

Storage / Compute Server: **1U4S8-4189A**

1U 4x3.5" NVMe/SATA/SAS, 8 DIMM 2 LAN, PCIe x16, Ice Lake Xeon®



Key Features:

- 1U 4 x 3.5" NVMe/ SAS/ SATA Hot Swap Drives
- Socket P+ for 3rd Gen. Intel® Scalable Xeon® Processor
- 8 DDR4 up to 3TB 8-Channel Intel® Optane™ Memory
- PCIe 4.0 x16 Slot
- 2 Gigabit LAN with IPMI 2.0
- 400W Platinum Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud, etc.

Specifications:

Processor

- 3rd Generation Intel® Scalable Xeon® (Ice Lake Family)
- Socket P+ (LGA 4189), supports 220W, 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

- 4 x 3.5" SATA/ NVMe/ SAS* Hot Swap Bays
- Intel® C621A NVMe, SATA3 (6Gb/s) RAID-0/1/5/10
- Optional* Broadcom® 3108/3808/3816/3916 for SAS (12Gb/s)
- 2 x M.2-2280/22110 for NVMe/ SATA RAID-0/1
- 2 x SATA-DOM (Disk on Module)

Network

- RJ45 Gigabit LAN for IPMI 2.0 by AST2600 BMC
- 2 x 1GbE BaseT RJ45 LAN from Intel® i350
- Additional LAN or InfiniBand by PCIe add-on cards

Expansion Slot

- 1 x PCIe 4.0 x16 (Full Height Half Length)

Graphics

- Aspeed AST2600 BMC VGA (DB15)

Back I/O

- 1 x RJ45 IPMI
- 2 x RJ45 1GbE LAN
- 1 x DB15 VGA
- 1 x RS-232 COM
- 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)
- 4 x USB 2.0 Headers
- 1 x RS-232 COM Header
- 1 x TPM Header

BIOS

- AMI®
- Watchdog Supported

Chassis

- 1U Rackmount
- 4 x 3.5" NVMe/ SAS/ SATA Hot Swap Drive Bays
- 4 x 4cm PWM Cooling Fans
- Dimension: 1.7" (43 mm) H x 17.2" (437 mm) W x 19.98" (507 mm) D
- System Weight: 17.6 lbs. (8 kg) Net, 30.4 lbs. (13.8kg) Gross

Power Supply

- 400W (1+1) Redundant Platinum Level with PMBus
- 240V AC and DC 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/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