

MERA-2000 Series

Arestech

Rugged Box PC with Intel® Atom or Celeron® Processor



Features

- Intel® Celeron® Processor J1900, up to 2.42GHz
- Dual Displays Supported by DVI-I and DisplayPort
- 1x DDR3L 1066/ 1333MHz SO-DIMM. Max up to 8GB
- 2x Intel i210-AT GbE Ports, Support Wake-on-LAN and PXE
- 2x Full-size Mini-PCIe, 2x SIM Sockets
- 9~48V DC Input with Built-in Ignition Power Control
- -40°C ~ 70°C Wide Temperature Operation

Applications

- Digital Signage Control Systems
- Factory Automation Applications
- Image Processing (e.g. Medical 2D and 3D imaging)
- Gaming and Entertainment Industries
- Network Communications

→ Packing List

Description
1 x MERA-2000 Series Machine
1 x DVI to VGA Adapter
1 x Wall Mount Kit

→ Optional Items

Part No.	Description
AWD-4G003	4G(LTE) EG25-G+ 2 antenna, Full size (for global)
AWD-WF001	Wi-Fi 802.11 bgn (1T1R) +1 Antenna (Single band), Half-size mini PCIe
AWD-WF003	Wi-Fi 802.11 a/b/g/n/ac/BT4.0 (2T2R)+ 2 antenna(dual band), mini PCIe Half size
2107-2330-X10	DIN-RAIL Mount Kit
55000-0025-M5	Adapter 12V/ 5A 60W
30100-0003-CA	Power Cord, 3-pin US Type, 180cm
30101-0005-CA	Power Cord, European Type, 180 cm

→ Ordering Information

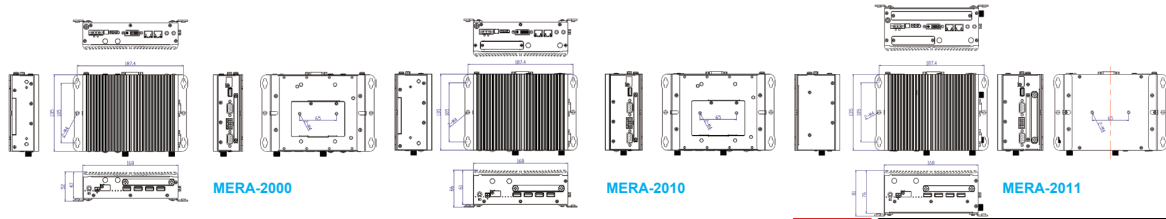
Part No.	Description
MERA-2000	Intel® J1900 Compact fanless box pc with 2x LAN, 1x USB 3.0, 4x USB2.0, 2x RS232/422/485, 1x DVI-I, 1x DP, Lin out, Mic in, 1x Removable 2.5" SATA HDD Bay
MERA-2010	Intel® J1900 Rugged Box PC with 2x LAN, 1x USB 3.0, 4x USB2.0, 2x RS232/422/485, 1x DVI-I, 1x DP, Lin out, Mic in, 1x Universal I/O Bracket, 1x Removable 2.5" SATA HDD Bay
MERA-2011	Intel® J1900 Rugged Box PC with 2x LAN, 1x USB 3.0, 4x USB2.0, 2x RS232/422/485, 1x DVI-I, 1x DP, Lin out, Mic in, 1x Universal I/O Bracket, 2x Removable 2.5" SATA HDD Bays

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MERA-2000 Series



→ Dimensions



→ Specifications

Model		MERA-2000	MERA-2010	MERA-2011
Processor System	CPU	Intel® Celeron® Processor J1900		
	System Chipset	N/A		
	BIOS	AMI BIOS, 64Mbit SPI Flash ROM Built on Board		
Memory	Technology	Single Channel DDR3L 1066/1333 MHz SO-DIMM		
	Max. Capacity	8 GB (un-buffered and non-ECC)		
	Socket	1 x DDR3L 204-pin SO-DIMM		
Display	Graphics Engine	Integrated Intel® HD Graphics		
	VGA	N/A		
	DVI-D	1 x DVI-I (DVI-D+VGA), Resolution 1920*1200		
	HDMI	N/A		
	Display Port	1 x DP (3840*2160)		
I/O Interface	Multi Display	Yes		
	USB	5 (1 x USB3.0, 4 x USB2.0)		
	Serial	2 x COM (RS-232/422/485), with Auto Flow Control, DB9		
	GPIO	4 x Isolated DI and 4 x Isolated DO Port, 10-Pin Terminal Block		
	Ethernet	2 x GbE (2 x Intel® i210-AT GbE LAN Ports, Supporting Wake-on-LAN and PXE)		
	Audio	Lin out, Mic in		
	CMOS Battery	1 x External Clear CMOS Switch		
Expansion	Universal I/O Bracket	N/A	1 x Universal I/O Bracket	1 x Universal I/O Bracket
	miniPCIe/ M.2 Slot	1 x Full-size Mini-PCIe Socket (mux with mSATA), 1 x Full-size Mini-PCIe		
	SIM Socket	2 x External SIM Socket		
	Antenna Hole	6 x Antenna Holes	4 x Antenna Holes	4 x Antenna Holes
Storage	PCI/ PCIe Slot	N/A		
	HDD/SSD	1 x Removable 2.5" SATA HDD Bay	1 x Removable 2.5" SATA HDD Bay	2 x Removable 2.5" SATA HDD bay
	RAID	N/A		
	CFast Socket	1 x CFast Socket (Shared by mSATA)		
Power	mSATA/M.2	1 x mSATA Socket (Shared by 1 x Mini-PCIe and CFast)		
	Power On Model	AT/ATX		
	Power Supply Voltage	Power Supply: 9~48V DC (Power Ignition Sensing)		
	Power Connector Type	1 x 3-pin Terminal Block Connector		
	Power Consumption (Max.)	Max: 1.66A @ 12 V (20W)		
	Battery	CR2032; 3.3V		
	Protection	Over Voltage Protection (OVP) Up to 52V Reverse Voltage Protection (RVP) up to -48V Over Current Protection (OCP) 20A		
Mounting	Power Connector Type	1 x AT/ATX Mode Switch		
	Type	Wall Mounting/DIN-Rail Mounting (Optional)		
Environment	Car Mode	1 x PC/Car Mode Switch		
	Operating Temperature	-40°C to 70°C (with Industrial Grade Peripherals)		
	Storage Temperature	-40°C to 80°C		
	Humidity	10%~95% (Non-condensing)		
	Vibration	5 Grms, 5-500 Hz, 3 Axis		
General	Shock	50 Grms, Half-sine 11 ms		
	Certification	CE/FCC		
	Thermal Dissipation	Fanless System		
	Material	Extruded Aluminum with Heavy Duty Metal		
	Dimensions (W x H x D)	168 x 135 x 47 mm (6.61" x 5.31" x 1.85")	168 x 135 x 61 mm (6.61" x 5.31" x 2.40")	168 x 135 x 76mm (6.61" x 5.31" x 2.99")
Net Weight	1.1 kg (2.43lb)	1.15 kg (2.54lb)	1.45 kg (3.20lb)	
Operating System	Windows 10 (IoT / Professional), Linux			

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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.

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