

# PM-2100

## Modular Fanless Box PC with Intel® Pentium® N4200 Processor



### Applications

- Factory Automation
- Self-Service Kiosk
- Human Machine Interface (HMI)
- Warehouse Management
- iHealthcare

### Features

- Intel® Pentium® N4200 Quad Core Processor
- Single Channel DDR3L-1866 SO-DIMM, Single, Max to 8GB
- Supports 1 x VGA, 1 x DP, and 1 x HDMI (Optional)
- Supports 2 x GbE LAN, 2 x COM and 4 x USB
- Supports one 2.5" SATA drive bay and mSATA
- 2 x Mini PCIe Expansion Slots
- 9~48V DC Input with Power Ignition Function
- -40°C~70°C Operating Temperature

### Ordering Information

Part No.	Description
PM-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 HDD Bay, DC 9~48V, Terminal Block Connector
PM-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 HDD Bay, 1 x Flexible I/O window, DC 9~48V, Terminal Block Connector

### Packing List

#### Description

1 x PM-2100 Series Machine

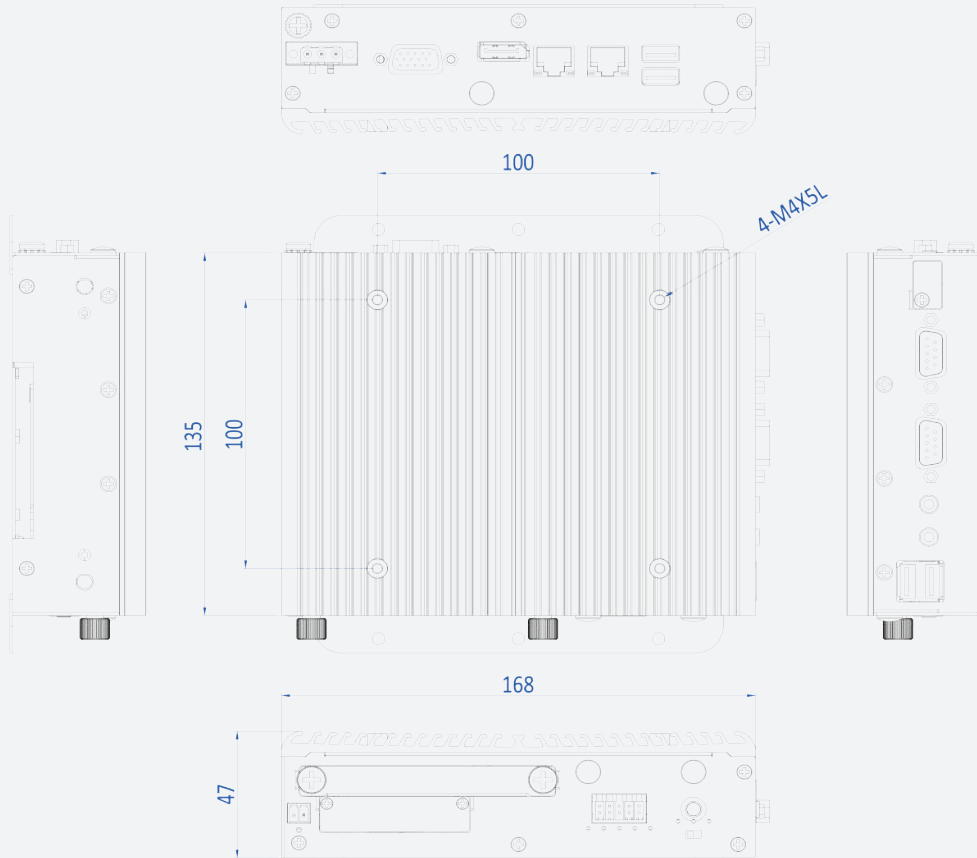
### Optional Items

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 mini PCIe
55000-0025-M5	Adapter AC/DC 12V 5A 60W GST60A12-GAV with 3-pin Terminal Block Plug 5.0mm Pitch
30100-0003-CA	Power Cord, 3-pin US Type, 180cm
30101-0005-CA	Power Cord, 3-pin EU Type, 180cm

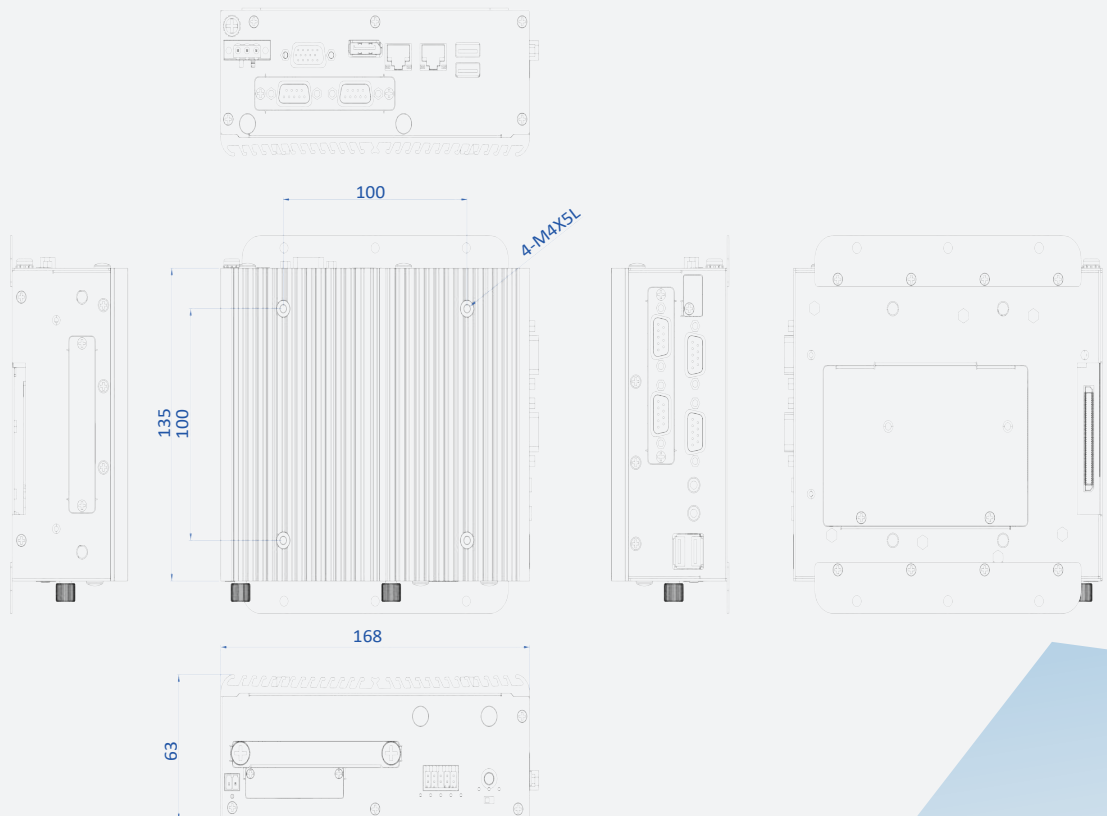
## Specifications

Model	PM-2100		PM-2110S	
Processor System	CPU	Intel® Pentium® N4200, 2.5GHz		
	Frequency	up to 2.50 GHz		
	System Chipset	N/A		
	BIOS	AMI BIOS, 128Mbit SPI Flash		
	TPM	TPM 2.0		
Memory	Technology	Single Channel DDR3L-1866MHz 204-Pin SO-DIMM Socket		
	Max. Capacity	Support up to 8GB (un-buffered and non-ECC)		
Display	Graphics Engine	Intel® HD Graphics 505		
	Multiple Display	3		
	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 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" HDD / SSD	1 x Removable 2.5" SATA HDD Bay		
	mSATA	1 x mSATA (Shared by 1 x Mini PCIe)		
Expansion	Mini-PCIe	1 x Full-size Mini PCIe Socket (PCIe, USB2.0 and SIM) 1 x Full-size Mini PCIe Socket (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 3-pin Terminal Block Connector		
	Power Adapter (Optional)	AC/DC, 12V/5A 60W		
	Car Mode	1 x PC/Car Mode Switch 1 x Delay Time Switch		
	Protection			
Environment	Operating Temperature	-40°C ~ 70°C		
	Storage Temperature	-40°C ~ 80°C		
	Humidity	10%~90%, Non-condensing		
	Vibration	IEC 60068-2-64: 1Grms, random, 5~500 Hz, 1hr/axis		
	Shock	IEC 60068-2-27: 15G, half-sine, 11ms duration		
General	Certification	CE/FCC Class A		
	Thermal Dissipation	Fanless system		
	Material	Extruded Aluminum with Heavy Duty Metal		
	Mounting	VESA Mounting (100 x 100mm)		
	Dimensions (W x D x H)	168 x 135 x 47mm	168 x 135 x 63 mm	
	Net Weight	1.1kg	1.45kg	
	Operating System	Windows 10 IoT, Windows 11 (IoT / Professional), Linux		

## Dimensions PM-2100



## Dimensions PM-2110S



## Viewing PM-2100

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



2 x SIM Holder

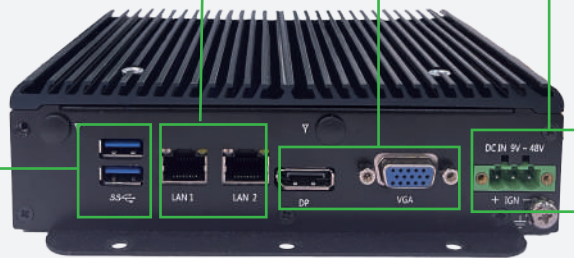
Isolated DI x 4 and DO x 4,  
2 x 5-pin Terminal Block

9~48V DC Input  
with Power Ignition Function

2 x GbE Intel® I210-AT, RJ45

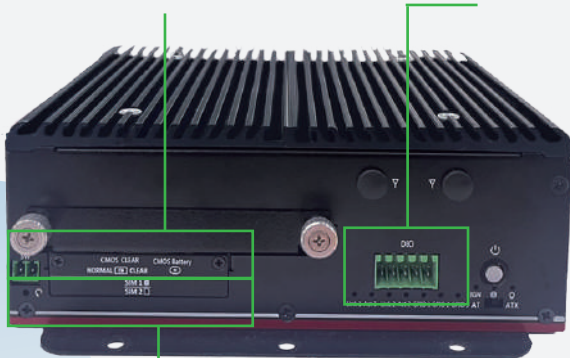
1 x VGA and 1 x DP

2 x USB3.0 (Gen 1)



## Viewing PM-2110S

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



2 x SIM Holders

Isolated 4 x DI and 4 x DO,  
2x5-pin Terminal Block

9~48V DC Input  
with Power Ignition Function

2 x GbE Intel® I210-AT, RJ45

6 x RS232/422/485

2 x USB3.0 (Gen 1)



1 x VGA and 1 x DP