

## Storage / Compute Server: 4U24S16-4189A

### 4U 24x3.5"+2x2.5" SATA, 16 DIMM 2 LAN, 6 PCIe+M.2, Dual Ice Lake Xeon®



#### Key Features:

- 4U 24 x 3.5" SAS/ SATA + 2 x 2.5" SATA Hot Swap Drives
- Dual Socket P+ for 3<sup>rd</sup> Gen. Intel® Scalable Xeon® Processor
- 16 DDR4 up to 4TB 8-Channel Intel® Optane™ Memory
- 4 PCIe 4.0 x16 Slots, 2 PCIe 4.0 x8 Slots
- 2 10GbE LAN with IPMI 2.0
- 1200W Titanium Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud, etc.

#### Specifications:

##### Processor

- Dual 3<sup>rd</sup> Generation Intel® Scalable Xeon® (Ice Lake Family)
- Socket P+ (LGA 4189), supports 120-270W, up to 40 Core 80 Threads

##### Chipset

- Intel® C621A

##### Memory

- 16 x DDR4 DIMM Sockets
- 2 x Dedicated Intel® Optane™ Persistent Memory Sockets
- 8-channel memory bus per processor
- Supports up to 4TB ECC DDR4 3200MHz RDIMM
- Supports up to 4TB Intel® Optane™ Persistent Memory 200 series

##### Storage

- 24 x 3.5" SATA/ SAS Hot Swap Bays
- 2 x 2.5" SATA Hot Swap Bays
- Intel® C621A supports SATA3 (6Gb/s) RAID-0/1/5/10
- Broadcom® 3908 supports SAS3 (12Gb/s) RAID-0/1/5/6/10/50/60
- 1 x M.2-2280/22110 for NVMe/SATA
- 2 x SATA-DOM (Disk on Module)

##### Network

- 2 x 10GbE BaseT RJ45 LAN from Intel® X550 Controller
- RJ45 Gigabit LAN for IPMI 2.0 by AST2600 BMC
- Additional LAN or InfiniBand by PCIe add-on cards

##### Expansion Slot

- 4 x PCIe 4.0 x16 (Low Profile)
- 2 x PCIe 4.0 x8 (Low Profile)
- PCIe slot 1/2 occupied by JBOD Expansion/Storage Controller

##### Graphics

- Aspeed AST2600 BMC VGA (DB15)

##### Back I/O

- 1 x RJ45 IPMI
- 2 x RJ45 10GbE LAN
- 1 x DB15 VGA
- 1 x RS-232 COM
- 4 x USB 3.2 Gen 1

##### Internal I/O

- 3 x USB 3.2 Gen 1 (2 x Headers + 1 x Type A)
- 2 x USB 2.0 Headers
- 1 x RS-232 COM Header
- 1 x TPM Header

##### BIOS

- AMI®
- Watchdog Supported

##### Chassis

- 4U Rackmount with UID/ Status LED
- 24 x 3.5" SAS/ SATA Hot Swap Drive Bays
- 2 x 2.5" SATA Hot Swap Bays
- 5 x 8cm PWM Cooling Fans
- Dimension: 7" (178 mm) H x 17.3" (439.4 mm) W x 26.5" (673 mm) D
- System Weight: 55 lbs. (24.9 kg) Net, 92 lbs. (41.7kg) Gross

##### Power Supply

- 1200W (1+1) Redundant Titanium Level with PMBus

##### 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/s<sup>2</sup>(1.0G) 5 to 500Hz
- Vibration - Non operating: 49 m/s<sup>2</sup>(5.0G) 15 to 500Hz
- Shock - Operating: 3,920 m/s<sup>2</sup> (400G) 2ms
- Shock - Non-Operating: 8,820 m/s<sup>2</sup> (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