

SB-244-1N305

Industrial Fanless Rugged Controller w/ Intel® Alder Lake-N Core i3 Processor N-series



Features

- Intel® Alder Lake-N Core i3-N305 (8 Cores, Up to 3.8GHz)
- 1 x DDR4 3200MHz SO-DIMM Slot, up to 16GB
- Support DP/HDMI display
- Support 4 LAN ports
- Support Wide DC Input 10-36V
- Support M.2 SSD, mSATA, Mini-PCIe, M.2 3052 5G



HDMI

Over-voltage
Protection

USB 3.2



-20~60°C

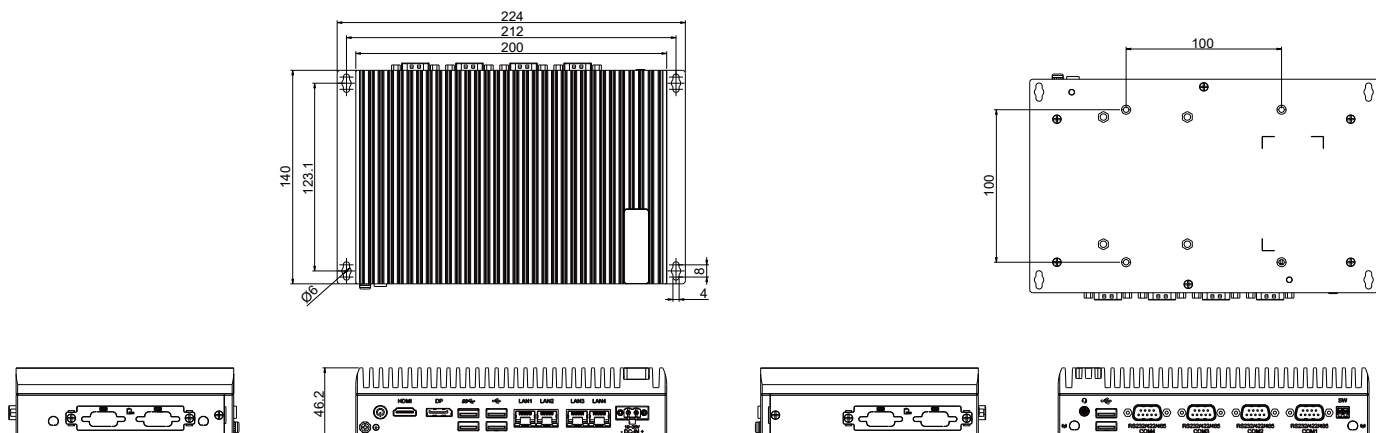
Reversed
Power Insertion
Protection

System	
CPU	Intel® Alder Lake-N Core i3-N305 processor (8 Cores, Up to 3.8GHz)
Memory	1 x DDR4 SO-DIMM sockets, supporting 3200 MHz SDRAM up to 16GB
Chipset	Integrated in CPU
Graphics	Integrated Intel® UHD Graphics
LAN chipset	1 x Intel® i210-AT GbE controller 3 x Intel® i226-V 2.5GbE controllers
Watchdog Timer	1~255 levels reset
Storage	
Device	1 x M.2 2242 (SATA 3.0) 1 x mSATA
Audio	
Type	1 x Audio(Line-out & Mic-in) (Chipset ALC888S/897)
Power System	
Power Input	10-36V DC, 2-pin phoenix connector
OS	
Windows 10/11, Ubuntu 22.04	
Qualification	
Certification	CE, FCC
External I/O	
Serial Ports	4 x RS232/422/485(default as RS-232) with auto flow control
USB Ports	2 x USB3.2 4 x USB2.0
LANs	4 x RJ45
Video Ports	1 x HDMI (Max Resolution: 4096x2160@60Hz) 1 x DP (Max Resolution: 4096x2160@60Hz)

Power Button	1 x Power button w/ LED
Remote On/Off	1 x SW
Internal I/O	
Expansion Slot	1 x full-size mPCIe 1x M.2 B-key 3052 cellular module (USB Signals)
SIM Card	1 x SIM Card socket for 3G/4G module 1 x SIM Card socket for 5G module
COM Port	2 x RS232 by Pin head
GPIO	1 x 8bit programmable GPIO pin header (3.3V / 5V Jumper Voltage adjustable)
Mechanical	
Chassis	Aluminum Alloy
Mounting	Desktop, Wall-mount, Din-Rail (optional)
Dimension (W x H x D)	224 x 140 x 46.2 mm
Weight	1.6 kg
Environmental	
Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	5% ~ 95% @ 40°C (non-condensing)
Vibration	5~500Hz, 2Grms operation
Shock	Operation: 10G@11ms Non-operation: 30G@11ms

SB-244-1N305

Dimension



Unit: mm

Ordering Information

SB-244-1N305	Barebone Fanless System Intel Processor Alder Lake-N Core i3-N305, 4xLAN, 4xCOM(up to 6), 6xUSB, 1xHDMI, 1xDP, DC10-36V power input
SB-244-1N305-R8S128	Fanless System with 8GB RAM & 128GB SSD, Intel Processor Alder Lake-N Core i3-N305, 4xLAN, 4xCOM(up to 6), 6xUSB, 1xHDMI, 1xDP, DC10-36V power input
PAC-120W-FSP-SPA R1.0	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ USA POWER CORD
PAC-120W-FSP-SPA R1.1	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ EU POWER CORD
PAC-120W-FSP-SPA R1.2	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ UK POWER CORD
PAC-120W-FSP-SPA R1.3	AC/DC Adapter Kit (w/ UKCA), 19V, 120W, 2 WIRE w/ IN POWER CORD
CEA-DINRAIL-25	DIN-Rail Kit
CEA-R111-VESA-MOUNT	VESA BRACKET w/ DIN-Rail screw hole, SECC, Gray Paint, 224*130*10.5mm, DIN-Rail mount (CEA-R111-VESA-MOUNT + CEA-DINRAIL-25) for SB-244-TGLU,SB-244-1NXXX