

BIS-5101 Workstation

AWIN Technologies Co., Ltd.

4.5U rack-mountable desktop workstation Single 3rd Intel® Xeon® Scalable Processors(Ice Lake-SP) and Intel® PCH C621A workstation, support 8x DDR4 RDIMM (up to 3200MHz), support up to 2x dual-slot+ GPUs or 5x single-slot GPUs, 4 bays 3.5" Hot-Swap SAS/SATA HDD, IPMI, USB 3.0/2.0, 2x 1GbE, 1x Console, 2x M.2, Redundant PSU



Features

- 4.5U Rack-mountable Workstation System
- Single 3rd Gen Intel® Xeon® Scalable Processors up to 205W TDP
- 8x DDR4 RDIMM/LRDIMM Memory slots
- Support up to 2x dual-slot+ GPUs or 5x single-slot GPUs
- Up to 2x 80PLUS Platinum Certified 1200W CRPS



Description

BIS-5101 is a rack-mountable 4.5U desktop workstation system with single 3rd Gen Intel® Xeon® Scalable Processor based on the Ice Lake-SP platform. This new generation of Xeon processors brings significant improvement in core count and IPC, elevating the overall performance to a new level. With total of 64x PCIe Gen4 lanes, it offers enough bandwidth for any PCIe based accelerators. BIS-5101 is designed to accommodate 2x oversized dual-width accelerators such as 2x RTX-3080, or workstation/datacenter-oriented portfolio such as A30 or A100. With single-width accelerators, it can support 2x with full PCIe Gen4 x16 bandwidth, plus 3x more with PCIe Gen4 x8 bandwidth. This allows the BIS-5101 to flexibly support training and inference workloads depending on the configuration. With on-board BMC, you can enjoy the ease of management previously only available to server class hardware. Another reliability enhancing feature taken from datacenter is the support for 2x redundant CRPS power supplies to ensure the highest availability.

Specifications

▼ Processor System

CPU	Support Single 3rd Gen Intel® Xeon® Scalable Processor (Ice Lake-SP)
Chipset	Intel® C621A
CPU	AMI 64Mb SPI BIOS

▼ Memory

Technology	Total 8x RDIMMs (8x memory channels) ECC & Registered DDR4 2666/2933/3200MHz memory Support Intel Optane™ Persistent Memory 200 Series module
Capacity	Validated up to 256GB (with 32GB 3200MHz RDIMMs)

▼ Expansion

Onboard Expansion Slots	2x PCIe Gen4 x16 slots 3x PCIe Gen4 x8 slots
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▼ I/O

USB	2x USB 3.0 (Front I/O) 1x USB 3.0 (Rear I/O)
Serial	1x RJ45 Console port (COM 1) 1x VGA port

▼ Ethernet

GbE Ethernet	2x 1GbE RJ45 ports + 1x MGMT/IPMI port
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▼ Storage

SATA	4x 3.5" Hot-Swap SAS/SATA Bays – 8 with optional backplane 2x Internal 2.5" SATA SSD Bays
RAID	1x RAID/HBA card for front hot-swap bays
M.2	2x M.2 (2280 M-key) PCIe Gen3 x2

▼ Power Supply

Watt	Redundant 1200W CRPS
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▼ Mechanical and Environment

Form Factor	4.5U Rack-mountable Desktop Workstation
LED	1x Power Button/LED 1x Reset Button 1x HDD LED 1x ID Button/LED
Dimension (W x D x H)	200mm(W) x 590 mm(D) x 430mm(H)
Operating Temperature	Operating: 0 ~ 40°C (32 ~ 104°F)
Storage Temperature	0 ~ 75°C (32 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
Certification	CE/FCC

▼ Packing List

- 1x BIS-5101 unit