

E500F-A Series

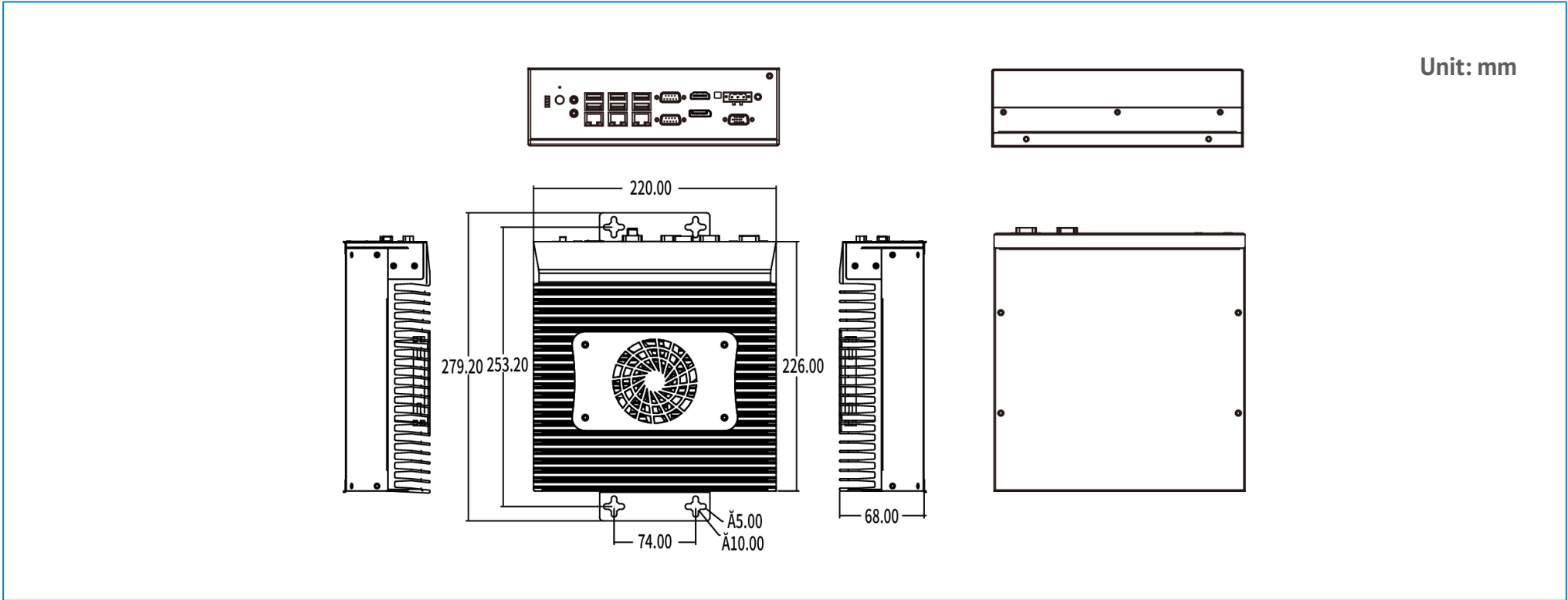
Product Features

- 10th Gen Intel® Core™ i3/ i5/ i7 CPU
- Q470 / H470 / H420E chipset
- Dual channel DDR4 up to 64GB memory
- 3 displays: 1 DP, 1 HDMI, 1 VGA (H420E: 2 independent display, Q470/H470: 3 independent display)
- 3 GbE LAN (2 x Intel i210, 1 x Intel i219)
- 1 RS-232/422/485, 1 RS-232
- 4 USB 3.0, 2 USB 2.0 (H420E) or 6 USB3.0 (Q470/H470)
- Q470/H470 support 2 SATA RAID (support RAID 0/RAID 1, switchable in BIOS)
- Support 4G/5G, Wi-Fi module expansion
- DC 24V (9-36V configuration is optional)
- Optional configuration of external UPS module
- 220 x 226 x 68 mm (L x W x H), support wall-mounting
- Modular and cable-free reliable design
- CE/FCC Class B, ESD 8KV/15KV
- Windows 10/11 and Linux multiple version OS

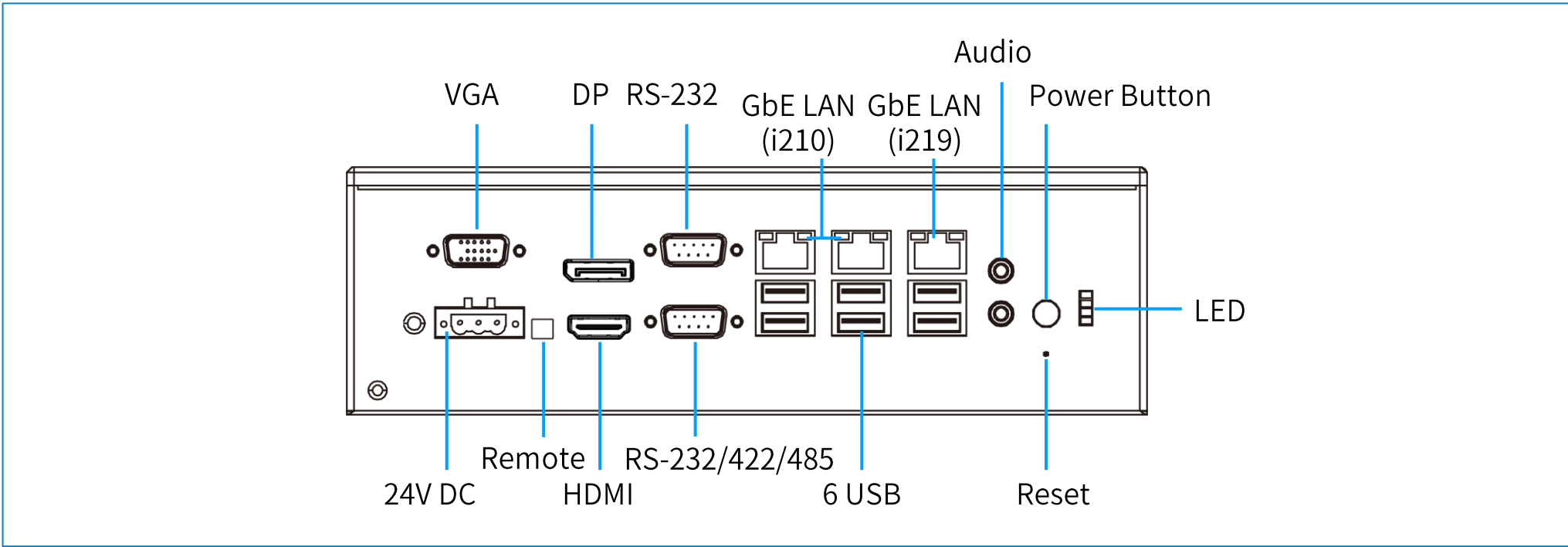
Specifications

Item		Description
Processor System	CPU	10 th Gen Intel® Core™ i3/ i5/ i7 CPU
	TDP	Max. 65W
	Socket	LGA1200
	Chipset	Q470 / H470 / H420E
	BIOS	AMI 256Mbit SPI Flash
Memory	Technology	Dual channel 260-PIN DDR4 SO-DIMM
	Capacity	Max 64GB
Graphics	Controller	Intel UHD Graphics supports DirectX12, OpenGL 4.5 and OpenCL 2.1
	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, resolution up to 4096x2304@60Hz
	HDMI	1 x HDMI1.4, resolution up to 4096 x 2160@30 Hz
	VGA	1 x VGA, resolution up to 1920 x 1200@60Hz
	Ethernet	2 x Intel i210 GbE LAN, 1 x Intel i219 GbE LAN
	Serial Port	COM 1: RS-232/422/485, COM 2: RS-232
	USB 3.0	4 (H420E)/ 6 (Q470/H470)
	USB 2.0	2 (H420E)/ 0 (Q470/H470)
	Audio	1 x Line out, 1 x Mic in
	Remote	1 x Remote
	Power Input Connector	3 PIN Phoenix terminal
LED & Switch	LED	SATA, Memory, User-defined 1, User-defined 2
	Power Button	1 x Power Button
	Reset	1 x Reset Button
Internal Connectors	M.2 E-Key	1 x M.2 2230 support Wi-Fi (Q470/H470: support both CNVI and PCIe protocol; H420E: support PCIe protocol)
	M.2 B-Key	1 x M.2 3052 support 4G/5G
	M.2 B-Key	2 x M.2 2280 SATA3.0 (Q470 / H470 support RAID 0/RAID 1, switchable in BIOS)
	SIM	1 x Nano SIM
Power Supply	Power Input	24V DC (9-36V configuration is optional)
	Power Management	AT/ATX
	Max. consumption	150W
Others	Watchdog	65536 level, 0~65535 sec
	TPM	TPM2.0 (Optional)
Physical Characteristics	Construction	Aluminum alloy
	Size	220 x 226 x 68 mm (L x W x H)
	Weight	3.0 kg
	Installation	Wall-mount
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	EMC	CE, FCC
Operation System	OS	Windows 10/11, centos 8, ubuntu 20.04/22.04/24.04

Dimension



Interfaces



Ordering Information

Model	CPU	TDP	Turbo Frequency	Core	Thread	LAN	COM	USB3.0	USB2.0	DP	HDMI	VGA	Power
E500F-A-3000	i3-10100	65W	4.30 GHz	4	8	3	2	4 or 6	2 or 0	1	1	1	24V DC
E500F-A-5000	i5-10400	65W	4.30 GHz	6	12	3	2	4 or 6	2 or 0	1	1	1	24V DC
E500F-A-5000	i5-10500	65W	4.50 GHz	6	12	3	2	4 or 6	2 or 0	1	1	1	24V DC
E500F-A-7000	i7-10700	65W	4.80 GHz	8	16	3	2	4 or 6	2 or 0	1	1	1	24V DC

Optional Accessories

Part Number	Description
MF0A000000000069	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

Operation System

	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 20.04~24.04

Packing List

Part Number	Description	Quantity
-	E500F-A 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	1

E500F-B Series

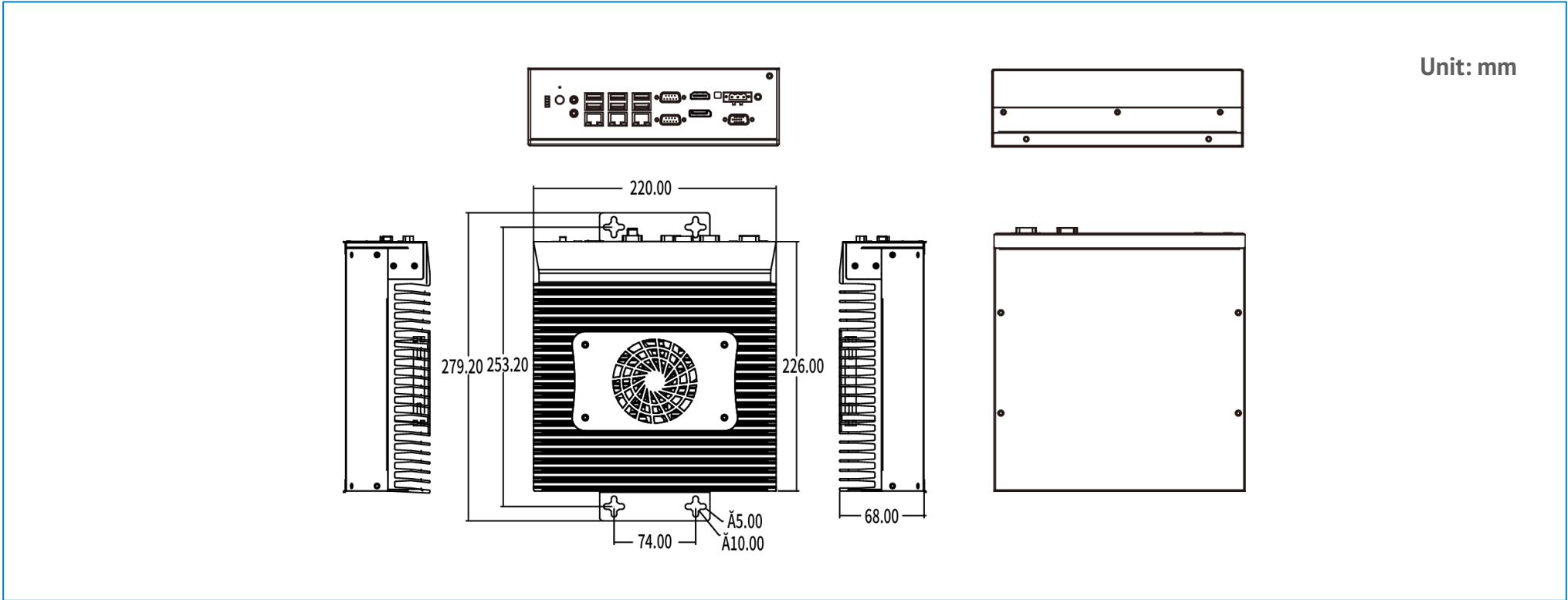
Product Features

- 11th Gen Intel® Core™ i3/ i5/ i7 CPU
- Q470 / H470 / H420E chipset
- Dual channel DDR4 up to 64GB memory
- 3 displays: 1 DP, 1 HDMI, 1 VGA (H420E: 2 independent display, Q470/H470: 3 independent display)
- 3 GbE LAN (2 x Intel i210, 1 x Intel i219)
- 1 RS-232/422/485, 1 RS-232
- 4 USB 3.0, 2 USB 2.0 (H420E) or 6 USB3.0 (Q470/H470)
- Q470/H470 support 2 SATA RAID (support RAID 0/RAID 1, switchable in BIOS)
- Support 4G/5G, Wi-Fi module expansion
- DC 24V (9-36V configuration is optional)
- Optional configuration of external UPS module
- 220 x 226 x 68 mm (L x W x H), support wall-mounting
- Modular and cable-free reliable design
- CE/FCC Class B, ESD 8KV/15KV
- Windows 10/11 and Linux multiple version OS

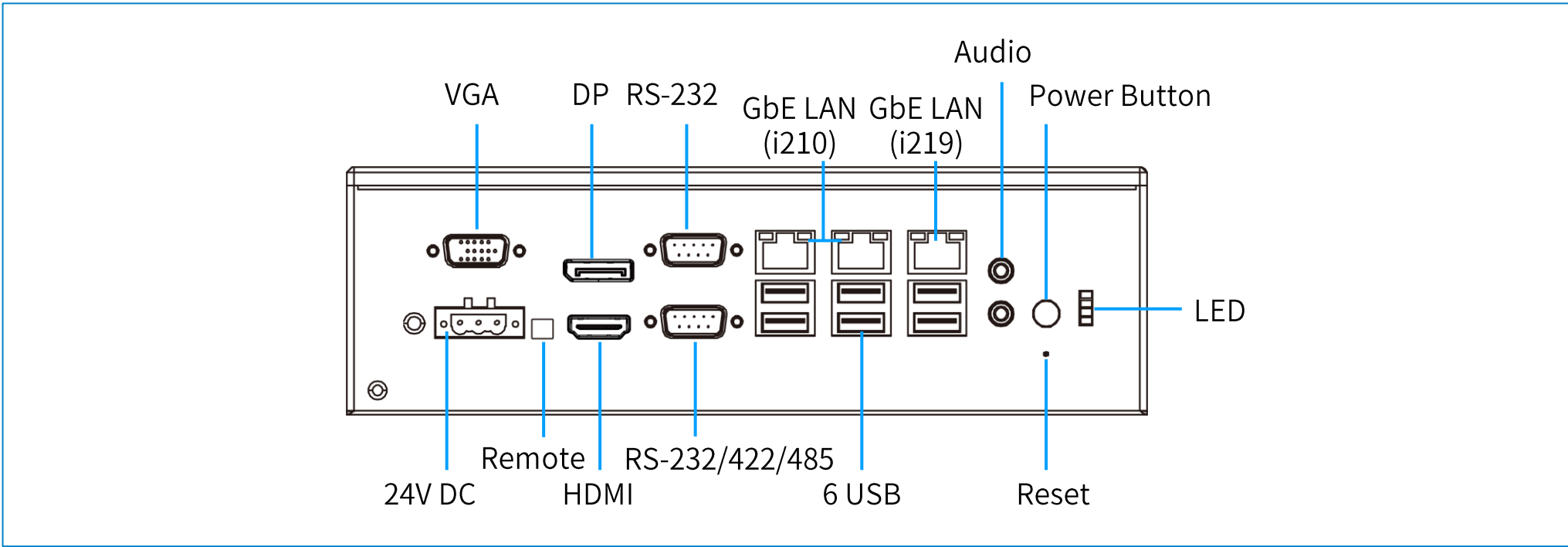
Specifications

Item		Description
Processor System	CPU	11 th Gen Intel® Core™ i3/ i5/ i7 CPU
	TDP	Max. 65W
	Socket	LGA1200
	Chipset	Q470 / H470 / H420E
	BIOS	AMI 256Mbit SPI Flash
Memory	Technology	Dual channel 260-PIN DDR4 SO-DIMM
	Capacity	Max 64GB
Graphics	Controller	Intel UHD Graphics supports DirectX12, OpenGL 4.5 and OpenCL 2.1
	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, resolution up to 4096x2304@60Hz
	HDMI	1 x HDMI1.4, resolution up to 4096 x 2160@30 Hz
	VGA	1 x VGA, resolution up to 1920 x 1200@60Hz
	Ethernet	2 x Intel i210 GbE LAN, 1 x Intel i219 GbE LAN
	Serial Port	COM 1: RS-232/422/485, COM 2: RS-232
	USB 3.0	4 (H420E)/ 6 (Q470/H470)
	USB 2.0	2 (H420E)/ 0 (Q470/H470)
	Audio	1 x Line out, 1 x Mic in
	Remote	1 x Remote
	Power Input Connector	3 PIN Phoenix terminal
LED & Switch	LED	SATA, Memory, User-defined 1, User-defined 2
	Power Button	1 x Power Button
	Reset	1 x Reset Button
Internal Connectors	M.2 E-Key	1 x M.2 2230 support Wi-Fi (Q470/H470: support both CNVI and PCIe protocol; H420E: support PCIe protocol)
	M.2 B-Key	1 x M.2 3052 support 4G/5G
	M.2 B-Key	2 x M.2 2280 SATA3.0 (Q470 / H470 support RAID 0/RAID 1, switchable in BIOS)
	SIM	1 x Nano SIM
Power Supply	Power Input	24V DC (9-36V configuration is optional)
	Power Management	AT/ATX
	Max. consumption	150W
Others	Watchdog	65536 level, 0~65535 sec
	TPM	TPM2.0 (Optional)
Physical Characteristics	Construction	Aluminum alloy
	Size	220 x 226 x 68 mm (L x W x H)
	Weight	3.0 kg
	Installation	Wall-mount
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	EMC	CE, FCC
Operation System	OS	Windows 10/11, centos 8, ubuntu 20.04/22.04/24.04

Dimension



Interfaces



Ordering Information

Model	CPU	TDP	Turbo Frequency	Core	Thread	LAN	COM	USB3.0	USB2.0	DP	HDMI	VGA	Power
E500F-B-5000	i5-11400	Max 65W	4.40 GHz	6	12	3	2	4 or 6	2 or 0	1	1	1	24V DC
E500F-B-7000	i7-11700	Max 65W	4.90 GHz	8	16	3	2	4 or 6	2 or 0	1	1	1	24V DC

Optional Accessories

Part Number	Description
MF0A000000000069	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

Operation System

	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 20.04~24.04

Packing List

Part Number	Description	Quantity
-	E500F-B 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	1