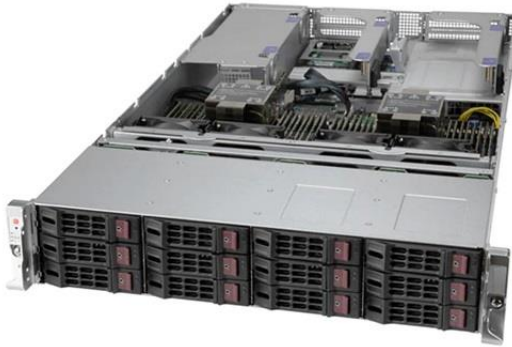




# Storage / Compute Server: 2U12SN32-4189A

## 2U 12x3.5" SATA, 32DIMM 2OCP 3.0, 8PCIe 2M.2, Dual Ice Lake Xeon®



### Key Features:

- 2U 12 x 3.5" NVMe U.2 4.0 / SATA/SAS Hot Swap Drives
- Dual Socket P+ for 3<sup>rd</sup> Gen. Intel® Scalable Xeon® Processors
- 32 DDR4 up to 12TB 8-Channel Intel® Optane™ Memory
- 5 x PCIe 4.0 x16 Slots, 3 x PCIe x8 Slots, 2 x M.2 / SATA
- 2 x OCP 3.0 PCIe 4.0 x16 Slot for Ethernet Module, IPMI 2.0
- 1200W Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud, etc.

### Specifications:

#### Processor

- Dual 3<sup>rd</sup> Generation Intel® Scalable Xeon® (Ice Lake Family)
- Socket P+ (LGA 4189), supports 270W, up to 40 Core 80 Threads

#### Chipset

- Intel® C621A

#### Memory

- 32 x 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 3.5" NVMe U.2 PCIe 4.0 / SATA / SAS\* Hot Swap Bays
- Intel® 4 x NVMe (16GT/s), C621A 8 x SATA (6Gb/s) RAID-0/1/5/10
- Optional\* Broadcom® 3108/3808/3816/3916 for SAS (12Gb/s)
- 2 x M.2-2280/22110 Sockets for NVMe/SATA RAID-0/1

#### 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

- 5 x PCIe 4.0 x16 (Full Height 10.5" L)
- 3 x PCIe 4.0 x8 (Full Height 10.5" L)
- 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
- 1 x DB15 VGA
- 2 x USB 3.0

#### Internal I/O

- 1 x RS-232 COM Header
- 2 x USB 3.0 Headers
- 1 x TPM Header

#### BIOS

- AMI® UEFI
- Watchdog Supported

#### Chassis

- 2U Rackmount with Front UID
- 12 x 3.5" NVMe U.2 4.0/SATA/SAS Hot Swap Drive Bays
- 4 x 8cm Cooling Fans
- Dimension: 3.5" (88.9mm) H x 17.2" (437mm) W x 31.6" (803mm) D
- System Weight: 37 lbs. (17kg) Net, 63 lbs. (29kg) Gross

#### Power Supply

- 1200W (1+1) Redundant 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: 10 to +35 C
- Non-operating Temperature: -40 to +70 C
- Vibration - Operating: 9.8 m/s<sup>2</sup>(1.0G) 5 to 500Hz
- Vibration - Non operating: 49 m/s<sup>2</sup>(5.0G) 15 to 500Hz
- Shock - Operating: 3,920 m/s<sup>2</sup> (400G) 2ms
- Shock - Non-Operating: 8,820 m/s<sup>2</sup> (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