

Storage / Compute Server: 2U12S16-4189A

2U 12x3.5"/2.5" SATA, 16DIMM 2OCP 3.0, 6PCIe 2M.2, Dual Ice Lake Xeon®



Key Features:

- 2U 12 x 3.5"/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 x PCIe 4.0 x16 Slots, 4 x PCIe 4.0 x8 Slots
- 2 x OCP 3.0 PCIe 4.0 x16 Slots with IPMI 2.0
- 1200W Titanium Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud, etc.

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

- 12 x 3.5" SATA/ NVMe/ SAS* Hot Swap Bays (can support 2.5" drives)
- Intel® supports NVMe, U.2, SATA (6Gb/s); RAID-0/1/5/10
- Optional* Broadcom® 3108/3808/3816/3916 for SAS (12Gb/s)
- 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
- 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 Slots (Full Height 6.6" L)
- 4 x PCIe 4.0 x8 Slots (Full Height 6.6" L) (2 x16 Slots merging x8 Slots)
- 2 x OCP 3.0 (PCIe 4.0 x16) Mezzanine NIC Slots

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 TPM Header

BIOS

- AMI®
- Watchdog Supported

Chassis

- 2U Rackmount with Front Status LED
- 12 x 3.5" NVMe U.2 4.0/SATA/SAS Hot Swap Drive Bays
- 4 x 8cm Cooling Fans
- Dimension: 3.5" (89mm) H x 17.2" (437mm) W x 25.5" (648mm) D
- System Weight: 33.5 lbs. (15.2kg) Net, 60 lbs. (27.2kg) Gross

Power Supply

- 1200W (1+1) Titanium Redundant with PMBus
- 1200W: 100-127Vac / 200-240Vac 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