

# MERA-2100

Modular Embedded Computers with Intel® Pentium® N4200 Processor

## Applications

- Factory Automation
- Access Control
- Self-Service Kiosk
- Motion Control

## Features

- Cable-free and Jumper-less Design to Enhance Reliability
- Supports 1 x VGA, 1 x DP, and 1 x HDMI (Optional)
- Built-in Power Protection (OVP / OCP / RVP)
- 1 x External Clear CMOS Switch 9~48V DC Input with Power Ignition Function
- 9~48V DC Input with Power Ignition Function
- -40°C to 70°C Operating Temperature



## Ordering Information

Part No.	Description
MERA-2100	Intel® N4200 Rugged Box PC, 2 x USB3.2 Gen1, 2 x USB 2.0, 2 x R232/422/485, 2 x GbE, 1 x VGA, 1 x DP, Line out, Mic in, 1 x Removable 2.5" SATA SSD DC 9~48V, Terminal Block Connector
MERA-2110S	Intel® N4200 Rugged Box PC, 2 x USB3.2 Gen1, 2 x USB 2.0, 6 x R232/422/485, 2 x GbE, 1 x VGA, 1 x DP, Line out, Mic in, 1 x Removable 2.5" SATA SSD 1 x Flexible I/O window, DC 9~48V, Terminal Block Connector

## Packing List

Description
1 x MERA-2100 Series Machine
1 x Wall Mount Kit

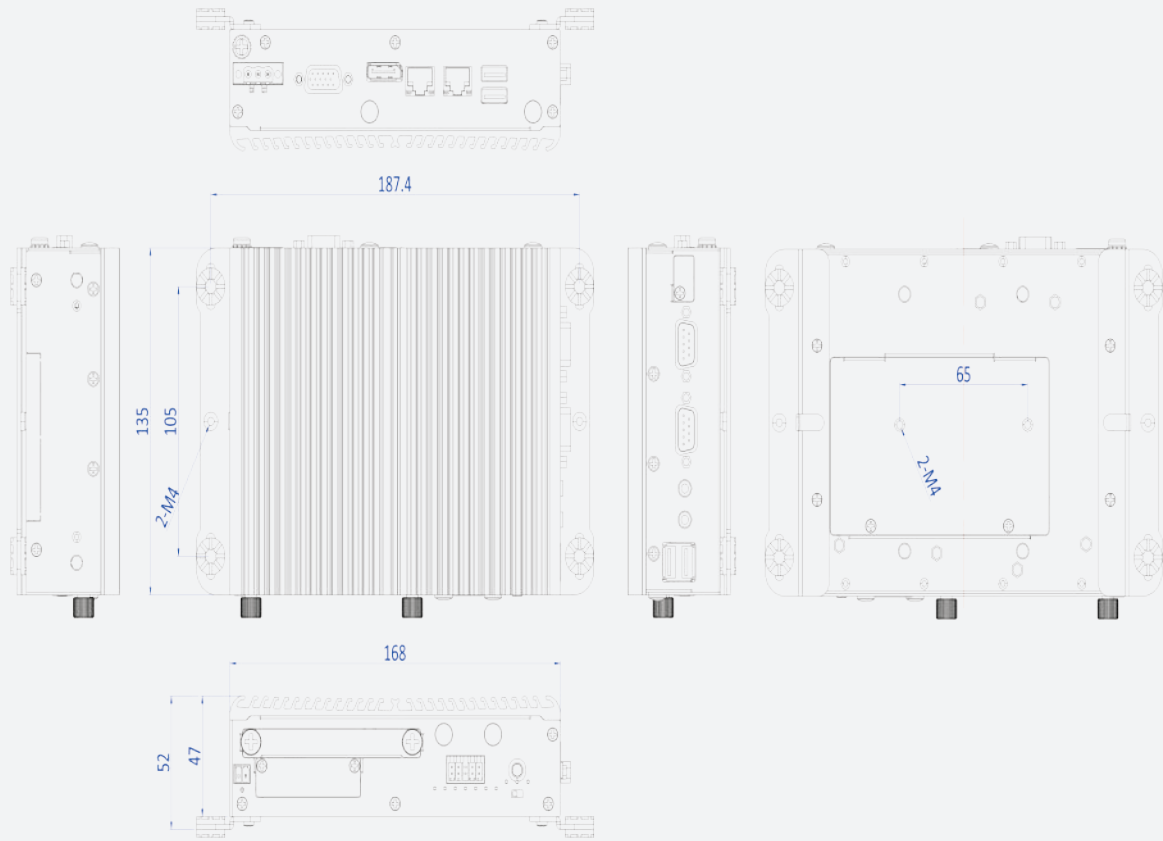
## Optional Items

Part No.	Description
AWD-4G003	4G (LTE) EG25-G + 2 Antennas, Full Size (for Global)
AWD-WF003	Wi-Fi 802.11 a/b/g/n/ac/BT4.0 (2T2R) + 2 Antennas (Dual Band), Half Size
2107-2330-X10	DIN-RAIL Mount Kit
55000-0025-M5	Adapter AC/DC 12V 5A 60W 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

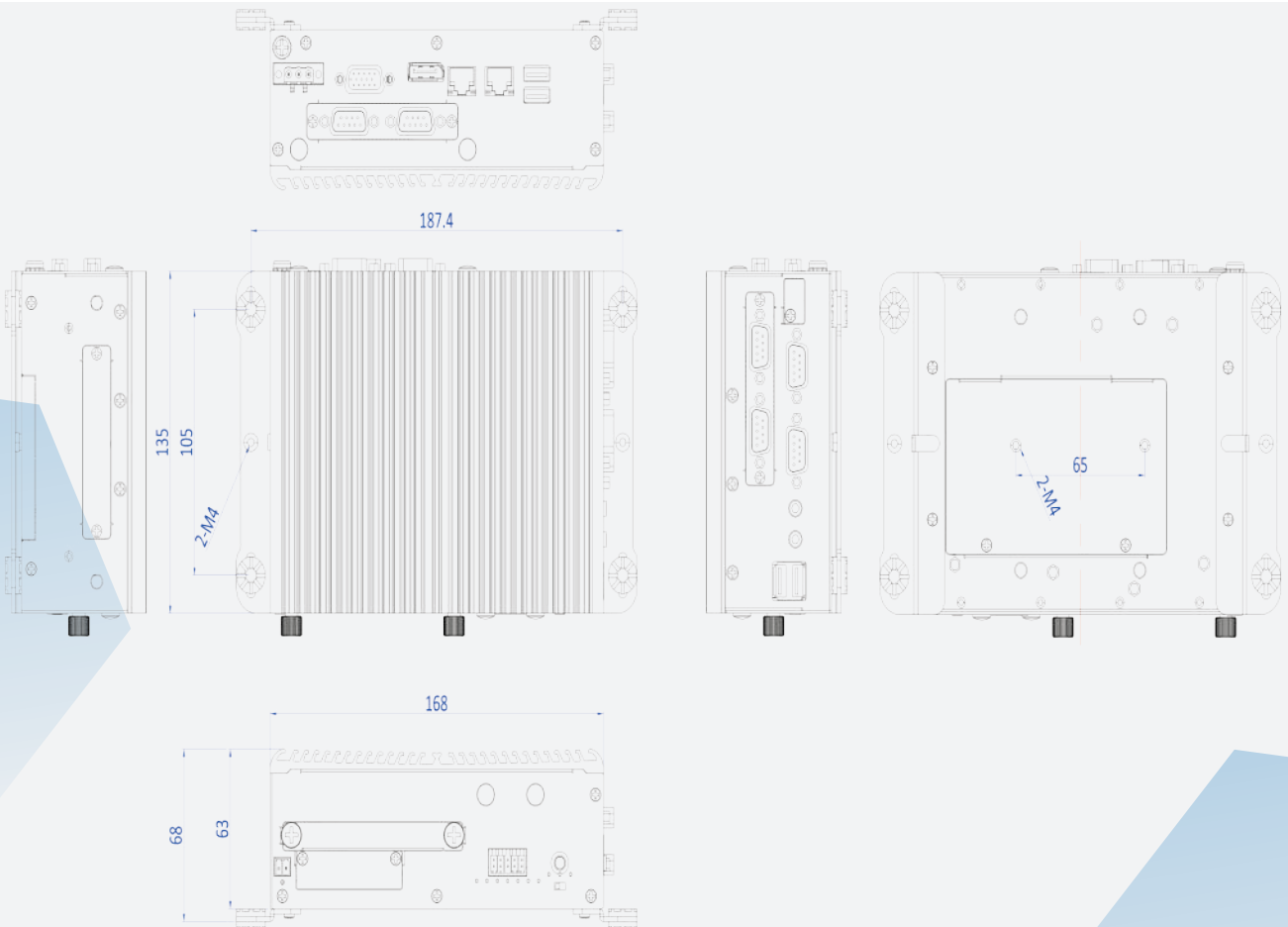
## Specifications

Model		MERA-2100	MERA-2110S
Processor System	CPU	Intel® Pentium® N4200, 2.5 GHz	
	Frequency	up to 2.50 GHz	
	System Chipset	N/A	
	BIOS	AMI 128Mbit SPI Flash	
	TPM	TPM 2.0	
Memory	Technology	Single Channel DDR3L 1866 (Non-ECC and Unbuffered)	
	Max. Capacity	Support up to 8GB (un-buffered and non-ECC)	
	Type	1 x 204-pin SO-DIMM	
Display	Graphics Engine	Intel® HD Graphics 505	
	Multiple Display	2	
	VGA	1 x VGA, Max Resolution 1920 x 1200	
	DP	1 x DisplayPort 1.2a, Max Resolution 4096 x 2160	
	HDMI	1 x HDMI 1.4b, Max Resolution 4096 x 2160 (Optional)	
I/O Interface	USB	2 x USB3.2 (Gen1), 2 x USB2.0	
	Serial Port	2 x RS232/422/485	6 x RS232/422/485
	Ethernet	2 x GbE Intel® I210-AT, RJ45	
	Audio	1 x Line-out, 1 x Mic-in	
	GPIO / DIO	Isolated DI x 4 and Isolated DO x 4, 2 x 5-pin Terminal Block	
	CMOS Battery	1 x Removable CMOS Battery and 1 x Removable Clear CMOS Switch	
	Antenna Hole	4	
	Flexible I/O Window	0	1
Storage	2.5" SSD	1 x Removable 2.5" SATA SSD	
	mSATA	1 x mSATA (Shared by 1 x Mini-PCIe)	
Expansion	Mini PCIe	1 x Full Size (PCIe, USB2.0 and SIM) 1 x Full Size (SATA, USB2.0 and SIM) (Shared by 1 x mSATA)	
	SIM Holder	2 x SIM Holders	
Power	Power Mode	AT/ATX	
	Power Supply Voltage	9~48V DC Input with Ignition Control	
	Power Connector Type	1 x DC Power Connector, 1 x 3-pin Terminal Block	
	Power Adapter	AC/DC, 12V/5A 60W	
	Car Mode	1 x PC/Car Mode Switch 1 x Delay Time Switch	
Mounting	Type	Wall Mount (Additional Mounting Kit)	
Environment	Operating Temperature	-40C ~ 70°C	
	Storage Temperature	-40C ~ 80°C	
	Humidity	10% ~ 90% (Non-condensing)	
	Vibration	IEC 60068-2-64: 5Grms, random, 5~500 Hz, 1hr/axis	
	Shock	IEC 60068-2-27: 50G, half-sine, 11ms duration	
	Certification	CE/FCC Class A	
General	Thermal Dissipation	Fanless System	
	Material	Extruded Aluminum with Heavy Duty Metal	
	Mounting	Wall Mounting (Additional Mounting Kit)	
	Dimensions (W x D x H)	168 x 135 x 47mm	168 x 135 x 63mm
	Net Weight	1.1kg	1.3kg
	Operating System	Windows 10 IoT, Windows 11 (IoT/Professional), Linux	

## Dimensions MERA-2100



## Dimensions MERA-2110S



## Viewing MERA-2100



2 x SIM Holders

1 x Removable CMOS Battery and  
1 x Internal Clear CMOS Switch



2 x USB3.2 (Gen1)

2 x GbE Intel® I210AT, RJ45

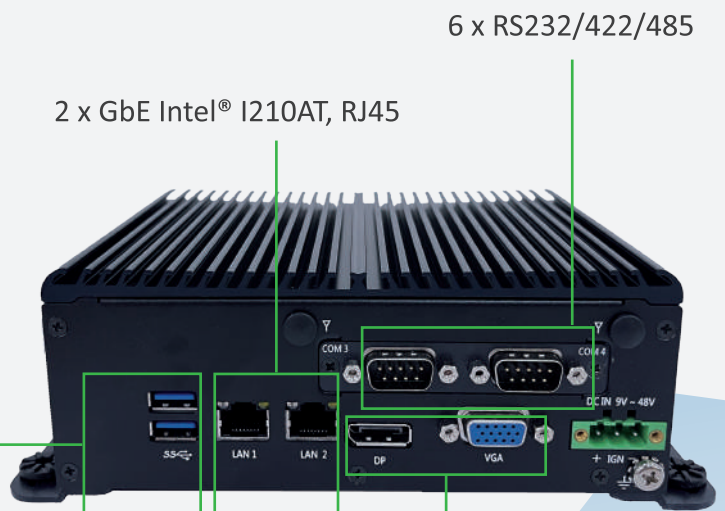
1 x VGA and 1 x DP

## Viewing MERA-2110S



2 x SIM Holders

1 x Removable CMOS Battery and  
1 x Internal Clear CMOS Switch



2 x USB3.2 (Gen1)

2 x GbE Intel® I210AT, RJ45

6 x RS232/422/485

1 x VGA and 1 x DP