



SB-244-1N305

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



Features

- Intel® Alder Lake-N Core i3-N305 Processor (8 Cores, Up to 3.8GHz)
- 1 x SDRAM DDR4 3200 MHz (max. 16G)
- Support 3 x 2.5GbE LAN ports
- Support DP/HDMI display
- Support M.2 SSD, mSATA, MiniPCIE Wifi, MiniPCIE, 3052 5G



HDMI



Over-voltage Protection



USB 3.2



-20~60°C



Wide Voltage Range



Reversed Power Insertion Protection

System

CPU	Intel® Alder Lake-N Core™ i3-N305 Processor (8 Cores, Up to 3.8GHz)
Memory	1 x SDRAM DDR4 3200 MHz SO-DIMM slot (Max. 16G)
Graphics	Intel® UHD Graphics
LAN chipset	1 x Intel I210AT GbE controller 3 x I226-V 2.5GbE controllers
Watchdog Timer	Programmable 255 levels timer interval, from 1~255 sec/min

Storage

Device	1 x M.2 2242 (SATA 3.0) 1 x SATA 3.1(2.5" drive bay)
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Audio

Type	1 x Audio(Line-out & Mic-in) (Chipset 888S/897)
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Power System

Power Input	12-36V DC, 2-pin phoenix connector
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OS

Windows 10/11, Ubuntu 22.04	
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Qualification

Certification	CE, FCC
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External I/O

Serial Ports	4 x RS232/422/485(default RS-232) with auto flow control
USB Ports	2 x USB3.2 Gen. 2 4 x USB2.0
LAN	4 x RJ45
Video Ports	1 x HDMI, up to 4Kx2Kx24bpp@24Hz 1 x DP, up to 4096x2304x36bpp@60Hz

Internal I/O

Expansion Slot	1 x mPCIe (PCIe/ USB2.0 signal supported) 1 x M.2 3052 socket for 5G module (USB3.0 single supported)
SIM Card	1 x SIM Card socket for 3G/4G module 1 x SIM Card socket for 5G module
USB Port	2 x USB2.0 by Pinhead
COM Port	2 x RS232 by Pinhead
GPIO	1 x 8bit programmable GPIO pin header (3.3V / 5V Jump adjustable)

Mechanical

Button	1 x Power button (with LED)
Remote	1 x SW
Chassis	Aluminum Alloy
Mounting	Desk-Mount, Wall-Mount, VESA-Mount (75 x 75mm, 100 x 100mm optional)
Dimension (W x H x D)	224 x 140 x 46.2 mm
Weight (Net)	1.6kg

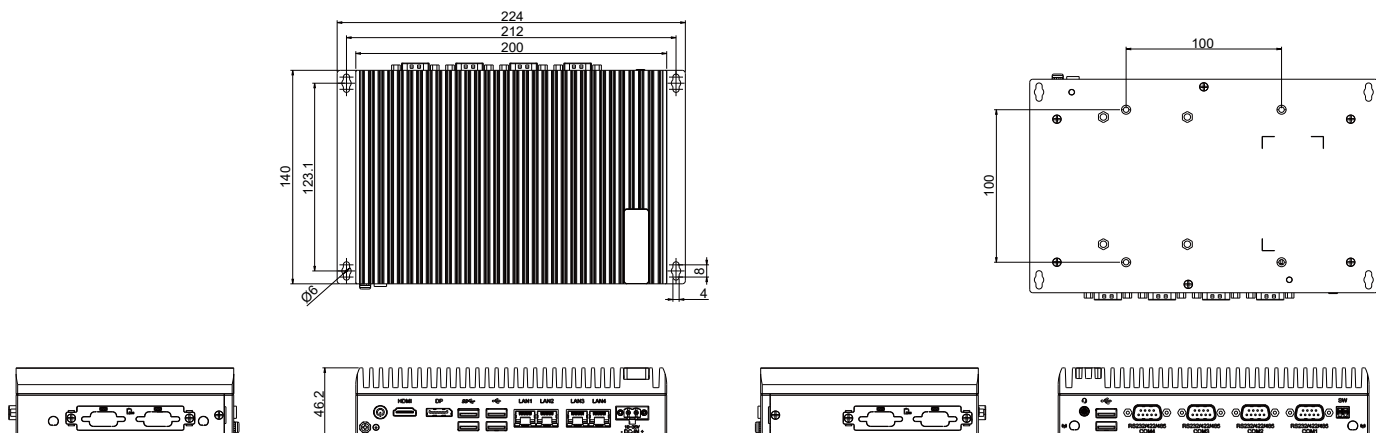
Environmental

Operating Temp.	-20 ~ 60°C
Storage Temp.	-40 ~ 85°C
Operating Humidity	5% ~ 95% (non-condensing)
Vibration	5~500Hz, 2Grms operation
Shock	Operation: 10G@11ms Non-operation: 30G@11ms

*CTOS means Configure-to-Order Service.

SB-244-1N305

Dimensions



Unit: mm

Ordering Information

SB-244-1N305	Barebone Fanless System, Intel Processor Core™ i3-N305, 4xLAN, 4xCOM(up to 6), 6xUSB, 1xHDMI, 1xDP, DC12-36V power input
SB-244-1N305-R4S128	Fanless System with 4GB RAM & 128GB SSD, Intel Processor Core™ i3-N305, 4xLAN, 4xCOM(up to 6), 6xUSB, 1xHDMI, 1xDP, DC12-36V power input

Optional Accessories

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 POW-ER 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
2T71A7Y00-JTW-G	VESA BRACKET, SECC, Gray Paint, 165*115*10.5mm for SB-142-2J64, SB-244-11135G7, SB-244-1N305, SB-244-1N97