

# E220 Series



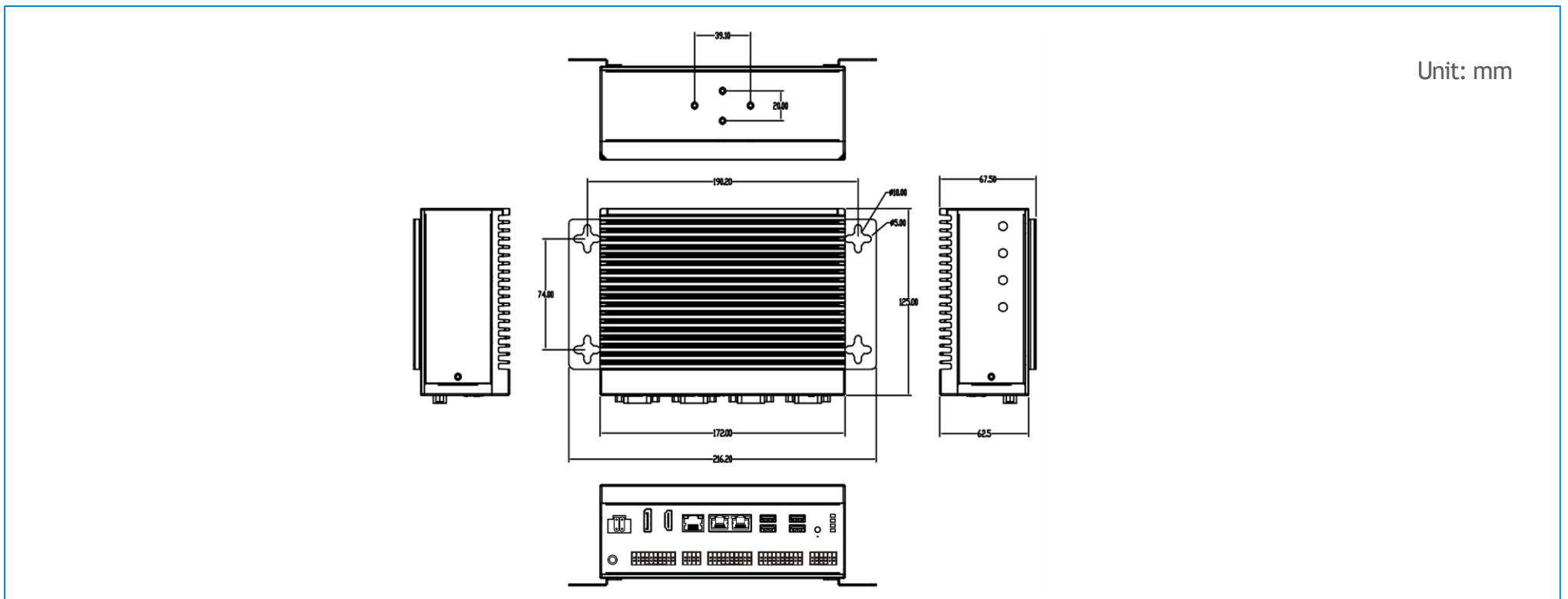
## Product Features

- Intel® Alder Lake-N N50/ N97/ N200/ i3-N305
- Single channel DDR5-4800 up to 16GB
- Dual independent display via DP and HDMI
- 3 LAN (2 x Intel i210 , 1 x Intel Realtek RTL8111H)
- 3 USB 3.0, 1 USB 2.0
- 1 RS-232/422/485, 1 RS-232, 4 RS-485
- 16 DI, 16 DO
- 2 CANBus, 2 Encoder
- Support 4G/5G, Wi-Fi module expansion
- DC 9-36V, UPS module is optional
- CE/FCC Class B, ESD 8KV/15KV
- Modular and cable-free design
- 172 x 125 x 62.5mm (L x W x H), support Wall-mounting/ Back-mounting/ Din Rail installation
- Windows 10/11, centos 8, ubuntu 20.04/22.04

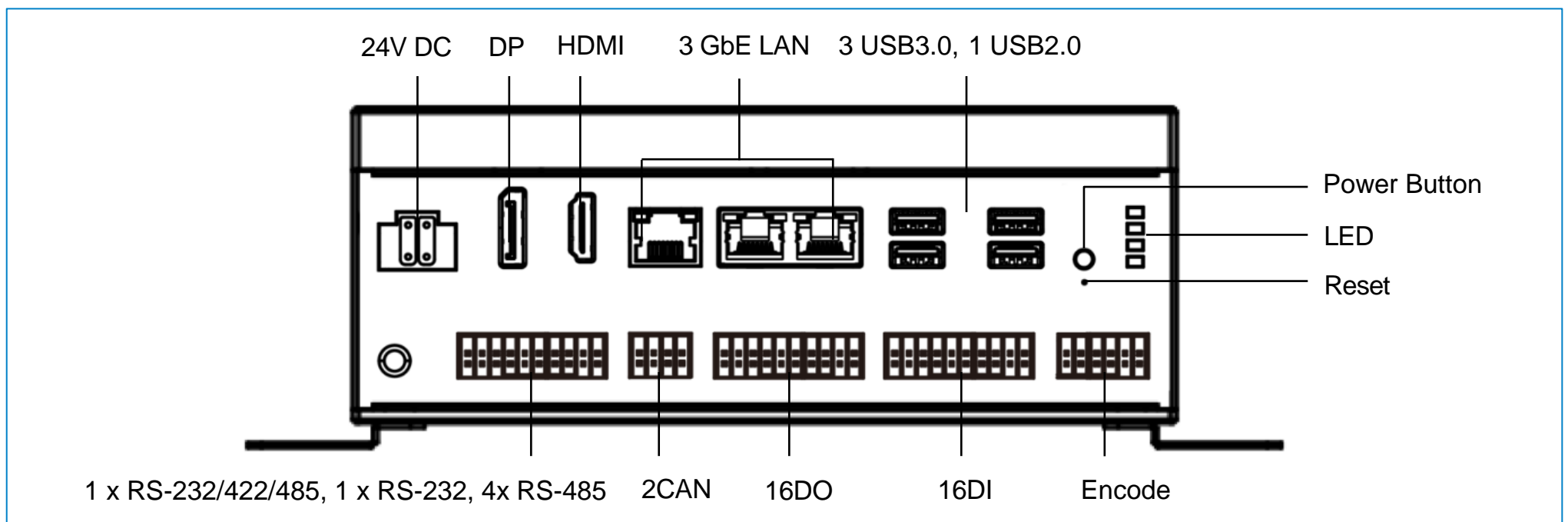
## Specification

	Item	Description
Processor System	CPU	Intel® Alder Lake-N series N50/ N97/ N200/ i3-N305
	TDP	15W MAX
	BIOS	AMI 128Mbit SPI Flash
Memory	Technology	DDR5 4800MT/s SO-DIMM
	Max Capacity	16 GB
Graphics	Controller	Intel Gen12 UHD Graphics Engines (SoC integrated)
	Feature	DX12, Open GL 4.6, Vulkan 1.2
External I/O	DP	1 x DP 1.4 resolution up to 4096 x 2304 @ 60Hz
	HDMI	1 x HDMI 2.0b resolution up to 4K x 2K @60Hz
	Ethernet	2 x Intel i210, 1 x Realtek RTL8111H GbE LAN
	USB	1 x USB2.0, 3 x USB3.0
	Serial Port	1 x RS-232/422/485, 1 x RS-232, 4 x RS-485
	CAN	2 x CANBus 2.0 A/B
	DIO	16 x DI (NPN or PNP, 10K), 16 x DO (NPN, 10K)
	Encoder	2 x Encoder
	Power Connector	4 PIN Phoenix terminal, support remote switch
LED & Switch	LED Indicator	Power, SATA, User defined 1, User defined 2
	Power Button	1 x Power Button
	Reset Button	1 x Reset Button
Internal Connectors	M.2 B-Key	1 x M.2 B-Key 3042/3052 support 4G/5G
	M.2 E-Key	1 x M.2 E-Key 2230 support CNVI
	M.2 B-Key	1 x M.2 B-Key 2280 Sata3.0
	USB 2.0	1 x internal USB 2.0 (PIN-Out), 1 x internal USB Type-A
	SIM	1 x Nano SIM
Power Supply	Power Input	DC 9~36V
	Power management	AT/ATX
	Max. consumption	60W
Others	Watchdog	Interrupt, system reset, programmable 1~255 min/sec
	TPM	TPM 2.0 (Optional)
Physical Characteristics	Dimension	172 x 125 x 62.5mm (L x W x H)
	Installation	Wall-mounting/ Back-mounting/ Din Rail
Environment	Operating Temperature	0 ~ 60 °C (32~140°F)
	Storage Temperature	-40° C ~ 85° C (-40~185°F)
	Operating Humidity	95% @ 40 °C (Non-condensing)
	Storage Humidity	95% @ 60 °C (Non-condensing)
Certification	EMC	CE, FCC
Operation System	OS	Windows 10/11, centos 8, ubuntu 20.04/22.04

## Dimension



## Interface



## Ordering Information

Model	CPU	Turbo Frequency	TDP	Core/Thread	LAN	COM	USB3.0	USB2.0	DI	DO	CAN	Encode	DP	HDMI	Power Input
E220-01	N50	3.40 GHz	6W	2C	3	6	3	1	16	16	2	2	1	1	9~36V DC
E220-02	N97	3.60 GHz	12W	4C	3	6	3	1	16	16	2	2	1	1	9~36V DC
E220-03	N200	3.70 GHz	6W	4C/4T	3	6	3	1	16	16	2	2	1	1	9~36V DC
E220-04	i3-N305	3.80 GHz	15W	8C/8T	3	6	3	1	16	16	2	2	1	1	9~36V DC

## Optional Accessories

Part Number	Description
-	WiFi+BT module M.2 2230 WIFI6 2T2R AW-XB547NF
MF0A00000000016	5G module, M.2 RM500Q-GL Sub-6 GHz Worldwide (Excluding US)
MF0A00000000042	5G LTE module, M.2 RM520NGLAA-M20-SGASA, Worldwide
MF0A00000000036	4G LTE module, M.2 EM05CEFC-128-SGAS, China
MF0A00000000066	5G LTE module, M.2 RM500UCNVAA-D10-SNADA EMEA, Asia-Pacific
82UPS00000000002	Internal UPS module
-	Din Rail Clip

## OS Support

Part Number	Description
AA0A000000000002	Win10 IoT Ent 2019 LTSC Entry OEM
AA0A000000000003	Win10 IoT Ent 2019 LTSC MultiLang ESD OEI High End
AA0A000000000004	Win10 IoT Ent 2019 LTSC MultiLang ESD OEI Value
AA0A000000000005	Win10 IoT Ent 2021 LTSC Multilang ESD OEI Entry
A087	Win 11
A088	centos 8
A049	ubuntu 20.04 (E220)
A053	ubuntu 22.04 (E220)

## Packing List

Part Number	Description	Quantity
-	E220 Series Industrial PC	1
KE0A000000000004	Round head screws	6
ZM0A000000000020	Three-plug power cord	1
ZM0A000000000058	24V 2.5A power adapter with 4 PIN terminal	1
MC0A000000000019	Wall-mounting kits (100*37*1mm)	1