

E511A Series



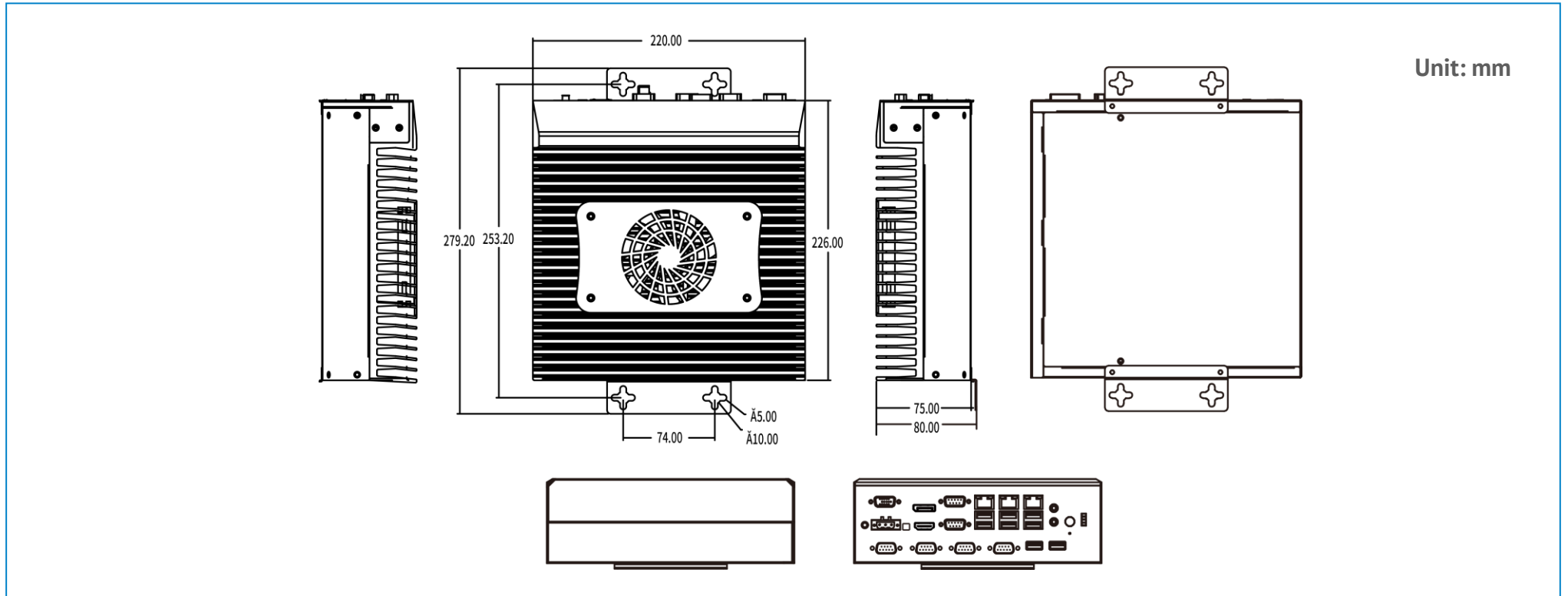
Features

- Intel® 10th generation Core™ i3/ i5/ i7 Series CPU
- H420E/ Q470 Chipset
- Dual channel DDR4 up to 64GB
- 3 displays: DP, VGA and HDMI (Q470: 3 independent displays, H420E: 2 independent displays)
- 3 GbE LAN (2 x Intel i210, 1 x Intel i219)
- 1 RS-232/422/485, 2 RS-232/485, 3 RS-232
- 4 USB3.0, 4 USB2.0 (H420E) or 6 USB3.0, 2 USB2.0 (Q470)
- Support 4G/5G, Wi-Fi module expansion
- DC 24V
- 220 x 226 x 75 mm (L x W x H), support Wall-mounting
- Modular and cable-free design
- CE/FCC Class B, ESD 8KV/15KV
- Windows 10/11, centos 8, ubuntu 20.04/22.04

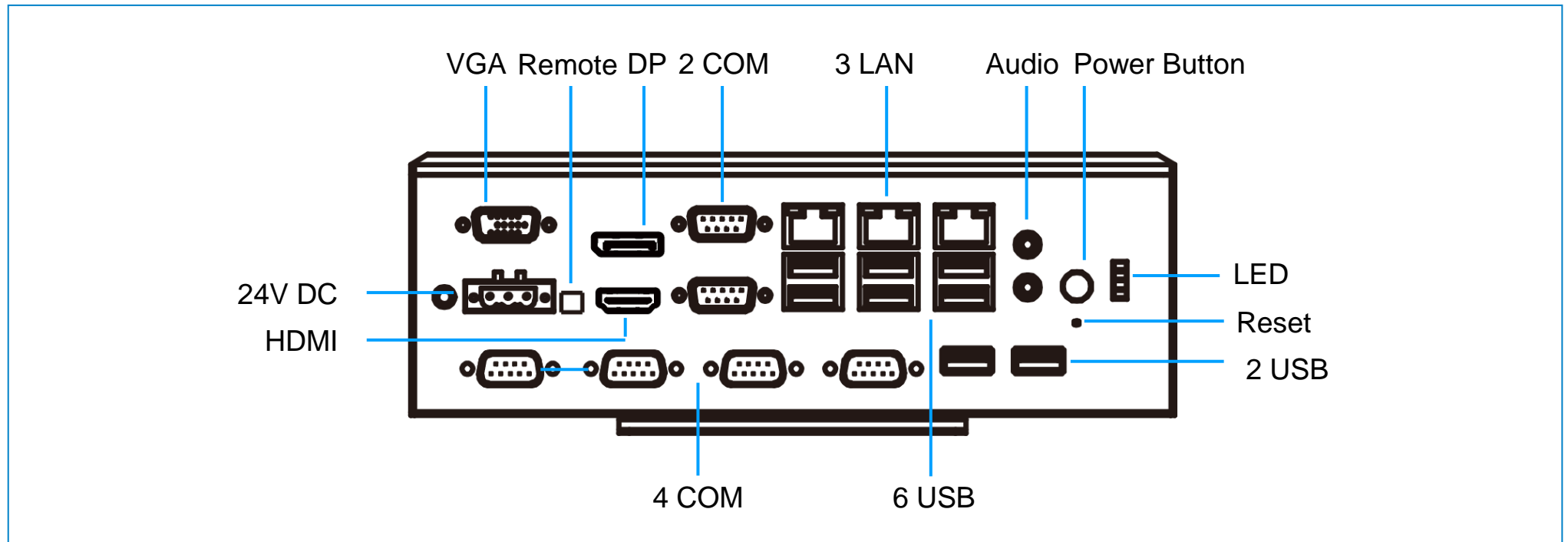
Specifications

Item	Sub-Items	Descriptions
Processor System	CPU	Intel® 10th Gen Core™ Processors (i3-10100/i5-10400/i5-10500/i7-10700)
	TDP	65W MAX
	Socket	LGA1200
	Chipset	H420E/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 I/O	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
	LAN	2 x Intel i210 GbE LAN, 1 x Intel i219 GbE LAN
	Serial Ports	1 x RS-232/422/485, 2 x RS-232/485, 3 x RS-232
	USB 3.0	4 (H420E)/ 6 (Q470)
	USB 2.0	4 (H420E)/ 2 (Q470)
	Audio	1 x Line out, 1 x Mic in
LED & Switch	Reset	1 x Reset Button
	Power Button	1 x Power Button
	LED	4 (SATA/DG/USER1/USER2)
Expansion	USB 2.0	1 x internal USB2.0 Type-A support dongle
	M.2 E-Key	1 x M.2 2230 support Wi-Fi6
	M.2 B-Key	1 x M.2 3052 B-Key support 4G/5G
	M.2 M-Key	1 x M.2 2280 M-Key SATA3.0
	SIM	1 x Micro SIM
Power Requirement	Power Type	24V DC input
	Power management	AT/ATX
	Max. Consumption	150W
Others	Watchdog	65536 lever, 0~65535 sec
	TPM	TPM2.0 (Optional)
Physical Characteristics	Construction	Aluminum Alloy
	Mounting	Wall Mounting
	Dimensions	220 x 226 x 75 mm (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 Relative Humidity	95% @ 40 °C(Non-Condensing)
	Non-Operating Relative Humidity	95% @ 60 °C(Non-Condensing)
Certification OS	EMC	CE, FCC
	Operation system	Windows 10/11, centos 8, ubuntu 20.04/22.04

Dimensions



Interface



Ordering Information

Part Number	CPU	TDP	Max. Frequency	Core	Thread	GbE	COM	USB3.0	USB2.0	M.2	DC-Input
E511A-01	i3-10100	65W	4.30 GHz	4	8	3	6	4 or 6	4 or 2	3	24V DC
E511A-02	i5-10400	65W	4.30 GHz	6	12	3	6	4 or 6	4 or 2	3	24V DC
E511A-03	i5-10500	65W	4.50 GHz	6	12	3	6	4 or 6	4 or 2	3	24V DC
E511A-04	i7-10700	65W	4.80 GHz	8	16	3	6	4 or 6	4 or 2	3	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

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
A053	ubuntu 22.04

Packing List

Part Number	Description	Quantity
-	E511A Series Embedded PC	1
KE0A000000000004	Round head screws	4
ZM0A000000000020	Three-plug power cord	1
ZM0A000000000028	24V 5A power adaptor with 3 PIN Phoenix terminal (Below i7)	1
ZM0A000000000084	24V 7.5A Power adaptor with 3PIN terminal (i7)	1
MC0A000000000019	Wall-mounting kits (100*37*1mm)	1