

## Storage / Compute Server: 2U12S8-4189A

### 2U 12x3.5" SATA/ SAS, 8 DIMM 2 LAN, 4 PCIe + M.2, Ice Lake Xeon®



#### Key Features:

- 2U 12 x 3.5" SATA/ SAS Hot Swap Drives
- Socket P+ for 3<sup>rd</sup> Gen. Intel® Scalable Xeon® Processor
- 8 DDR4 up to 3TB 8-Channel Intel® Optane™ Memory
- 2 PCIe 4.0 x16 Slots, 2 PCIe 4.0 x8 Slots
- 2 10GbE LAN with IPMI 2.0
- 800W Titanium Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud, etc.

#### Specifications:

##### Processor

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

##### Chipset

- Intel® C621A

##### Memory

- 8 x DDR4 DIMM Sockets
- 8-channel memory bus per processor
- Supports up to 2TB ECC DDR4 3200MHz RDIMM
- Supports up to 3TB Intel® Optane™ Persistent Memory 200 series

##### Storage

- 12 x 3.5" SATA/ SAS Hot Swap Bays
- Optional 2 x 2.5" NVMe/ SATA rear Drive Bays
- Intel® C621A supports SATA3 (6Gb/s) RAID-0/1/5/10
- Broadcom® 3916 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

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

##### Expansion Slot

- 2 x PCIe 4.0 x16 (Low Profile)
- 2 x PCIe 4.0 x8 (Low Profile)

##### Graphics

- Aspeed AST2600 BMC VGA (DB15)

##### Back I/O

- 1 x RJ45 IPMI
- 2 x RJ45 10GbE LAN
- 1 x DB15 VGA
- 2 x USB 3.2 Gen 1
- 2 x USB 2.0

##### 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

- 2U Rackmount with Status LED
- 12 x 3.5" SAS/ SATA Hot Swap Drive Bays
- Optional 2 x 2.5" NVMe/ SATA rear Drive Bays
- 3 x 8cm PWM Cooling Fans
- Dimension: 3.5" (89 mm) H x 17.2" (437 mm) W x 25.6" (650 mm) D
- System Weight: 34 lbs. (15.4 kg) Net, 58 lbs. (26.3kg) Gross

##### Power Supply

- 800W (1+1) Redundant Titanium Level Power Supply
- 100-240Vac/47-63Hz and 240Vdc 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 +70 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