

BIS-5121-1U

General Purpose(Storage) Server

AEWIN Technologies Co., Ltd.

1U Rackmount Single 3rd Gen Intel® Xeon® Scalable Processor (Ice Lake-SP/ Whitley platform) Storage Server, supporting 8x DDR4 (up to 3200MHz), 4x 3.5" Hot-Swap HDD, 2x PCIe Gen4 slots, 2x 2.5" SSD (optional), 1x 1GbE IPMI, 2x USB 3.0/2.0, 2x 10GbE, 1x VGA, 1x M.2 (optional)



Features

- Support Single 3rd Gen Intel Xeon Scalable Processor (Ice Lake-SP), LGA4189
- 8x DDR4 RDIMM/LRDIMM memory, up to 3200 MHz
Support Intel QAT (by SKU)
- 1x 1GbE RJ45 IPMI port, 2x 10GbE RJ45 ports, 1x FHFL PCIe Gen4 slot, 1x FHH L PCIe Gen4 slot
- 4x 3.5" SATA, 1x M.2 M Key
- Optional Intel PFR/AEWIN TSB V2 module

Description

BIS-5121-1U is a 1U 4Bays Storage Server System with single 3rd Gen Intel® Xeon® Scalable processor (Ice Lake-SP/ Whitley platform). Refreshed CPU microarchitecture provides higher performance and 8 DIMMs (1DPC) to support high memory bandwidth & capacity. In addition to 4x 3.5" hot-swap storage bays, BIS-5121-1U also support 2x internal SSD or optional M.2. With total 64 lanes PCIe 4.0 (16GT/s) per CPU, BIS-5121 provides flexible and scalable I/O scalability including 2x PCIe Gen4 slots.

Specifications

Processor System

CPU	Single 3rd Gen Intel® Xeon® Scalable Processor (Ice Lake-SP/ Whitley platform)
Chipset	Intel® C621A/C627A
System Bus	UPI Up to 3 links per CPU (11.2 GT/s)
BIOS	AMI 64Mb SPI BIOS

Memory

Technology	Total 8 DIMMs (8x memory channels, 1x DIMM per channel) --DDR4 RDIMM up to 3200 MHz, 256GB per DIMM
Capacity	RDIMM up to 3TB

Expansion

Onboard Expansion Slots	1x FHFL PCIe Gen4 x16 slot 1x FHH L PCIe Gen4 x8 slot
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I/O

USB	2x USB 3.0 (Rear I/O) 2x USB 3.0 (MB reserved PIN header) 4x USB 2.0 (MB reserved PIN header)
Serial	2x COM Port pin header

Ethernet

GbE Ethernet	2x RJ45 10 GbE ports, 1x RJ45 1GbE IPMI port
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Storage

SATA	4x 3.5" Hot-swap HDD
M.2/SATA	Maximum HSIO x2 for boot drive: - 2x 2.5" SSD or - 1x PCIe x2 M.2 (2280 M-key) or - 1x SATA M.2 (2280 M-key) + 1x 2.5" SSD or - 1x PCIe x1 M.2 (2280 M-key) + 1x 2.5" SSD through multiplexer

Power Supply

Watt	Single Power Supply 550W
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Mechanical and Environment

Form Factor	1U Rackmount Storage Server
LED	1x Power Button/LED 1x ID Button/LED 1x Reset Button 1x System error LED 1x IPMI LAN LED
Dimension (W x D x H)	440mm(W) x 640mm(D) x 44 mm(H)
Operating Temperature	Operating: 0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-20 ~ 75°C (-4 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
Weight	10 kg
Certification	CE/FCC

Packing List

- 1x BIS-5121A/B-1U
- Accessory Box
- 1x power cord (US), 3x RJ45 LAN Cables, VGA Cable, 1 x CD (Manual, Quick Installation Guide, Utilities & Drivers)

Ordering Information

BIS-5121A-1U 1U Rackmount Single 3rd Gen Intel® Xeon® Scalable Processor (Ice Lake-SP/ Whitley platform) and Intel® C621A PCH Storage Server, supporting 8x DDR4 (up to 3200MHz), 4x 3.5" Hot-Swap HDD, 2x PCIe Gen4 slots, 2x 2.5" SSD (optional), 1x 1GbE IPMI, 2x USB 3.0/2.0, 2x 10GbE, 1x VGA, 1x M.2 (optional)

BIS-5121B-1U 1U Rackmount Single 3rd Gen Intel® Xeon® Scalable Processor (Ice Lake-SP / Whitley platform) and Intel® C627A PCH Storage Server, supporting 8x DDR4 (up to 3200MHz), 4x 3.5" Hot-Swap HDD, 2x PCIe Gen4 slots, 2x 2.5" SSD (optional), 1x 1GbE IPMI, 2x USB 3.0/2.0, 2x 10GbE, 1x VGA, 1x M.2 (optional)

Optional

OT006A Intel PFR Module

OT006B AEWIN RoT Module

I/O

