

SB-5516

Intel® Core™ Ultra 200S Series Fanless Embedded Box PC



Applications

- Edge AI Platform
- Machine Vision Application
- Defect Detection in Manufacturing
- Motion Control in AGV/AMR
- Real-time Data Analytics

Features

- Supports Intel® Core™ Ultra 200S series processors (Series 2)
- Dual Channel DDR5 5600/6400MHz, up to 128GB
- Integrated Neural Processing Unit (NPU)
- Supports NVMe SSD for high-speed OS read/write operations
- Supports 2 x Removable 2.5" SATA SSD
- -20°C ~ 60°C Wide Operating Temperature

Ordering Information

Part No.	Description
SB-5516-1A1	Intel® Core™ Ultra LGA1851 CPU socket, H610 Chipset, 2 x GbE, 1 x HDMI, 1 x DP, 1 x RS-232/422/485, 1 x RS-232, 4 x USB3.2, 1 x GPIO, 1 x Line-Out, 1 x Mic-In, 1 x Flexible I/O window, 19~24VDC
SB-5516-1A2	Intel® Core™ Ultra LGA1851 CPU socket, H610 Chipset, 2 x GbE, 1 x HDMI, 1 x DP, 1 x RS-232/422/485, 1 x RS-232, 4 x USB3.2, 1 x GPIO, 1 x Isolated 32-bit DIO, 1 x Line-Out, 1 x Mic-In, 1 x Flexible I/O window, 19~24VDC

Packing List

Description
1 x SB-5516-1A1
1 x SB-5516-1A2

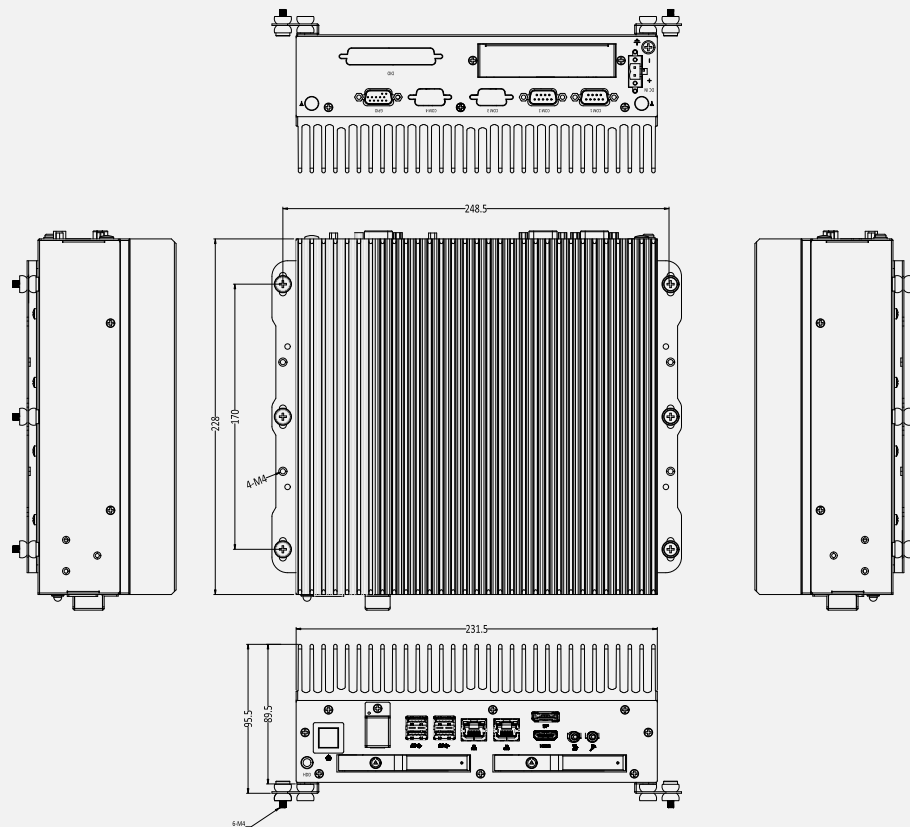
Optional Items

Part No.	Description
EA-PS-120W24VTB2x-0111	120W/24V/5A_ -30~70°C_TB2_GST120A24-AV
27-x301010005-CA	Power Cord, 3-pin EU Type, 180 cm
27-x301000003-CA	Power Cord, 3-pin US Type, 180 cm
Ultra 9 285T	Intel® Core™ Ultra 9 285T Arrow Lake_36MB Cache, up to 5.4GHz_35W
Ultra 7 265T	Intel® Core™ Ultra 7 265T Arrow Lake_30MB Cache, up to 5.3GHz_35W
Ultra 5 245T	Intel® Core™ Ultra 7 245T Arrow Lake_24MB Cache, up to 5.1GHz_35W
AWD-4G005	4G (LTE) EM05-G + 2 Antennas, M.2 (for Global)
AWD-WF009	Wi-Fi 802.11 a/b/g/n/ac/BT5.0 (2T2R) +2 Antennas (Dual Band), M.2 2230 Type

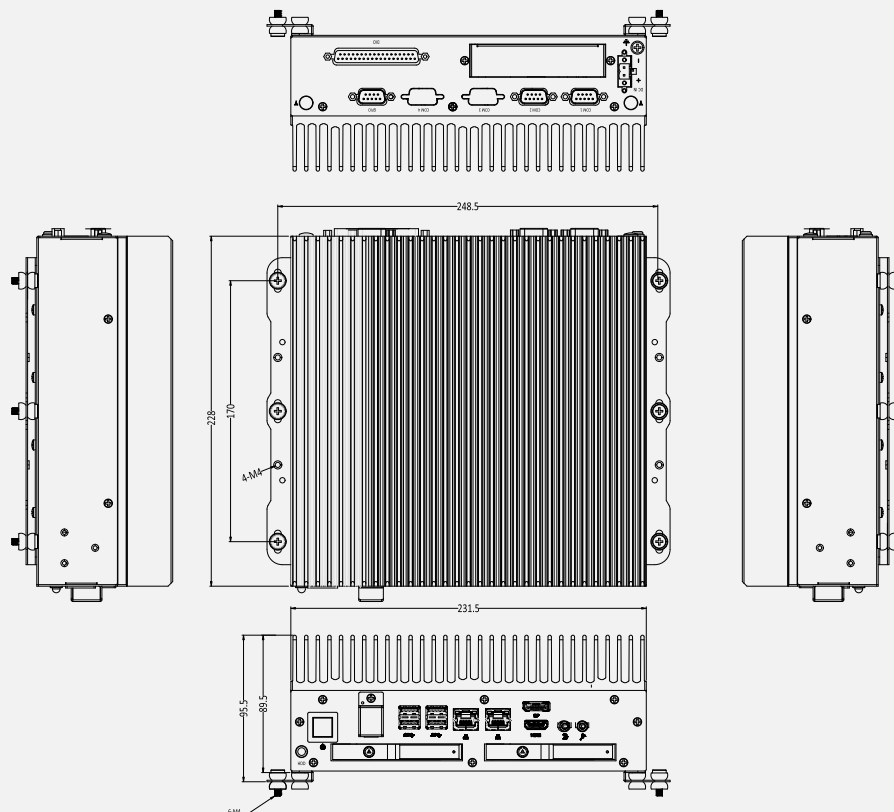
Specifications

Model		SB-5516-1A1	SB-5516-1A2
Processor System	CPU	Intel® Core™ Ultra processors (Series 2) 35W LGA 1851 Processors	
	System Chipset	Intel® H810	
	BIOS	UEFI	
	TPM	TPM 2.0 onboard IC	
Memory	Technology	Dual Channel DDR5 5600/6400MHz	
	Max. Capacity	128GB	
	Socket Type	2 x 262-pin SO-DIMM	
Display	Graphics Engine	Intel® UHD Graphics	
	Multiple Display	2	
	HDMI	1 x HDMI 2.1 port, maximum resolution up to 7680 x 4320 @60Hz	
	DisplayPort	1 x DP, maximum resolution up to 4096 x 2160 @60Hz	
I/O Interface	USB	2 x USB3.2 Gen2x1 2 x USB3.2 Gen1	
	Serial Port	1 x RS-232 1 x RS-232/422/485 & RI/5V/12V	
	Ethernet	2 x GbE LAN Ports (Realtek RTL8111H)	
	Audio	1 x Line-out, 1 x Mic-in (Realtek ALC897)	
	GPIO	4 x Input, 4 x Output (D-SUB 9-pin)	
	DIO	N/A	16 x Isolated DI & 16 x Isolated DO
	Antenna Hole	2	
	Flexible I/O Window	1	
Storage	2.5" HDD / SSD	2 x Removable 2.5" SATA SSD	
	M.2	1 x M.2 M-Key 2280 (PCIe Gen4 x4 and SATA 6Gb/s)	
	RAID	Not support	
Expansion	M.2	1 x M.2 M-Key 2280 (PCIe Gen4 x4 and SATA 6Gb/s) 1 x M.2 E-Key 2230 (PCIe x1, USB 2.0)	
Power	Power Mode	AT / ATX	
	Power Supply Voltage	12V / 19~24V 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	5% ~ 90% (Non-condensing)	
	Vibration	IEC 60068-2-64: 5Grms, random, 5~500 Hz, 1hr/axis	
	Shock	IEC 60068-2-27: 50G, half-sine, 11ms duration	
General	Certification	CE/FCC Class A	
	Thermal Dissipation	Fanless System	
	Material	Aluminum & SECC	
	Dimensions (W x D x H)	231.5 x 228 x 89.5mm	
	Net Weight	5.0kg	
	Operating System	Windows 10 IoT, Windows 11 (IoT/Professional), Linux	

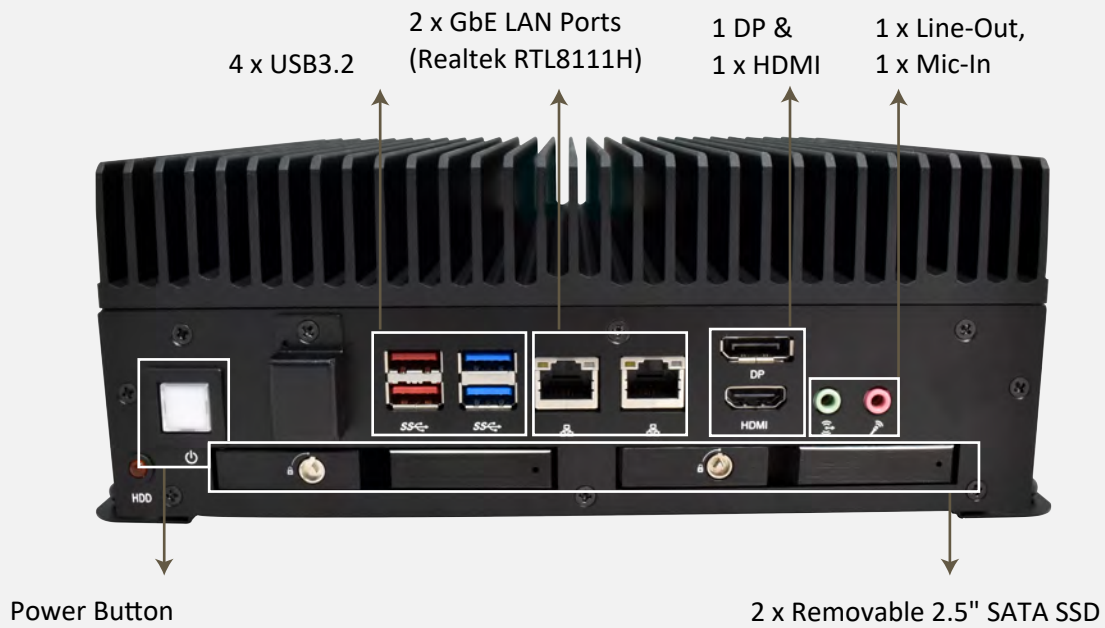
Dimensions-1A1



Dimensions-1A2



Viewing



Viewing

