

SB-244-1N97

Industrial Fanless Rugged Controller w/ Intel® Alder Lake N Series Processor



Features

- Intel® Processor N97(Up to 3.6GHz)
- 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® Processor N97 (6M Cache, Up to 3.6GHz)
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
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Audio

Type	1 x Audio (Line-out & Mic-in) (Chipset ALC888S/897)
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Power System

Power Input	10-36V DC, 2-pin phoenix connector
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OS

Windows 10/11, Ubuntu 22.04

Qualification

Certification	CE, FCC
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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
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Remote On/Off	1 x SW
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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

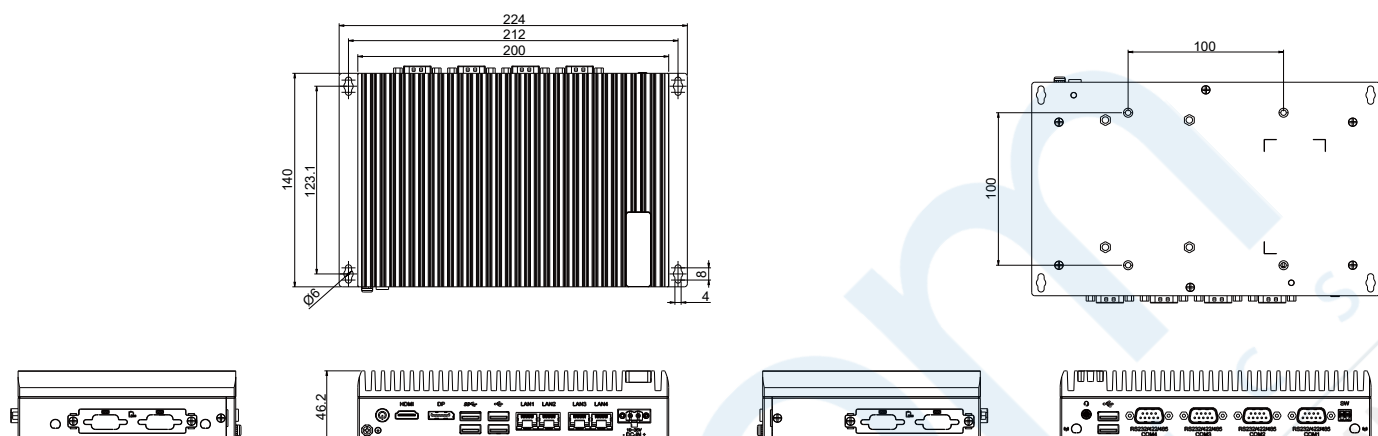
Environmental

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

All specifications are subject to change without notice.

SB-244-1N97

Dimension



Unit: mm

Ordering Information

SB-244-1N97	Barebone Fanless System Intel Processor Alder Lake-N N97, 4xLAN, 4xCOM(up to 6), 6xUSB, 1xHDMI, 1xDP, DC10-36V power input	
SB-244-1N97-R8S128	Fanless System with 8GB RAM & 128GB SSD, Intel Processor Alder Lake-N N97, 4xLAN, 4xCOM(up to 6), 6xUSB, 1xHDMI, 1xDP, DC10-36V power input	
PAC-60W-FSP-SPA R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ USA POWER CORD	
PAC-60W-FSP-SPA R1.1	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ EU POWER CORD	
PAC-60W-FSP-SPA R1.2	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ UK POWER CORD	
PAC-60W-FSP-SPA R1.3	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 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	