JEC-5510

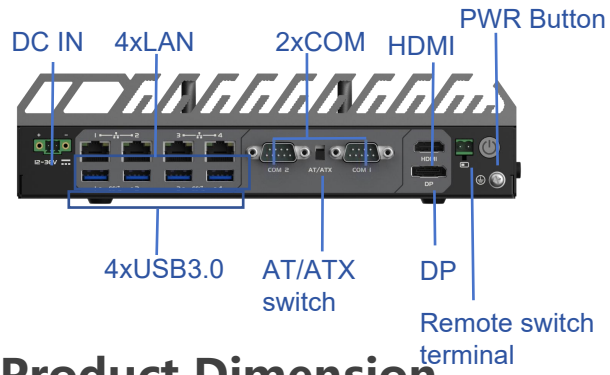
Intel® Alder Lake-U/Raptor Lake-U General-purpose industrial BOX unit

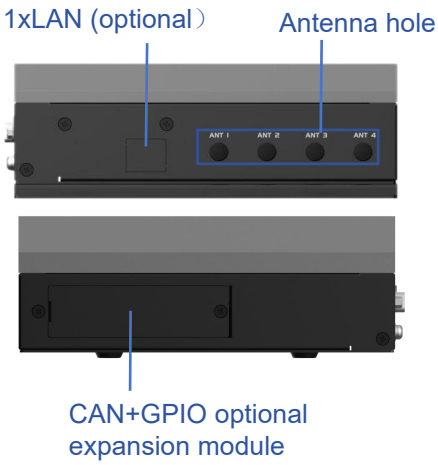


Product Features

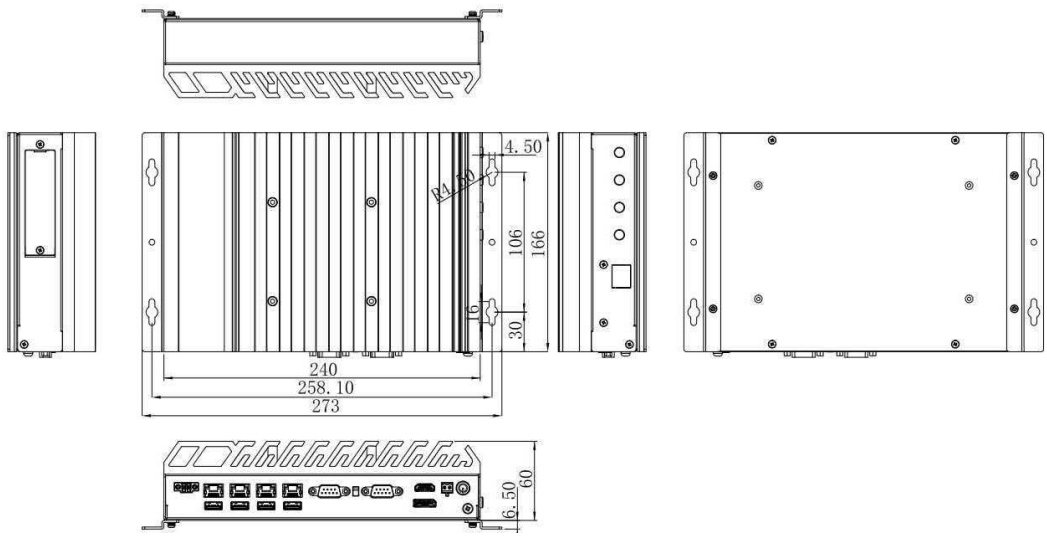
·Based on Intel Alder Lake-U/Raptor Lake-U platform
·1 x SO-DIMM DDR5 memory slots, supporting up to 32GB
·1 x M.2 2230 Interface, expandable Wi-Fi + BT module
·1 x M.2 3042/3052 Interface, expand 4G/5G module
·HDMI + DP Dual display interfaces
·4 x Gigabit Ethernet (default), PoE power supply module optional
·4 x USB 3.0 , 2 x COM
·Optional DIDO/CAN/PoE modules
·DC IN 12-36V

■ Interface Layout





■ Product Dimension



Datasheet

JEC-5510

Syestem	Processor	Intel Alder Lake-U platform，onboard CPU optional i3-1215U/i5-1235U/i7-1255U Intel Raptor Lake-U platform，onboard CPU option i3-1315U/i5-1335U/i7-1355U
	Chipset	Intel® Alder Lake-U SoC / Intel® Raptor Lake-U SoC
	BIOS	AMI UEFI BIOS
	graphics card	i3：Intel UHD Graphics for 12th/13th Gen Intel® Processors i5/i7: Intel Iris Xe Graphics eligible
	Memory	1 x SO-DIMM slot，DDR5-4800 , supports up to 32GB
	OS	Windows 10/Windows 11/Ubuntu
I/O interface	USB port	4x USB3.0
	COM port	2 xRS232/485/422，switch via BIOS
	network port	4x Gigabit RJ45 interface (default) + 1x Gigabit RJ45 interface (optional)
	ATX/AT switch	1 x ATX/ATswitch
	switch	1 x Power switch , 1 x Remote switch
Extension	Extension	1xM.2 Key E 2230, Expanding Wi-Fi + BT； 1 xM.2 Key B 3042/3052, Expanding 4G/5G
Display	Graphics	Intel® UHD Graphics
	Display Interface	1 xHDMI 1.4b Type-A interface , supports a maximum resolution of 3840x2160@30Hz ; 1 xDP 1.2 Interface, supports a maximum resolution of 3840x2160@60Hz
Storage	Storage	7 + 15 Pin SATA 3.0 combo socket; 1 xM.2 Key 2242/2280 , supports SATA/NVME (PCIe x4) adaptive mode.
Audio	Audio chip	Realtek ALC897
	Audio terminals	1 xFP Audio Audio pins, 2*5 Pin, 2.54mm（draw8 Pin）
Ethernet	Network port chip	4 x 1000M RJ45 interfaces (1 * Intel I210AT + 3 * Intel I226-V network cards) , supporting Wake-on-LAN, 4KV surge protection, and optional PoE support ; 1 1000M RJ45 interface (optional)
Power supply	Input voltage	DC IN 12-36V
	Power interface	2 Pin Phoenix terminals with reverse connection / short circuit / undervoltage / overvoltage and overcurrent protection
physical parameters	size	240mm(L)×166mm(W)×60mm(H)
	weight	2.6KG
	Installation	Desktop
Work environment	Operating Temp	-20℃~60℃
	Storage Temp	-40℃~85℃
	humidity	when the operating humidity is 10%-90% ; no condensation occurs when the storage humidity is 5%-95%.
	Shock	With SSD: 15G, IEC 60068-2-27, half sine, 11ms duration
	Vibration	With SSD:2Grms, IEC 60068-2-64, random，5~500Hz，1 hr/axis

Ordering Information

JEC-5510

Model	processor	Display	DIMM	LAN	USB3.0	COM	2.5” SSD	M.2
JEC-5510-i3	Intel i3-1215U	2	1	4(up to5)	4	2	1	3
JEC-5510-i5	Intel i5-1235U	2	1	4(up to5)	4	2	1	3
JEC-5510-i7	Intel i7-1255U	2	1	4(up to5)	4	2	1	3

■ Packing List

Part Number	describe	quantity
JEC- 5510	JEC-5510 Barrier System	1
300600016156	Power adapter , 90W, AC100~240V, 19V, 4.74A	1
301800000605	Power cord , 1.5m	1
NA	Screw package	1
301700021856	Remote switch terminal male connector	1
302300020586	Desktop mounting bracket	2

■ Optional accessories

Module card	Part Number	describe	quantity
CAN+GPIO **module card**	200200008625	2xCAN+4DI4DO optocoupler isolation adapter card	1
	302300022884	CAN+ GPIO_Baffle	1
	302300022903	Stud	2
	302300022886	Stud	1
	302300001791	screw	3
POE **module card**	200200007452	4POE power supply adapter card	1
	302300022885	Stud	4
	302300001791	screw	4
2COM **module**	301800022453	2COM line	1
	302300022883	2COM baffle	1