



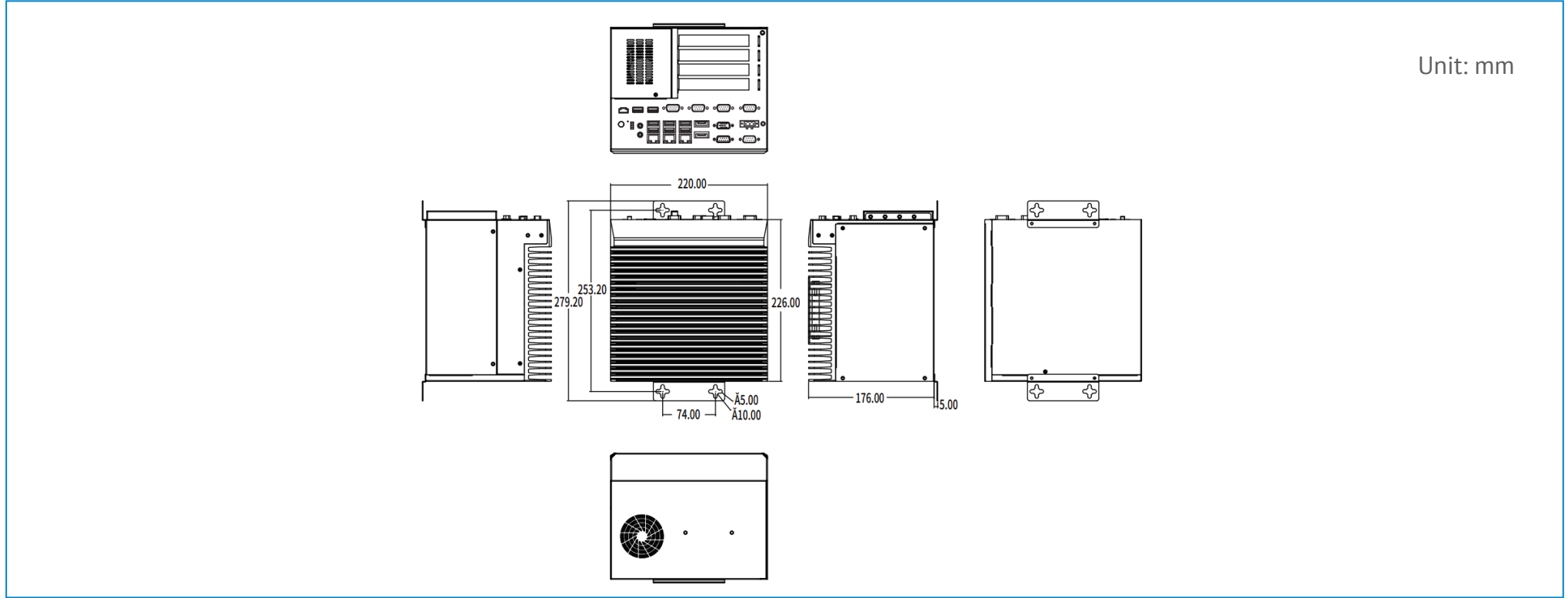
Features

- 6th ~9th generation Intel® Core™ Series CPU
- H110 chipset
- Dual channel DDR4 up to 64GB memory
- 3 display: 2 DP, 1 VGA (Support 2 independent display)
- 3 GbE LAN (2 x Intel i210, 1 x Intel i219)
- 1 RS-232/422/485, 3 RS-232/485, 2 RS-232
- 4 USB 3.0, 4 USB 2.0
- 1 PCIe 3.0 x16, 1 PCIe 2.0 x4 (x2 signal), 2 PCI slots
- Support 4G, Wi-Fi module expansion
- DC 24V (9-36V configuration is optional)
- Optional configuration of external UPS module
- 220 x 226 x 176 mm (L x W x H), support Wall-mounting
- Modular and cable-free design
- CE/FCC Class B, ESD 8KV/15KV
- Windows 10, Linux multiple version OS

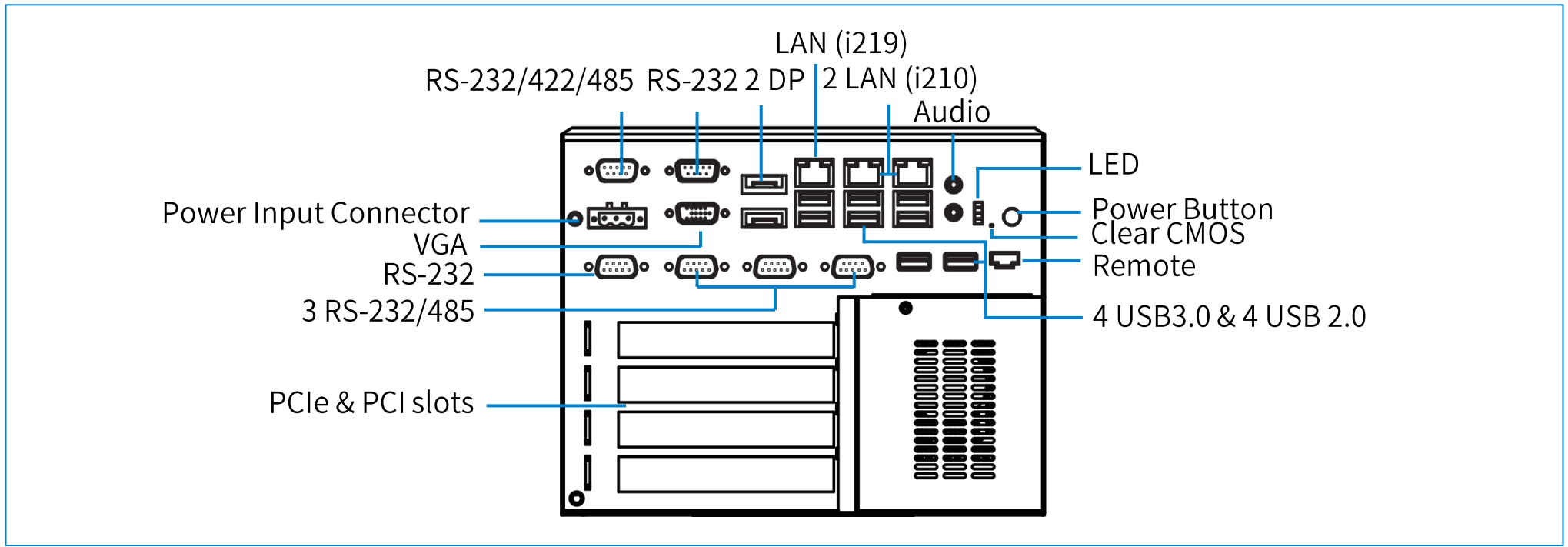
Specifications

Items		Descriptions
Processor System	CPU	6th ~9th generation Intel® Core™ Series CPU
	TDP	Max 65W
	Socket	LGA1151
	Chipset	H110
	BIOS	AMI 64MB UEFI BIOS
Memory	Technology	Dual channel 260-PIN DDR4 SO-DIMM
	Capacity	Max 64GB
External I/O	DP	2 x DP, resolution up to 4096 x 2304@60 Hz
	VGA	1 x VGA, resolution up to 1920 x 1080@60 Hz
	Ethernet	2 x Intel i210 GbE LAN, 1 x Intel i219 GbE LAN
	USB	4 x USB 3.0, 4 x USB 2.0
	Serial Port	COM 1&6: RS-232, COM 2: RS-232/422/485, COM 3~5: RS-232/485
	Audio	1 x Line-out, 1 x Mic-in (Realtek ALC 662)
	Power Input Connector	3 PIN Phoenix terminal
	Remote	1 x Remote
Expansion Slots	PCIe	1 x PCIe 3.0 x16, 1 x PCIe 2.0 x4 (x2 signal)
	PCI	2 x PCI
LED & Switch	LED	Memory, Stand by, SSD, Watchdog
	Power Button	1 x Power Button
	Clear CMOS	1 x Clear CMOS
Internal Connectors	Mini PCIe	1 x full size Mini PCIe, support WLAN/WWAN module
	M.2	1 x M.2 B-Key 2280
	SATA 3.0	3 x SATA 3.0
	USB 2.0	1 x USB 2.0 Type-A
Power Supply	Power Input	24V DC (9-36V configuration is optional)
Others	Watchdog	Interrupt, System Reset/255 levels timer interval, from 1 to 255 sec
Physical Characteristics	Material	Aluminum
	Size	220 x 226 x 176mm (L x W x H)
	Weight	4.3 Kg
	Installation	Wall mounting
Environment	Operating Temperature	0~50 °C (32~122°F) with airflow 0.7 m/s
	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
OS	Operation System	Windows 7 (Only Gen 6th), Windows 10, centos 7/8, ubuntu 18.04~24.04, etc

Dimensions



Interface



Ordering Information

Model	CPU	Max TDP	Turbo Frequency	Core	Thread	LAN	USB3.0	USB2.0	COM	Expansion Slot	Audio	SIM	SATA 3.0	VGA	DP	Power
E521-01	Pentium G4560	54W	3.50GHz	2	4	3	4	4	6	1 x PCIe 3.0 x16 1 x PCIe 2.0 x4, 2 x PCI	2	1	3	1	2	24V DC
E521-02	i5-6400	65W	3.30 GHz	4	4	3	4	4	6	1 x PCIe 3.0 x16 1 x PCIe 2.0 x4, 2 x PCI	2	1	3	1	2	24V DC
E521-03	i7-7700	65W	4.20GHz	4	8	3	4	4	6	1 x PCIe 3.0 x16 1 x PCIe 2.0 x4, 2 x PCI	2	1	3	1	2	24V DC
E521-04	i5-8400	65W	4.00GHz	6	6	3	4	4	6	1 x PCIe 3.0 x16 1 x PCIe 2.0 x4, 2 x PCI	2	1	3	1	2	24V DC
E521-05	i7-8700	65W	4.60GHz	6	12	3	4	4	6	1 x PCIe 3.0 x16 1 x PCIe 2.0 x4, 2 x PCI	2	1	3	1	2	24V DC
E521-06	i3-9100	65W	4.20GHz	4	4	3	4	4	6	1 x PCIe 3.0 x16 1 x PCIe 2.0 x4, 2 x PCI	2	1	3	1	2	24V DC
E521-07	i5-9400	65W	4.10 GHz	6	6	3	4	4	6	1 x PCIe 3.0 x16 1 x PCIe 2.0 x4, 2 x PCI	2	1	3	1	2	24V DC
E521-08	i7-9700	65W	4.70GHz	8	8	3	4	4	6	1 x PCIe 3.0 x16 1 x PCIe 2.0 x4, 2 x PCI	2	1	3	1	2	24V DC

Optional Accessories

Part Number	Description
MF0A000000000014	WiFi+BT Mini PCIE AW-CB161H 802.11 a/b/g/n/ac Wifi5
MF0A000000000036	4G LTE module, M.2 EM05CEFC-128-SGAS

Packing List

Part Number	Description	Quantity
-	E521 Series Embedded PC	1
KE0A000000000004	Screws	4
ZM0A000000000020	3 plug power cord	1
ZM0A000000000058	Power adapter with 3 PIN terminal	1
MC0A000000000019	Wall mounting kits (100*37*1mm)	1

OS Support

	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
Linux	centos 7
	centos 8
	ubuntu 18.04~24.04