SB-5825B

Full System IP66 Waterproof Box PC with Intel® Core™ Ultra 5 Processor 225U



Applications

- Mining / Construction Equipment
- Agriculture / Smart Farming
- Smart Transportation / Traffic Systems
- Food & Beverage Manufacturing

Features

- Intel® Core™ Ultra 5 Processor 225U
- Dual Channel DDR5 5600/6400MHz, Max to 96GB
- IP66 Rated Waterproof Computer
- M12 Connectors Ensure Waterproof Industrial Solution
- Supports 2 x HDMI & 1 x USB3.2 via IP67 Connectors
- Supports 4 x DI & 4 x DO via M12 Connector
- Optional CAN Bus via M12 Connector

Ordering Information

Part No.	Description
SB-5825B	Intel® Core™ Ultra 5 Processor 225U, IP67 Connector (2 x HDMI, 1 x USB3.2), M12 Connector (2 x 2.5GbE LAN, 1 x RS-232 & RS-422/485 (x2), 1 x USB2.0 (x2), 1 x GPIO, 9~36 VDC)

Packing List

Description
1 x SB-5825B

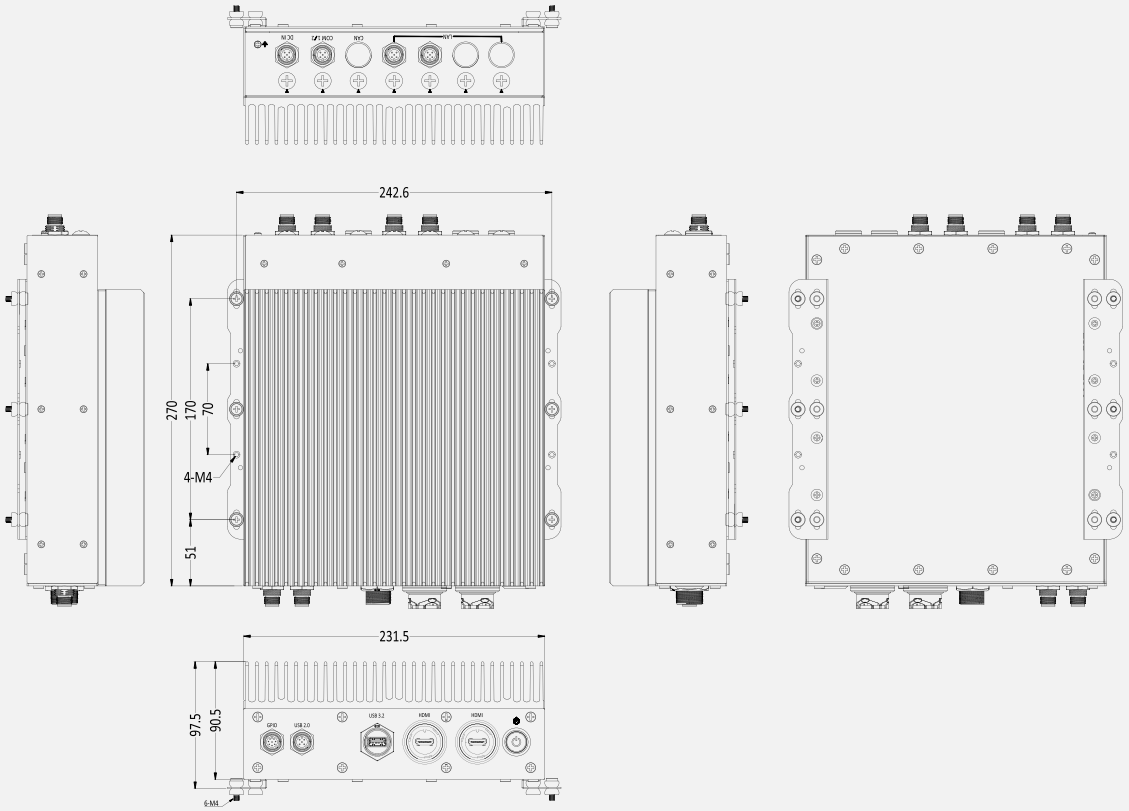
Optional Items

Part No.	Description
EA-PS-90W12VM12xx-0010	Adapter AC/DC 12V 7.5A 90W with M12 Connector (EU)
EA-PS-90W12VM12xx-0110	Adapter AC/DC 12V 7.5A 90W with M12 Connector (US)
AKT-HDMI2IP67	IP67 Connector to HDMI Cable, 2m
AKT-USB2M12	M12 Connector to 2-port USB2.0 Cable, 2m
AKT-2COM2M12	M12 Connector to 2-port DB9 Cable, 2m
AKT-LAN2M12	M12 Connector to LAN Cable, 2m
AWD-WF010	Wi-Fi 802.11 a/b/g/n/ac/BT5.0 (2T2R) + 2 IP66 Antennas (Dual Band), M.2 2230
AWD-4G003	4G(LTE) EG25-G + 2 Antennas, Full Size (for Global)

Specifications

Model		SB-5825B
Processor System	CPU	Intel® Core™ Ultra 5 onboard Processor 225U
	BIOS	UEFI
	TPM	Onboard TPM 2.0
Memory	Technology	Dual Channel DDR5 5600/6400MHz
	Max. Capacity	96GB
	Type	2 x 262-pin SO-DIMM
Display	Graphics Engine	Intel® Graphics
	Multiple Display	2
	HDMI	2 x HDMI, Max Resolution 7680 x 4320 (IP67 Connector)
I/O Interface	USB	1 x USB3.2 Gen2 (IP67 Connector) 2 x USB2.0 (from 1 x M12 Connector)
	Serial Port	1 x isolated RS-422/485 (COM1) 1 x isolated RS-232 (COM2) (from 1 x M12 Connector)
	Ethernet	2 x 2.5GbE (Intel® I226V & I226LM) (M12 Connector)
	CAN Bus	1 x Optional isolated CAN2.0B (M12 Connector)
	GPIO	4 x DI and 4 x DO (M12 Connector)
	Antenna Hole	7
Storage	2.5" SSD	1 x 2.5" SATA SSD
	M.2	1 x M.2 M-Key 2280 (PCIe Gen4 x4 and SATA III)
	RAID	Intel® SATA RAID 0/1
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, CNVi)
	SIM Holder	1 x Optional Nano-SIM Holder (IP67 Connector)
Power	Power Mode	AT/ATX
	Power Supply Voltage	9-36V DC Input
	Power Connector Type	M12 Connector
Mounting	Type	Wall Mount
Environment	Operating Temperature	-20 ~60°C
	Storage Temperature	-30 ~ 70°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)	231.5x270x90.5 mm
	Net Weight	5.05kg
	Operating System	Windows 10 IoT, Windwos 11 (IoT/Professional), Linux

Dimensions
SB-5825B



Viewing



