

SB-5612

Fanless Embedded Box PC with 13th/12th Alder Lake-U Intel® Core™ i5 Processor



Applications

- Edge AI Computing
- Factory Automation
- Transportation Management
- Automation Machine

Features

- Intel® Core™ i5-1235U / i5-1335U Processor
- Dual Channel DDR4 3200MHz, up to 64GB
- Supports Optional 16 x Isolated DI & 16 x Isolated DO
- Supports 1 x Removable 2.5" SATA SSD
- Supports 1 x Flexible I/O windows for Scalability
- -20°C ~ 60°C Wide Operating Temperature

Ordering Information

Part No.	Description
SB-5612-1A1	Intel® Core™ i5-1235U CPU, 2 x 2.5GbE, 2 x HDMI, 4 x RS-232/422/485, 4 x USB3.2 Gen 2, 2 x USB2.0, 1 x GPIO, Line Out, Mic In, DC 9~36 VDC
SB-5612-1A2	Intel® Core™ i5-1235U CPU, 2 x 2.5GbE, 2 x HDMI, 4 x RS-232/422/485, 4 x USB3.2 Gen 2, 2 x USB2.0, 32-bit DIO, 1 x GPIO, Line Out, Mic In, DC 9~36 VDC

Packing List

Description

1 x SB-5612

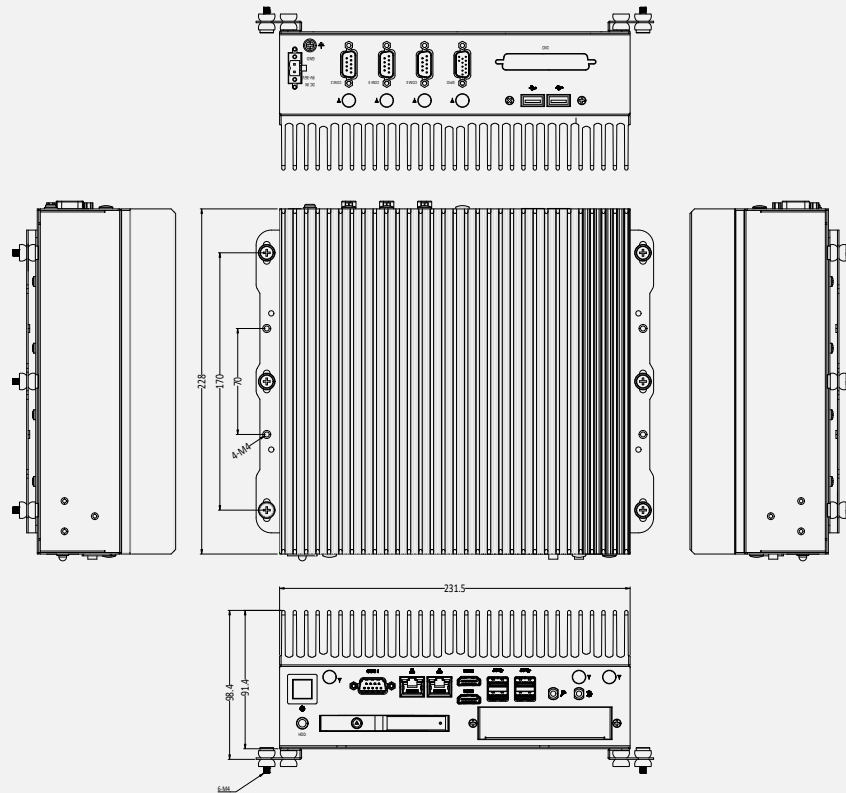
Optional Items

Part No.	Description
EA-PS-80W12VTB2xx-0111	Adaptor 80W/12V/6.7A_-30~70°C_TB2
27-x301010005-CA	Power Cord, 3-pin EU Type, 180 cm
27-x301000003-CA	Power Cord, 3-pin US Type, 180 cm
AWD-4G003	4G(LTE) EG25-G + 2 Antennas, Full Size (for Global)
AWD-WF009	Wi-Fi 802.11 a/b/g/n/ac/BT5.0 (2T2R) +2 Antennas (Dual Band), M.2 2230 Type

Specifications

Model		SB-5612-1A1	SB-5612-1A2
Processor System	CPU	Intel® Core™ i5-1235U Processor	
	BIOS	UEFI	
	TPM	fTPM	
Memory	Technology	Dual Channel DDR4 3200MHz	
	Max. Capacity	64GB	
	Type	2 x 260-pin SO-DIMM	
Display	Graphics Engine	Intel® Iris® Xe Graphics	
	Multiple Display	2	
	HDMI	2 x HDMI, Max Resolution 4096 x 2160	
I/O Interface	USB	4 x USB3.2 Gen2 2 x USB2.0	
	Serial Port	4 x RS-232/422/485	
	Ethernet	2 x 2.5GbE (Intel® I226V)	
	Audio	1 x Line-out, 1 x Mic-in	
	DIO	N/A	16 x Isolated DI & 16 x Isolated DO
	GPIO	4 x Input, 4 x Output (D-SUB 15-pin)	
	Antenna Hole	7	
	Flexible I/O Window	1	
Storage	2.5" SSD	1 x Removable 2.5" SATA SSD	
	M.2	1 x M.2 M-Key 2280 (PCIe x4 and SATA III)	
Expansion	Mini-PCIe	1 x Full-Size Mini-PCIe (PCIe, USB 2.0 and SIM)	
	M.2	1 x M.2 E-Key 2230 (PCIe, USB)	
	SIM Holder	1 x Nano-SIM Holder	
Power	Power Mode	AT/ATX	
	Power Supply Voltage	9-36V DC Input	
	Power Connector Type	1 x 2-pin Terminal Block Connector	
Mounting	Type	Wall Mount	
Environment	Operating Temperature	-20 ~60°C	
	Storage Temperature	-40 ~ 80°C	
	Humidity	0% ~ 90% (non-condensing)	
General	Vibration	IEC 60068-2-64: 5Grms, random, 5~500 Hz, 1hr/axis	
	Shock	IEC 60068-2-27: 50G, half-sine, 11ms duration	
	Certification	CE/FCC Class A	
	Thermal Dissipation	Fanless system	
	Material	Aluminum & SECC	
	Dimensions (W x D x H)	231.5x228x89.5 mm	
	Net Weight	5.0kg	
	Operating System	Windows 10 IoT, Windwos 11 (IoT/Professional), Linux	

Dimensions SB-5612-1A1



Viewing

