

M1120 Series AMR Controller



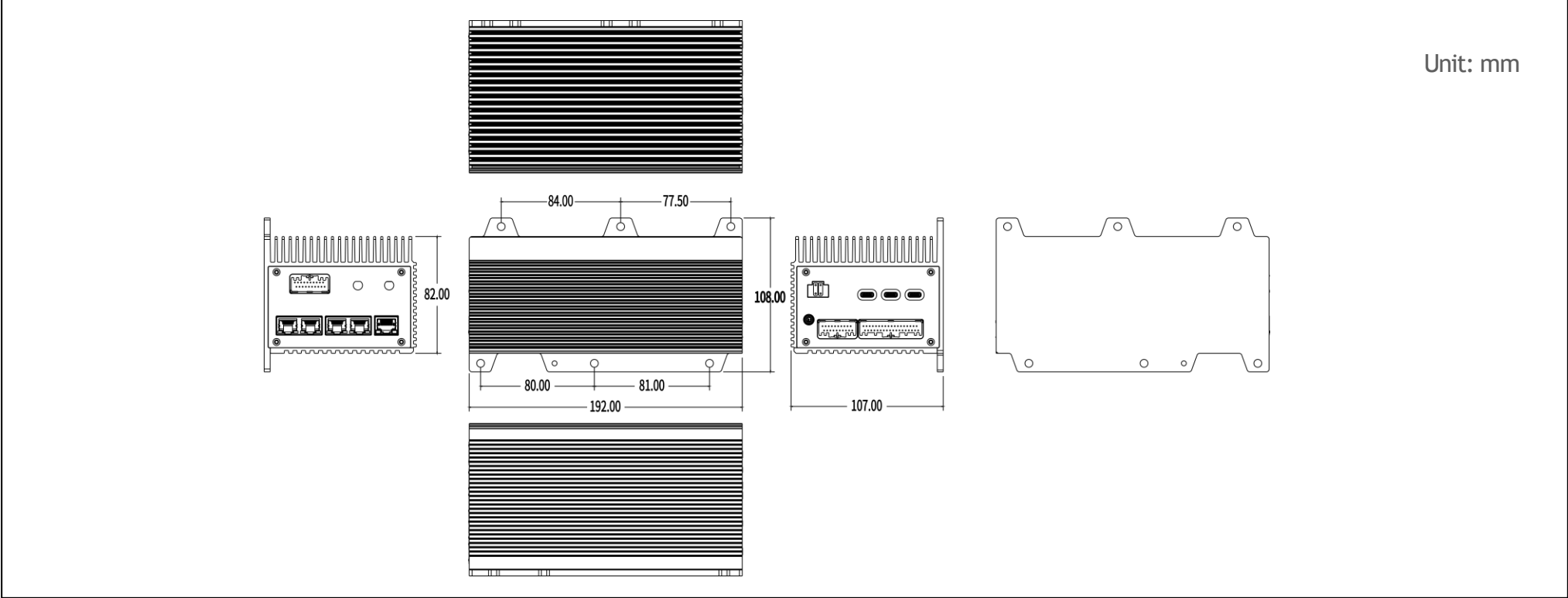
Features

- ✓ 12th Gen Intel® Alder Lake U and P Series CPU
- ✓ Dual channel DDR4-3200 up to 64GB
- ✓ 3 USB Type-C (1 support DP function)
- ✓ 4 GbE LAN (4 x Intel i210-AT)
- ✓ 1 RS-232/422/485, 2 RS-232, 3 RS-485
- ✓ 24 DI, 20 DO, 2 CANBus, 2 Encode
- ✓ Support 4G/5G, WiFi6 and UPS expansion
- ✓ DC 9~36V input
- ✓ Support Windows 10 64bit, Windows 11, Linux system

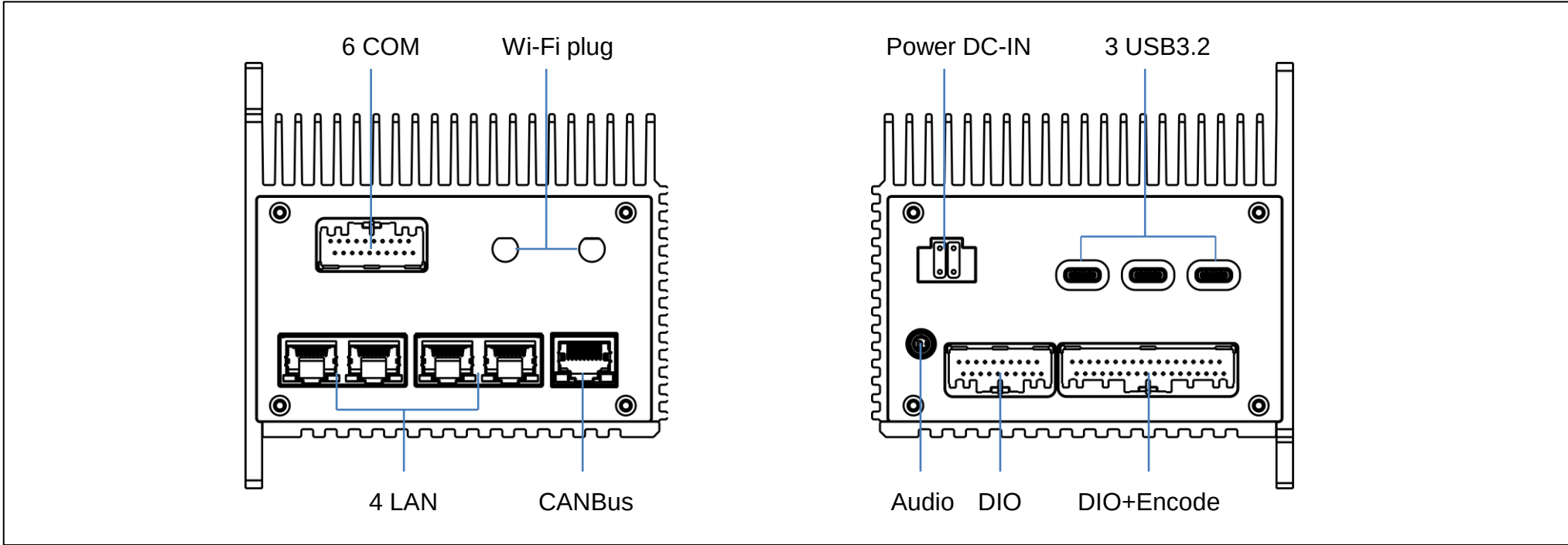
Specifications

Item	Sub-Items	Descriptions
Processor System	CPU	Intel® 12 th Gen Intel® Alder Lake U/P Series CPU (i3-1215U/i5-1235U/i7-1265U/i3-1220P/i5-1550P/i7-1270P)
	TDP	15W (U series)/28W (P series)
	BIOS	AMI 128Mbit SPI Flash
Memory	Technology	Dual Channel DDR4 3200MT/s SO-DIMM
	Max. Capacity	64 GB
Graphics	Controller	Intel® Iris Xe Graphics architecture with up to 96 Eus
	Max. Frequency	1.25 GHz
External I/O	Ethernet	4 x Intel i210-AT GbE LAN
	USB 3.2	3 (1 support DP function)
	COM	1 x RS-232/422/485, 2 RS-232, 3 x RS-485
	DIO	24 x DI, 20 x DO
	CAN	2 x CANBus via RJ45
	Encode	2
	Audio	1 x Line-Out/Mic-In
	Power DC Jack	Phoenix 4pin
Expansion	M.2 E-Key	1 x M.2 2230 Support Wi-Fi
	M.2 B-Key	1 x M.2 3052 Support 4G/5G
	M.2 M-Key	2 x M.2 2280 SATA3.0
	SIM	1 x Nano SIM
	IMU	1 x IMU
	UPS	1 x UPS (Optional)
	MIPI	4 x 4LAN MIPI
Power	Supply Voltage	DC 9~36V
Feature	Watch Dog	Timer Output System reset, Programmable counter from 1 ~ 255 minutes/seconds
	TPM	TPM 2.0 optional
Environment	Temperature	Operating: 0 ~ 50 °C (32~122°F)
		Storage: -40° C ~ 85° C (-40~185°F)
	Relative Humidity	Operating: 10 ~ 95% @ 40 °C (non-condensing) Operating: 10 ~ 95% @ 60 °C (non-condensing)
Physical Characteristics	Dimensions	192 x 107 x 82mm(LXW)
OS Support	OS Support	Windows 10, Windows 11, Linux

Dimensions



Interface



Ordering Information

Part Number	CPU	TDP	Max. Frequency	Core	Thread	LAN	USB 3.2	COM	CANBus	DI	DO	Encode	UPS
M1120-C3U	i3-1215U	15W	4.40 GHz	6	8	4	3	6	2	24	20	2	Optional
M1120-C5U	i5-1235U	15W	4.40 GHz	10	12	4	3	6	2	24	20	2	Optional
M1120-C7U	i7-1265U	15W	4.80 GHz	10	12	4	3	6	2	24	20	2	Optional
M1120-C3P	i3-1220P	28W	4.40 GHz	10	12	4	3	6	2	24	20	2	Optional
M1120-C5P	i5-1250P	28W	4.40 GHz	12	16	4	3	6	2	24	20	2	Optional
M1120-C7P	i7-1270P	28W	4.80 GHz	12	16	4	3	6	2	24	20	2	Optional