



Storage / Compute Server: 2U12S32-4189A

2U 12x3.5" NVMe/SATA, 32DIMM 2/4xLAN, 8PCIe, Dual Ice Lake Xeon®



Key Features:

- 2U 12 x 3.5" NVMe U.2 4.0 / SATA/SAS Hot Swap Drives
- Dual Socket P+ for 3rd Gen. Intel® Scalable Xeon® Processors
- 32 DDR4 up to 12TB 8-Channel Intel® Optane™ Memory
- 2 PCIe 4.0 x16 Slots, 5 PCIe 4.0 x8 Slots, PCIe 4.0 x8 Internal Slot
- 2 10GbE RJ45 or 2 10GbE RJ45 + 2 10GbE SFP+, IPMI 2.0
- 1200W Titanium Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud, etc.

Specifications:

Processor

- Dual 3rd Generation Intel® Scalable Xeon® (Ice Lake Family)
- Socket P+ (LGA 4189), supports 270W, up to 40 Core 80 Threads

Chipset

- Intel® C621A

Memory

- 32 x DDR4 DIMM Sockets
- 8-channel memory bus per processor
- Supports up to 8TB ECC DDR4 3200MHz RDIMM
- Supports up to 12TB Intel® Optane™ Persistent Memory 200 series

Storage

- 12 x 3.5" SATA/ NVMe*/ SAS** Hot Swap Bays
- Optional* Additional parts required for NVMe
- Optional** Broadcom® 3108/3808/3816/3916 for SAS (12Gb/s)
- 2 x SATA-DOM (Disk on Module)

Network

- Gigabit LAN for IPMI 2.0 by AST2600
- Optional 2 x 10GbE BaseT RJ45 LAN from Intel® X710-AT2 or 4 x 10GbE (2 x BaseT RJ45 + 2 x SFP+) from Intel® X710-TM4
- Additional LAN or InfiniBand by PCIe add-on cards

Expansion Slot

- 1 x PCIe 4.0 x16 (Full Height 10.5" L)
- 1 x PCIe 4.0 x16 (Low Profile)
- 5 x PCIe 4.0 x8 (Full Height 10.5" L)
- 1 x PCIe 4.0 x8 (Internal Low Profile)

Graphics

- Aspeed AST2600 BMC VGA (DB15)

Back I/O

- 1 x RJ45 IPMI
- 1 x DB15 VGA
- 2 x USB 3.0
- 1 x RS-232 COM

Internal I/O

- 2 x USB 3.0 Headers
- 1 x TPM Header

BIOS

- AMI® UEFI
- Watchdog Supported

Chassis

- 2U Rackmount with Front UID button/ Status LED
- 12 x 3.5" NVMe U.2 4.0/SATA/SAS Hot Swap Drive Bays
- 4 x 8cm Cooling Fans
- Dimension: 3.5" (89mm) H x 17.2" (437mm) W x 28.5" (724mm) D
- System Weight: 35.5 lbs. (16.2kg) Net, 57.5 lbs. (26.2kg) Gross

Power Supply

- 1200W (1+1) Titanium Redundant with PMBus
- 800W: 100-127Vac / 1200W: 200-240Vac Input

OS Supported

- Windows Server, Linux, FreeBSD, VMware

Applications

- Virtual Server, Compute Server, Database Server, Cloud Computing

Environments

- Operating Temperature: 10 to +35 C
- Non-operating Temperature: -40 to +60 C
- Vibration - Operating: 9.8 m/s²(1.0G) 5 to 500Hz
- Vibration - Non operating: 49 m/s²(5.0G) 15 to 500Hz
- Shock - Operating: 3,920 m/s² (400G) 2ms
- Shock - Non-Operating: 8,820 m/s² (900G) 1ms
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)
- MTBF: 100,000 Hours
- FCC, CE, UL, RoHS Compliance