



Storage / Compute Server: 1U10N16-4189A

1U 10x NVMe U.2/SATA/SAS, 16x 8-Channel DDR4, 3rd Gen. Scalable Xeon



Key Features:

- 1U 10 x 2.5" NVMe U.2 4.0 / SATA / SAS 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 x M.2 / SATA, 1 x SATA-DOM
- OCP 3.0 PCIe 4.0 x16 Slot for Ethernet Module, IPMI 2.0
- 860W Platinum Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud, etc.

Specifications:

Processor

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

Chipset

- Intel® C621A

Memory

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

Storage

- 10 x 2.5" NVMe U.2 PCIe 4.0 / SATA / SAS* Hot Swap Bays
- Intel® C621A NVMe (16Gb/s) or SATA (6Gb/s) RAID-0/1/5/10
- Optional* SAS (12Gb/s) by Broadcom® 3908 RAID-0/1/5/6/10/50/60
- 2 x M.2-22110/2280 Sockets for NVMe 3.0 x2/SATA, 1 x SATA-DOM

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
- Additional LAN or InfiniBand by PCIe add-on cards

Expansion Slot

- 2 x PCIe 4.0 x16 (Full Height)
- 2 x OCP 3.0 (PCIe 4.0 x16) Slots for Ethernet Network Modules

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

- 2 x USB 2.0 header for Front USB
- 1 x TPM Header

BIOS

- AMI
- Watchdog Supported

Chassis

- 1U Rackmount
- 10 x 2.5" NVMe U.2 4.0/SATA/SAS Hot Swap Drive Bays
- 6 x 4cm Cooling Fans
- Dimension: 1.7" (43mm) H x 17.2" (437mm) W x 23.5" (597mm) D
- System Weight: 28 lbs. (12.7kg) Net, 45 lbs. (20.5kg) Gross

Power Supply

- 2 x 860W Redundant Platinum Level
- 100-240Vac 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

Model Name Definitions: 1U=1U Rack case, 12N=12x NVMe U.2/SATA Bays, 32=32 Memory sockets, 4189=CPU Socket, A=Generation.

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