansion Box: 2 x PCI Slots
1 x PCIe x16 Slot
1 x PCIe x8 Slot (4-lane)

Authorized Distributor

www.wdlsystems.com

sales@wdlsystems.com

800-548-2319

919-545-2500

220 Chatham Business Drive
Pittsboro, NC 27312