

Storage / Compute Server: 1U8N16-4189A

1U 8x2.5" NVMe, 16 DIMM 2 OCP 3.0, 2 PCIe 2 M.2, Dual Ice Lake Xeon®



Key Features:

- 1U 8 x 2.5" NVMe U.2/ SAS/ SATA Hot Swap Drives
- Dual Socket P+ for 3rd Gen. Intel® Scalable Xeon® Processors
- 16 DDR4 up to 6TB 8-Channel Intel® Optane™ Memory
- 2 PCIe 4.0 x16 Slots
- 2 M.2-2280
- 2 PCIe OCP 3.0 (PCIe 4.0 x16) Slots for Networking Module, IPMI 2.0
- 860W Platinum Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud

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

- 16 x DDR4 DIMM Sockets
- 8-channel memory bus per processor
- Supports up to 4TB ECC DDR4 3200MHz RDIMM
- Supports up to 6TB Intel® Optane™ Persistent Memory 200 series

Storage

- 8 x 2.5" NVMe U.2 PCIe 4.0 / SATA Hot Swap Bays
- Intel® C621A NVMe (16GT/s) or SATA (6Gb/s) RAID-0/1/5/10
- 2 x M.2-2280 Sockets for NVMe/ SATA RAID-0/1
- 1 x SATA-DOM (Disk on Module)

Network

- 2 x OCP 3.0 (PCIe 4.0 x16) for Network Modules
- Network Modules are available with 2-4 ports of 1G/2.5G/10G/25G/100G RJ45/SFP+/SFP28/QSFP28
- RJ45 Gigabit LAN for IPMI 2.0 by AST2600 (KVM)
- Additional LAN or InfiniBand by PCIe add-on cards

Expansion Slot

- 2 x PCIe 4.0 x16 (Full Height Half Length)
- 2 x OCP 3.0 (PCIe 4.0 x16) for Network Modules

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 RS-232 COM Header
- 1 x TPM Header

BIOS

- AMI®
- Watchdog Supported

Chassis

- 1U Rackmount with Optional DVD-ROM drive bay
- 6 x 4cm Cooling Fans
- Dimension: 1.7" (43 mm) H x 17.2" (437 mm) W x 23.5" (597 mm) D
- System Weight: 25 lbs. (11.3 kg) Net, 40 lbs. (18.1kg) Gross

Power Supply

- 860W (1+1) Redundant Platinum Level
- 100-240Vac Input and 200-240Vdc 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 +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