

E512F-AS Series



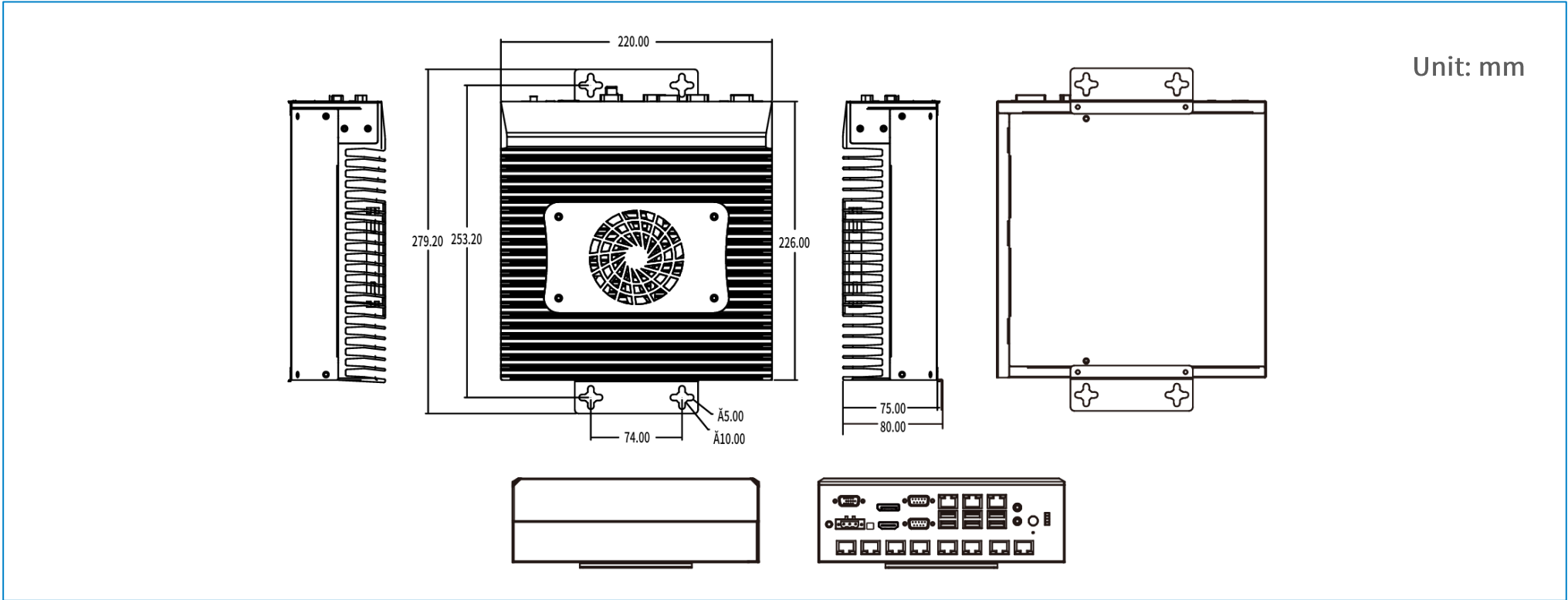
Features

- 10th/11th Gen Intel® Core™ i3/i5/i7 Series Processors
- H470 / Q470 Chipset
- Dual-channel DDR4, up to 64GB Memory
- 3 displays: DP, VGA and HDMI (Independent Triple Display)
- 11 GbE LAN (10 x Intel i210, 1 x Intel i219)
- 1 RS-232/422/485, 1 RS-232
- 6 USB3.0
- Support for 2 SATA RAID (RAID 0/RAID 1, BIOS Switchable)
- Support for 4G/5G, Wi-Fi Wireless Module Expansion
- DC 24V (9-36V Optional Configuration)
- Optional External UPS Module
- 220 x 226 x 75 mm (L x W x H, Wall-mounting Supported)
- Modular, Cable-free High-reliability Design
- CE/FCC Class B, ESD 8KV/15KV
- Windows 10/11, centos 8, ubuntu 20.04/22.04

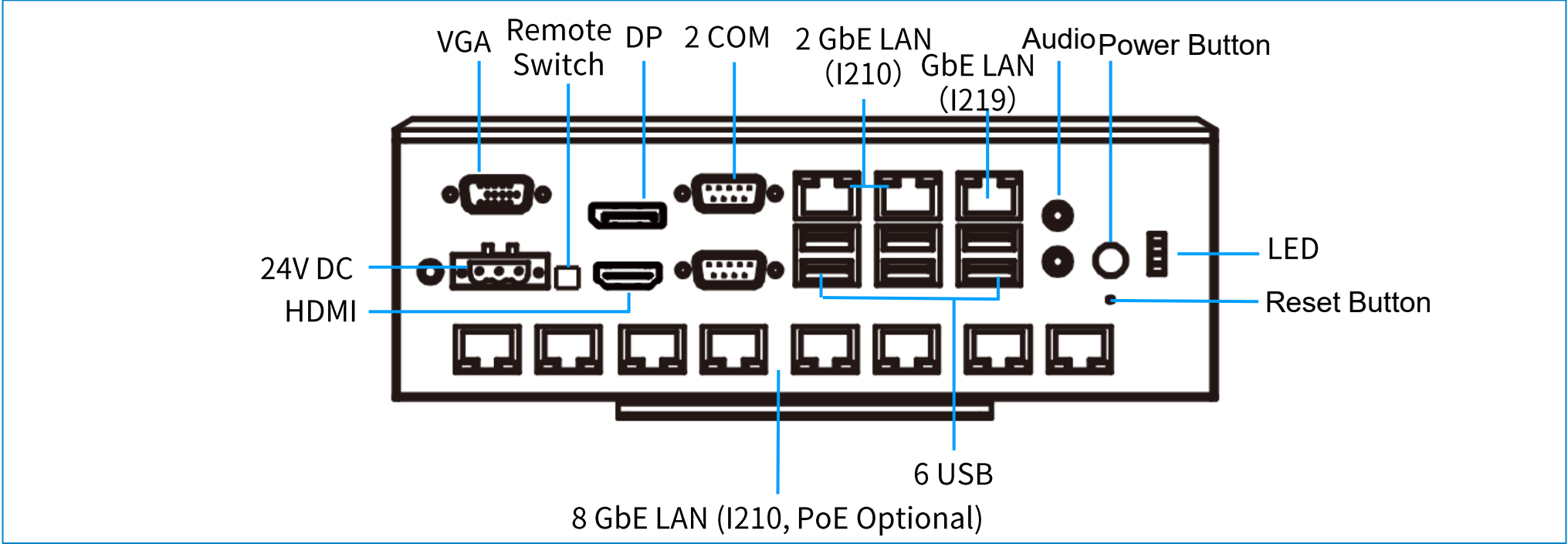
Specifications

Items		Descriptions
Processor System	CPU	10th/11th Gen Intel® Core™ i3/i5/i7 Series Processors
	TDP	65W MAX
	Socket	LGA1200
	Chipset	H470 / Q470
	BIOS	AMI 128Mbit SPI Flash
Memory	Sockets	Dual channel 260-PIN DDR4 SO-DIMM
	Capacity	Max. 64GB
Graphics	Controller	Intel UHD Graphics supports DirectX12, OpenGL 4.5 and OpenCL 2.1
	Graphic Features	3D Acceleration: Direct3D 2015, OpenGL4.5, OpenCL2.1 HW Decode: HEVC/H.265 (8/10-bit), AVC/H.264, VP9(8/10-bit),VP8, MPEG2,MJPEG,VC-1 HW Encode: HEVC/H.265 (8/10-bit), AVC/H.264, VP9(8-bit),VP8, MPEG2,MJPEG
External IO	DP	1 x DP1.4 up to 4096x2304@60Hz
	HDMI	1 x HDMI2.0 up to 4096 x 2160@60 Hz
	VGA	1 x VGA up to 1920 x 1080@60Hz
	Ethernet	10 x Intel i210 GbE LAN (8-port PoE Optional, Max. 60W), 1 x Intel i219 GbE LAN
	Serial Port	1 x RS-232/422/485, 1 x RS-232
	USB 3.0	6 USB3.0
	Audio	1 x Line out, 1 x Mic in
	Remote Switch	1 x Remote Switch
	Power DC Jack	3-pin Phoenix Terminal
LED & Switch	LED	HDD LED, Memory LED, USER1, USER2
	Power Button	1 x Power Button
	Reset Button	1 x Reset Button
Expansion	M.2 E-Key	1 x M.2 2230, supports Wi-Fi (Supports CNVI and PCIe Protocols Simultaneously)
	M.2 B-Key	1 x M.2 3052, supports 4G/5G
	M.2 B-Key	2 x M.2 2280 SATA3.0 (RAID 0/RAID 1 Supported, BIOS Switchable)
	SIM	1 x Nano SIM
Power Requirement	Input Voltage	24V DC (9-36V Optional Configuration)
	Power Management	AT/ATX
	Max. Consumption	180W (Non-PoE) / 240W (8-port PoE)
Others	Watchdog	65536 Levels, 0~65535 Seconds
	TPM	TPM2.0 (Optional)
Physical Characteristics	Structure	Aluminum Alloy
	Mounting	Wall Mounting
	Dimensions	220 x 226 x 75mm (L x W x H)
	Weight	3.4 kg
Environment	Operating Temperature	0~50°C (32~122°F)
	Storage Temperature	-40~85 °C (-40~185°F)
	Operating Humidity	95% @ 40 °C(Non-Condensing)
	Storage Humidity	95% @ 60 °C(Non-Condensing)
Certification OS	EMC	CE, FCC
	Operation system	Windows 10/11, centos 8, ubuntu 20.04/22.04/24.04

Dimensions



Interface



Ordering Information

Part Number	CPU	TDP	Max. Frequency	Core	Thread	LAN	COM	USB3.0	DP	HDMI	VGA	DC-Input
E512F-AS-3000	i3-10100	65W	4.30 GHz	4	8	11	2	6	1	1	1	24V DC
E512F-AS-5000	i5-10400	65W	4.30 GHz	6	12	11	2	6	1	1	1	24V DC
E512F-AS-5000	i5-10500	65W	4.50 GHz	6	12	11	2	6	1	1	1	24V DC
E512F-AS-7000	i7-10700	65W	4.80 GHz	8	16	11	2	6	1	1	1	24V DC
E512F-BS-5000	i5-11400	65W	4.40 GHz	6	12	11	2	6	1	1	1	24V DC
E512F-BS-7000	i7-11700	65W	4.90 GHz	8	16	11	2	6	1	1	1	24V DC

Optional Accessories

Part Number	Description
-	WIFI+BT module M.2 2230 WIFI6 2T2R AW-XB547NF
MF0A000000000016	5G module, M.2 RM500Q-GL Sub-6 GHz Worldwide (Excluding US)
MF0A000000000042	5G LTE module, M.2 RM520NGLAA-M20-SGASA, Worldwide
MF0A000000000036	4G LTE module, M.2 EM05CEFC-128-SGAS, China
MF0A000000000066	5G LTE module, M.2 RM500UCNVAA-D10-SNADA EMEA/Asia-Pacific

Packing List

Part Number	Description	Quantity
-	E512F-AS Series Fanless Industrial PC	1
KE0A000000000004	Round head screws	4
ZM0A000000000020	Three-plug power cord	1
ZM0A000000000058	Power Adapter with Phoenix 4pin (Power Varies by CPU)	1
MC0A000000000019	Wall-mounting kits (100*37*1mm)	1

Optional OS

	Description
Windows	Win10 IoT Ent 2019 LTSC Entry OEM
	Win10 IoT Ent 2019 LTSC MultiLang ESD OEI High End
	Win10 IoT Ent 2019 LTSC MultiLang ESD OEI Value
	Win10 IoT Ent 2021 LTSC Multilang ESD OEI Entry
	Win 11
Linux	centos 8
	ubuntu 20.04
	ubuntu 22.04