

E521A Series



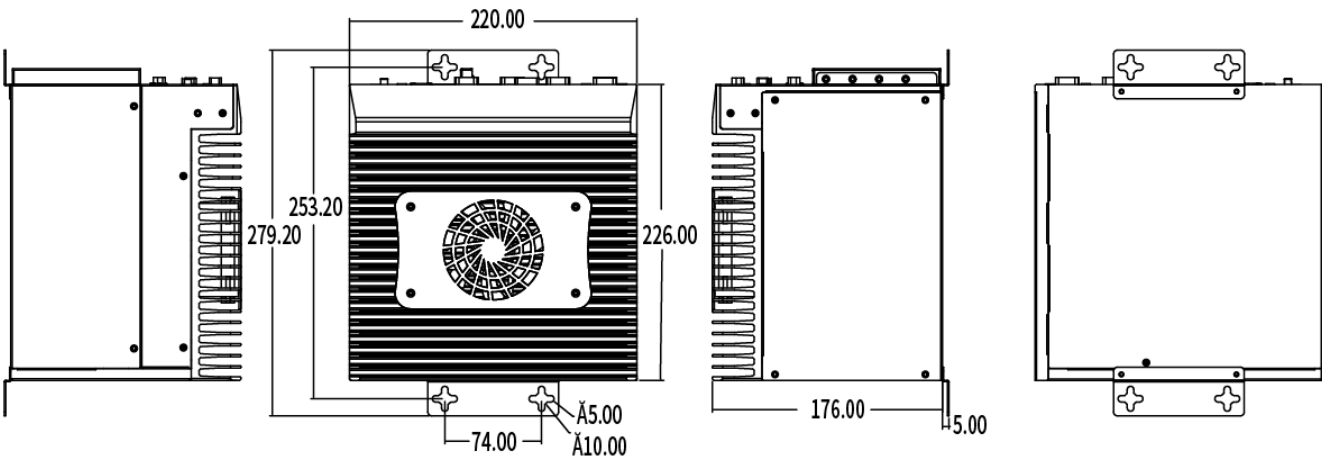
Product Features

- Intel® 10-11th generation Core™ i3/ i5/ i7 CPU
- Dual channel DDR4, Max . 64GB memory
- 3 independent display via 1 DP, 1 HDMI and 1 VGA
- 3 LAN (2 x Intel i210, 1 x Intel i219)
- 4 USB3.0, 4 USB2.0 (H420E) or 6 USB3.0, 2 USB2.0 (H470/Q470)
- 1 RS-232/422/485, 2 RS-232/485, 3 RS-232
- 1 PCIe 3.0 x16, 1 PCIe 3.0 x4 (x2 signal) , 2 PCI
- Support 4G/5G, Wi-Fi module expansion
- DC 24V, UPS module is optional
- CE/FCC Class B, ESD 8KV/15KV
- Modular and cable-free high reliability design
- 220 x 226 x 136 mm (L x W x H), support Wall-mounting installation
- Windows 10/11, centos 8, ubuntu 20.04/22.04

Technical Specifications

E521A Series		
Processor System	CPU	Intel® 10-11 th generation Core™ i3/ i5/ i7 CPU
	Chipset	Q470 / H470 / H420E
	BIOS	AMI 256Mbit SPI Flash
	Socket	LGA1200
	TDP	65W
Memory	Technology	2 x DDR4
	Max . Capacity	64 GB
Graphics	Controller	Intel UHD Graphics supports DirectX12, OpenGL 4.5 and OpenCL 2.1
	Feature	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
Storage	M.2 M-Key	1 x M.2 2280 SATA3.0
	SATA3.0	2 x SATA3.0
External I/O	DP	1 x DP1.4, resolution up to 4096 x 2304@60 Hz
	HDMI	1 x HDMI1.4, resolution up to 4096 x 2160@30 Hz
	VGA	1 x VGA, resolution up to 1920 x 1200@60 Hz
	Ethernet	2 x Intel i210, 1 x Intel i219 GbE LAN
	USB 3.0	4 (H420E)/ 6 (Q470)
	USB 2.0	4 (H420E)/ 2 (Q470)
	Serial Port	COM 1: RS-232/422/485, COM 3~5: RS-232/485, COM 2&6: RS-232
	Audio	1 x Mic-In, 1 x Line-Out
	Power Connector	3 PIN Phoenix terminal
	Remote	1 x Remote
Expansion	PCIe	1 PCIe 3.0 x16, 1 x PCIe 3.0 x4 (x2 signal)
	PCI	2 x PCI
LED & Switch	LED Indicator	SSD, DG(Memory), User-defined 1, User-defined 2
	Power Button	1 x Power Button
	Reset	1 x Reset
Inside 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
	USB 2.0	1 x USB 2.0 Type-A
	SIM	1 x NANO SIM
Power Supply	Power Input	DC 24V
Others	Watchdog	65536 lever, 0~65535 second
	TPM	TPM 2.0(Optional)
Environment	Operating Temperature	0 ~ 50 °C(32~122°F) with airflow 0.7 m/s
	Storage Temperature	-40°C ~ 85°C(-40~185°F)
	Operating Humidity	95% @ 40 °C (Non-condensing)
	Storage Humidity	95% @ 60 °C (Non-condensing)
Physical Characteristics	Dimension	220 x 226 x 176 mm (L x W x H)
	Weight	4.3 kg
	Installation	Wall mount
Certification	EMC	CE, FCC
OS	OS	Windows 10/11, centos 8, ubuntu 20.04/22.04

Product Dimension



Ordering Information

Model	CPU	TDP	Turbo Frequency	Core/Thread	LAN	USB3.0	USB2.0	COM	Expansion slots	Power
E521F-A-3000	i3-10100	65W	4.30 GHz	4/8	3	4 or 6	4 or 2	6	4	24V DC
E521F-A-5000	i5-10400	65W	4.30 GHz	6/12	3	4 or 6	4 or 2	6	4	24V DC
E521F-A-5000	i5-10500	65W	4.50 GHz	6/12	3	4 or 6	4 or 2	6	4	24V DC
E521F-A-7000	i7-10700	65W	4.80 GHz	8/16	3	4 or 6	4 or 2	6	4	24V DC
E521F-B-5000	i5-11400	65W	4.40 GHz	6/12	3	4 or 6	4 or 2	6	4	24V DC
E521F-B-7000	i7-11700	65W	4.90 GHz	8/16	3	4 or 6	4 or 2	6	4	24V DC

Optional Accessories

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

Packing List

Part Number	Description	Quantity
-	E521A Series Embedded Industrial PC	1
MC0A000000000019	Wall-mounting kits (100*37*1mm)	1
KE0A000000000004	Round head screws	4
ZM0A000000000020	Three-plug power cord	1
ZM0A000000000028	Power adaptor with 3 PIN Phoenix terminal (Below i7)	1
ZM0A000000000084	Power adaptor with 3 PIN Phoenix terminal (i7)	1

Product Interfaces

