

E220 Series Industrial PC



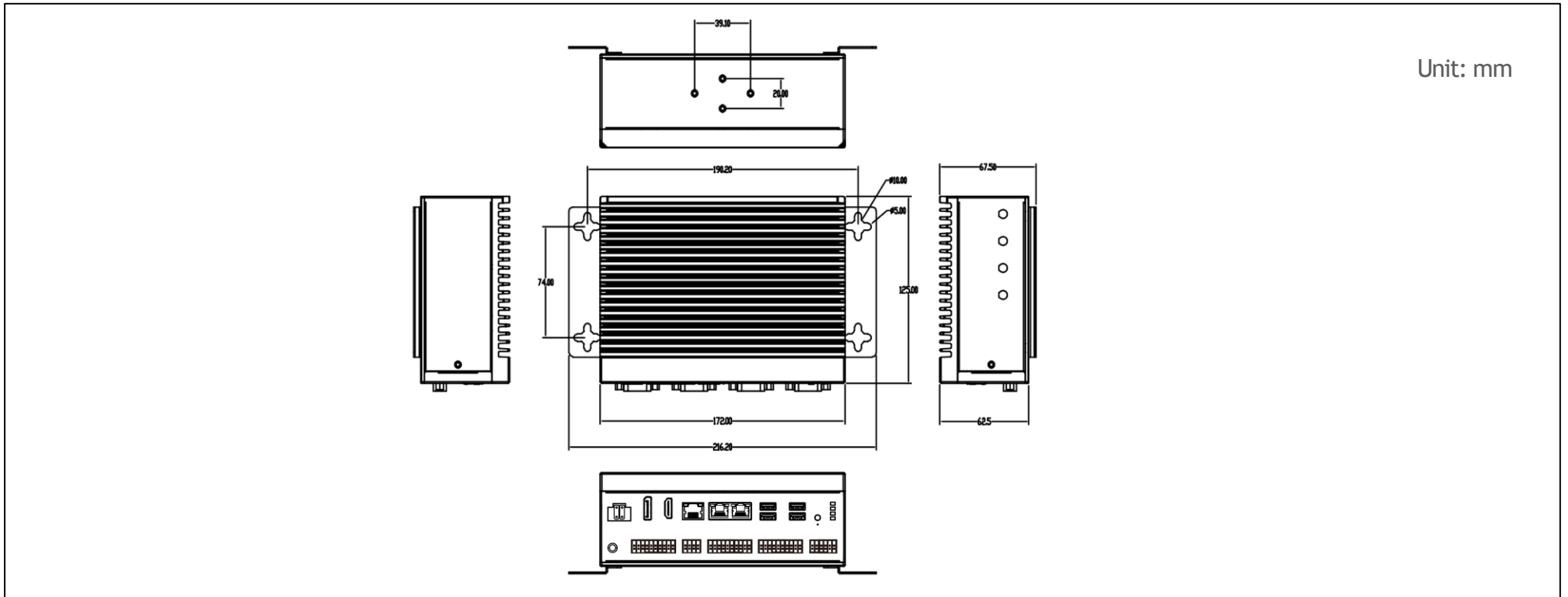
Features

- Intel® Alder Lake-N series N50/ N97/ N200/ i3-N305
- Single channel DDR5-4800 up to 16GB
- 2 independent display via DP and HDMI
- 3 LAN (2 x Intel i210-AT, 1 x Intel i226-V)
- 1 RS-232/422/485, 1 RS-232, 4 RS-485
- 2 USB 3.0, 2 USB 2.0
- 16 DI, 16 DO
- 2 CANBus, 2 Encoder
- Support UPS, 4G or 5G, Wi-Fi expansion
- DC 9-36V
- Dimensions: 172 x 125 x 62.5mm (L x W x H)
- CE/FCC Class B, ESD 8KV/15KV
- Windows 10/11, centos 8, ubuntu 20.04/22.04

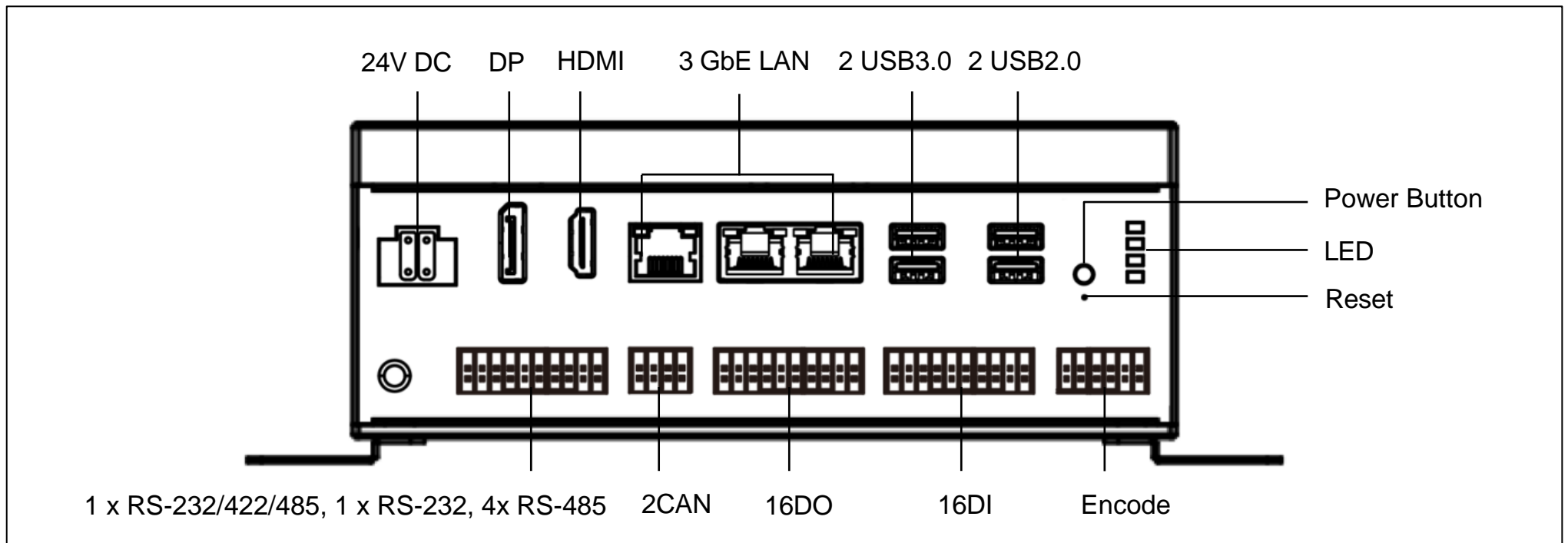
Specifications

Item	Sub-Items	Descriptions
Processor System	CPU	Intel® Alder Lake-N series N50/ N97/ N200/ i3-N305
	TDP	15W MAX
	BIOS	AMI 128Mbit SPI Flash
Memory	Technology	Single channel DDR5 4800MT/s SO-DIMM
	Max. Capacity	16 GB
Display	Controller	Intel Gen12 UHD Graphics Engines (SoC integrated)
	Graphic Features	DX12, Open GL 4.6, Vulkan 1.2
External I/O	DP	1 x DP1.4 up to 4096 x 2160@60Hz
	HDMI	1 x HDMI 2.0b up to 4096 x 2160@60Hz
	Ethernet	2 x Intel i210-AT GbE LAN, 1 x Intel i226-V 2.5GbE LAN
	COM	COM1: RS-232/422/485, COM2: RS-232, COM3-6: RS-485
	USB	2 x USB2.0, 2 x USB3.0
	CAN	2 x CANBus 2.0 A/B
	DIO	16 x DI (NPN or PNP, 10K), 16 x DO (NPN, 10K)
	Encoder	2 x Encode
	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	1 x M.2 2280 Sata3.0
	Internal USB2.0	3 x Internal USB2.0 (Pin out), 1 x Internal USB Type-A
	SIM	1 x Nano SIM
LED	LED Lights	Power status, HDD R/W, USER1, USER2
	Supply Voltage	DC 9-36V ± 10%
	Max. Consumption	60W
Power	Power Management	AT/ATX
	Watch Dog	Timer Output System reset, Programmable counter from 1 ~ 255 minutes/ seconds
Others	TPM	TPM 2.0 (optional)
	Operational Temperature	0 ~ 60 °C (32~140° F)
Environment	Storage Temperature	-40° C ~ 85° C (-40~185° F)
	Relative Humidity (Operating)	95% @ 40 °C (non-condensing)
	Relative Humidity (Storage)	95% @ 60 °C (non-condensing)
	Dimensions	172 x 125 x 62.5mm (L x W x H)
Physical Characteristics	Installation	Wall-mounting/Din Rail
	Certification	EMC
OS Support	OS Support	Windows 10/11, centos 8, ubuntu 20.04/22.04

Dimensions



Interface



Ordering Information

Part Number	CPU	TDP	Max. Frequency	Core	Thread	LAN	USB 3.0	USB 2.0	COM	DI	DO	CAN	Encode	UPS	4G/5G	Wi-Fi
E220-01	N50	6W	3.40 GHz	2	/	3	2	2	6	16	16	2	2	Optional	Optional	Optional
E220-02	N97	12W	3.60 GHz	4	/	3	2	2	6	16	16	2	2	Optional	Optional	Optional
E220-03	N200	6W	3.70 GHz	4	4	3	2	2	6	16	16	2	2	Optional	Optional	Optional
E220-04	i3-N305	15W	3.80 GHz	8	8	3	2	2	6	16	16	2	2	Optional	Optional	Optional