

BIS-5221

General Purpose Server

AWIN Technologies Co., Ltd.

2U Rackmount Dual 3rd Gen Intel® Xeon® Scalable Processor (Ice Lake-SP / Whitley platform) 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® Scalable Processor (Ice Lake-SP / Whitley platform)
- Support up to 12TB DDR4 RDIMM/LRDIMM 3200MHz & Intel® Optane™ Persistent Memory 200 series
- 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® Scalable Processor (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 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 32 DIMMs (8x memory channels per CPU, 2x DIMMs per channel, 16 DIMMs per CPU) --DDR4 RDIMM/LRDIMM up to 3200 MHz, 256GB per DIMM --Intel® Optane™ DC Persistent Memory (DCPMM) 200 Series module, up to 512GB per DIMM
Capacity	RDIMM/ LRDIMM + DCPMM up to total 12TB

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), 1 x 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

