

BIS-5221

General Purpose Server

AWIN Technologies Co., Ltd.

2U Rackmount Dual Intel® Ice Lake-SP Xeon® scalable series Processor and Intel® C621A/C627A PCH Hybrid Storage Server, support 32x DDR4(up to 3200MHz) per system, supporting 2x OCP 3.0 Network Cards, 12x bays 3.5" Hot-Swap SAS/SATA HDD, IPMI, USB 3.0/2.0, 2x 1GbE, 1 Console, 2x M.2, Redundant PSU



Features

- 2U/12Bays Hybrid Storage Server System
- Dual 3rd Gen Intel® Xeon® Processor Scalable Processors (Ice Lake-SP / Whitley platform)
- 32x DDR4 ECC RDIMM/LRDIMM Memory slots
- Support up to 2x OCP 3.0 Network Cards
- Support up to 6x PCIe FHHL Add-on Cards+ 2x HHHL add-oncards
- Support up to 2 dual-width GPU accelerator for AI applications
- 80 PLUS Platinum Certified 1200W/1600W CRPS

Description

BIS-5221 is a 2U/12 bays Hybrid Storage System with dual 3rd Gen Intel® Xeon® Processor Scalable Processors (Ice Lake / Whitley platform). Refreshed CPU microarchitecture provides Higher performance & IPC, and 8-memory channels (16 RDIMMs per CPU) support high memory bandwidth & capacity. Also, with total 64 lanes PCIe 4.0 (16GT/s) per CPU, BIS-5221 provides flexible and scalable I/O scalability, supporting up to 2x OCP 3.0 network cards and multiple standard PCIe slots. From the system view, BIS-5221 features tool-less HDD/SDD tray and PCIe slots, which could support up to 2 GPU, and edge-cutting thermal airduct design solution. All above provides customer the most reliable system for application of AI computing/cloud computing/security solution. Last but not the least, BIS-5221 also features flexible customization for data center/ISV/CSP on hardware/firmware/BIOS/software.

Specifications

Processor System

CPU	Support Dual 3rd Gen Intel® Xeon® Scalable Processors (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 32 DIMMs (8x memory channels per CPU, 2x DIMMs per channel, 16 DIMMs per CPU) ECC & Registered : DDR4 2133/2400/2666/2933/3200MHz memory Support Intel Optane™ Persistent Memory 200 Series module4
Capacity	Max up to 1.12TB(per CPU) Validated up to 1024GB (using 32GB 3200DIMMs)

Expansion

Onboard Expansion Slots	4x FHHL PCIe Gen4 x16 slot 2x FHHL PCIe Gen4 x8 slot 2x HHHL PCIe Gen4 x16 slot 2x OCP3.0 4C+slot(w/x16 signal)
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I/O

USB	1x USB 3.0, 1x USB 2.0 (front I/O) 1x USB 3.0 (rear I/O) 1x USB 3.0 (Internal MB reserve)
Serial	1x RJ45 Console port(Com 1) Reserved 2x5 pin header (Com2)

Ethernet

GbE Ethernet	2x RJ45 GbE ports(MGMT/IPMI port)
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Storage

SATA	12x 2.5"/3.5" Hot-swap SAS/SATA Bay 2x Internal SATA 2.5" SSD(optional)
M.2	2x M.2 (2280 E/M-key) PCIe Gen3 x2 for boot drive

Power Supply

Watt	CRPS Redundant 1200/1600W
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Mechanical and Environment

Form Factor	2U Rackmount Server
LED	1x Power Button/LED 1x ID Button/LED
Dimension (W x D x H)	438.5mm(W) x 770 mm(D) x 88mm(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	21 kg
Certification	CE/FCC

Packing List

- 1x BIS-5221A/B
- Accessory Box
- 2x power cord(US), 1x CD (Manual, Quick Installation Guide, Utilities & Drivers)

Ordering Information

BIS-5221A 2U Rack-Mount Dual Intel® Ice Lake-SP Xeon® Scalable Processor and Intel® C621A PCH Hybrid Storage Server, support 32x DDR4RDIMMs (up to 3200MHz), supporting 2x OCP 3.0 Network Cards, 12 bays 3.5" hot-swap SAS/SATA HDD, IPMI, USB 3.0/2.0, 2x 1GbE RJ45, 1x Console, 2x M.2(E/M-key), CRPSRedundant PSU

BIS-5221B 2U Rack-Mount Dual Intel® Ice Lake-SP Xeon® Scalable Processor and Intel® C627A PCH Hybrid Storage Server, support 32x DDR4RDIMMs (up to 3200MHz), supporting 2x OCP 3.0 Network Modules, 12bays 3.5" hot-swap SAS/SATA HDD, IPMI, USB 3.0/2.0, 2x 1GbE RJ45, 1x Console, 2x M.2(E/M-key), CRPSRedundant PSU

Optional

OT006A Intel PFR Module

OT006B AEWIN RoT Module

I/O

