

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 Power Cord |
| 1 x Power Adapter (60W standard) |
| 1 x DVI to VGA Adapter |
| 1 x Wall Mount Kit |

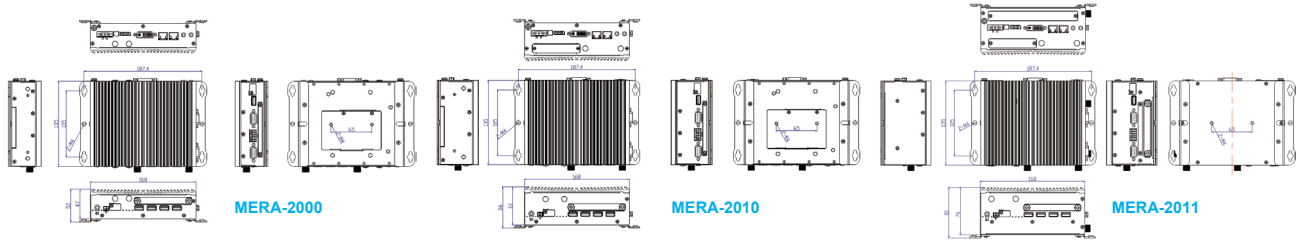
→ Optional Items

| 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 |

→ 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 |

→ 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 | | |
| | Car Mode | 1 x PC/Car Mode Switch | | |
| Mounting | Power Connector Type | 1 x AT/ATX Mode Switch | | |
| | Type | Wall Mounting/DIN-Rail Mounting (Optional) | | |
| Environment | 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 | | |
| | Shock | 50 Grms, Half-sine 11 ms | | |
| General | 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 | | |