

Storage / Compute Server: 1U12N32-4189A

1U 12x NVMe U.2/SATA, 32x 8-Channel DDR4, 3rd Gen. Scalable Xeon



Key Features:

- 1U 12 x 2.5" NVMe U.2 4.0 / SATA Hot Swap Drives
- Dual Socket P+ for 3rd Gen. Intel® Scalable Xeon Processors
- 32 DDR4 up to 12TB 8-Channel Intel® Optane® Memory
- 4 PCIe 4.0 x16 Slots
- 4 x 10Gbit Ethernet (2 x RJ45, 2 x SFP+), IPMI 2.0
- 1200W Titanium Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud

Specifications:

Processor

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

Chipset

- Intel® C621A

Memory

- 32 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 2.5" NVMe U.2 PCIe 4.0 / SATA How Swap Bays
- Intel® C621A NVMe (16Gb/s) or SATA (6Gb/s) RAID-0/1/5/10
- 2 x SATA-DOM (Disk On Module) Connectors

Network

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

Expansion Slot

- 2 x PCIe 4.0 x16 (Full Height 10.5" L)
- 2 x PCIe 4.0 x16 (1 Low Profile, 1 Internal Low Profile)
- 1 x LAN Module Slot (For 2x10GbE or 2x10GbE+2x10GbE SFP+)

Graphics

- Aspeed AST2600 BMC VGA (DB15)

Back I/O

- 1 x RJ45 IPMI
- 2 x RJ45 Ethernet, Optional 2 x SFP+ Ethernet
- 1 x DB15 VGA, 2 x USB 3.0, 1 COM

Internal I/O

- 1 x RS-232 COM port header
- 1 x USB 3.0 Header for Front USB
- 1 x TPM Header

BIOS

- AMI
- Watchdog Supported

Chassis

- 1U Rackmount
- 12 x 2.5" NVMe U.2 4.0/SATA Hot Swap Drive Bays
- 8 x 4cm Cooling Fans
- Dimension: 1.7" (43 mm) H x 17.2" (437 mm) W x 29.1" (739 mm) D
- System Weight: 33 lbs. (15 kg) Net, 45 lbs. (20.5kg) Gross

Power Supply

- 1200W (1+1) Redundant Titanium Level 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: 0 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