

E551F-A Series Industrial PC

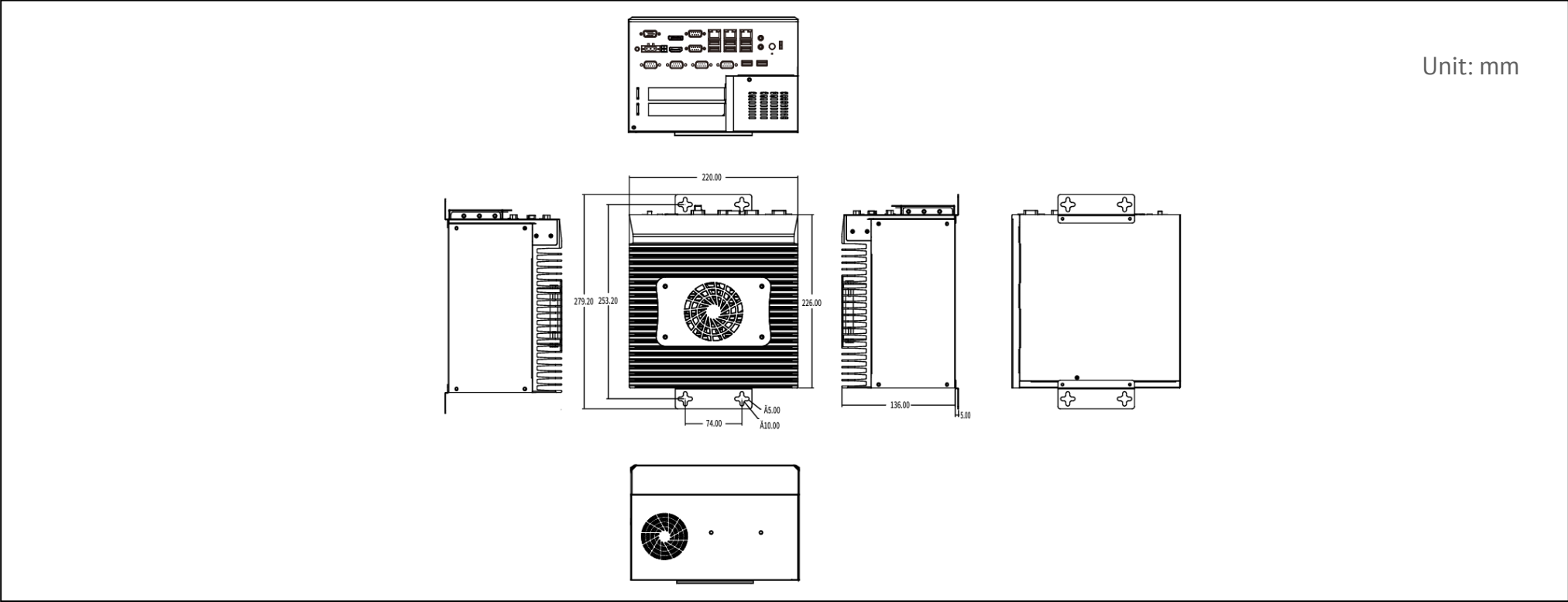
Features

- Intel® 10th Gen Comet Lake S series Processors
- Chipset: H420E/Q470/H470
- Dual channel DDR4 up to 64GB
- 3 independent displays via DP, VGA and HDMI
- 3 GbE LAN (2 x Intel i210-AT, 1 x Intel i219-LM)
- 1 RS-232/422/485, 3 RS-232/485, 2 RS-232
- 4 USB3.0, 4 USB2.0 (H420E) or 6 USB3.0, 2 USB2.0 (Q470/H470)
- 1 PCIe 3.0 x16 slot, 1 PCIe 3.0 x4 (x2 signal) or PCI slot
- H470 support 2 SATA RAID (support RAID 0/RAID 1, switchable in BIOS)
- Optional configuration of external UPS module
- 4G/5G, Wi-Fi expansion
- DC 24V (9-36V configuration is optional)
- Dimensions: 220 x 226 x 75 mm (L x W x H)
- CE/FCC Class B, ESD 8KV/15KV
- Windows 10/11, centos 8, ubuntu 20.04/22.04

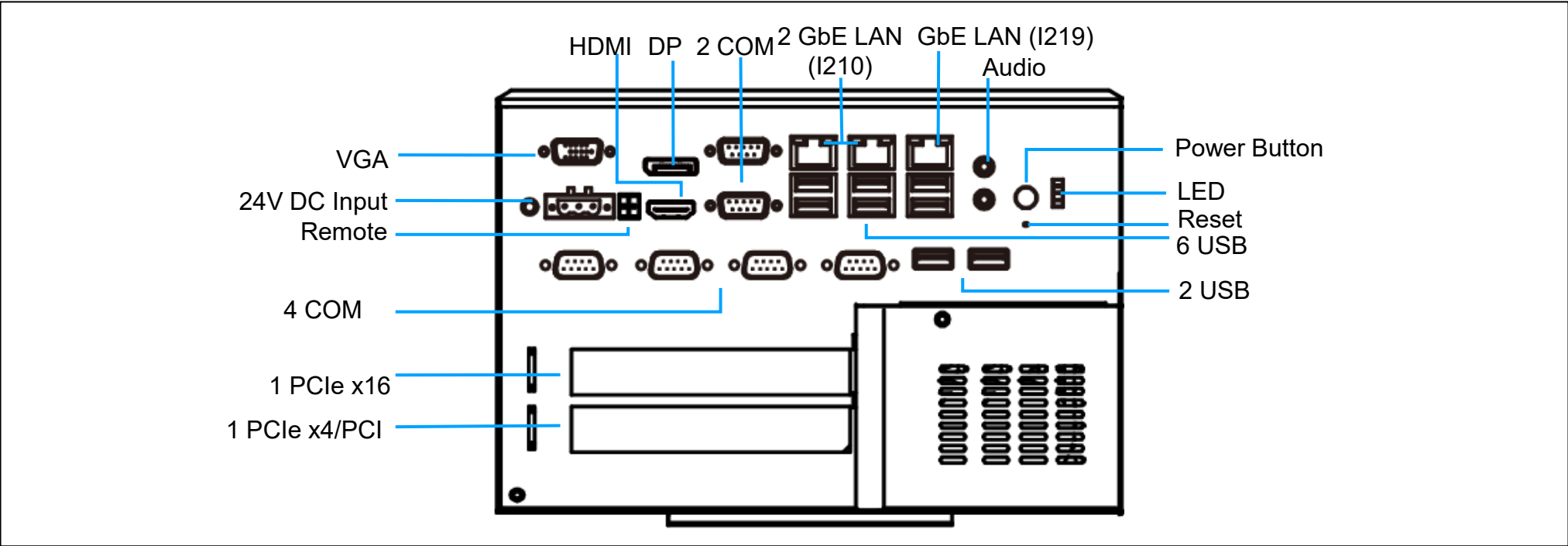
Specifications

Item	Sub-Items	Descriptions
Processor System	CPU	Intel® 10th Gen Comet Lake S series Processors (i3-10100/ i5-10400/ i5-10500/ i7-10700/ i9-10900)
	TDP	65W MAX
	Socket	LGA1200
	Chipset	H420E/Q470/H470
	BIOS	AMI 256Mbit 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
	LAN	2 x Intel i210-AT GbE, 1 x Intel i219-LM GbE
	USB 3.0	4 (H420E)/ 6 (Q470/H470)
	USB 2.0	4 (H420E)/ 2 (Q470/H470)
	Serial Ports	1 RS-232/422/485, 3 RS-232/485, 2 RS-232
	Audio	1 x Line out, 1 x Mic in
	LED	4 (SATA/DG/USER1/USER2)
Expansion	PCIe and PCI	1 x PCIe 3.0 x16 slot, 1 x PCIe 3.0 x4 (x2 signal) or PCI slot
	USB 2.0	1 x internal USB2.0 Type-A
	M.2 E-Key	1 x M.2 2230 support Wi-Fi (H470/Q470: support both CNVi and PCIe protocol; H420E: support PCIe protocol)
	M.2 B-Key	1 x M.2 3052 B-Key support 4G/5G
	M.2 M-Key	2 x M.2 2280 M-Key SATA3.0 (Q470 / H470 support RAID 0/RAID 1, switchable in BIOS)
	SIM	1 x Nano SIM
Power Requirement	Power Type	24V DC input (9-36V configuration is optional)
	Power management	AT/ATX
	Max. Consumption	150W
Others	Watchdog	65536 lever, 0~65535 sec
	TPM	TPM2.0 (Optional)
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)
Physical Characteristics	Construction	Aluminium Alloy
	Mounting	Wall Mounting
	Dimensions	220 x 226 x 136mm (LxWxH)
	Weight	4.0 Kg
Certification	EMC	CE, FCC
OS	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	Expansion	M.2	UPS	4G/5G	Wi-Fi	DC-Input
E551F-A-01	i3-10100	65W	4.30 GHz	4	8	3	6	4 or 6	4 or 2	1 PCIe x16 1PCIe x4(x2 signal)/PCI	4	Optional	Optional	Optional	24V DC
E551F-A-02	i5-10400	65W	4.30 GHz	6	12	3	6	4 or 6	4 or 2	1 PCIe x16 1PCIe x4(x2 signal)/PCI	4	Optional	Optional	Optional	24V DC
E551F-A-03	i5-10500	65W	4.50 GHz	6	12	3	6	4 or 6	4 or 2	1 PCIe x16 1PCIe x4(x2 signal)/PCI	4	Optional	Optional	Optional	24V DC
E551F-A-04	i7-10700	65W	4.80 GHz	8	16	3	6	4 or 6	4 or 2	1 PCIe x16 1PCIe x4(x2 signal)/PCI	4	Optional	Optional	Optional	24V DC
E551F-A-05	i9-10900	65W	5.20 GHz	10	20	3	6	4 or 6	4 or 2	1 PCIe x16 1PCIe x4(x2 signal)/PCI	4	Optional	Optional	Optional	24V DC