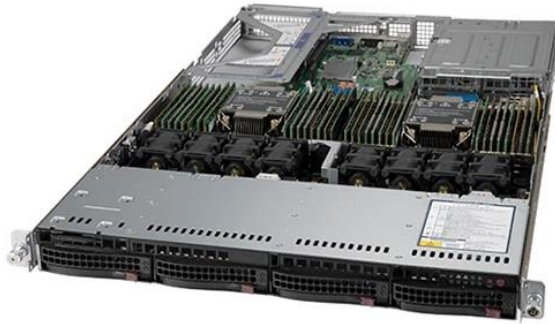




## Compute / Storage Server: 1U4S32-4189A

### 1U 4x3.5" Bays, 32DIMM 2/4x10GbE, 4 Slots, Dual Ice Lake Xeon®



#### Key Features:

- 1U 4 x 3.5" NVMe/ SAS/ SATA 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
- 4 PCIe 4.0 x16 Slots (2 x FH + 1 x LP + 1 x Internal)
- 2x10GbitE or 2x10GbE+2x10G SFP+, IPMI 2.0
- 1200W Titanium Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud

#### 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

- 4 x 3.5" SATA/ NVMe\*/ SAS\* Hot Swap Bays
- Optional Additional 2 x 2.5" 7mm SATA SSD front drive bays
- Intel® C621A supports NVMe (16GT/s), SATA (6Gb/s) RAID-0/1/5/10
- Optional\* Broadcom® 3108/3808/3816/3916 for SAS (12Gb/s)
- 2 x SATA-DOM (Disk-On-Module) Connectors

##### Network

- Optional 2 x 10GbE BaseT RJ45 LAN from Intel® X710-AT2 or 4 x 10GbE (2 x BaseT RJ45 + 2 x SFP+) from Intel® X710-TM4
- RJ45 Gigabit LAN for IPMI 2.0 by AST2600 BMC
- Additional LAN or InfiniBand by PCIe add-on cards

##### Expansion Slot

- 2 x PCIe 4.0 x16 Full Height 10.5" L
- 1 x PCIe 4.0 x16 Low Profile
- 1 x PCIe 4.0 x16 Internal Low Profile

##### Graphics

- Aspeed AST2600 BMC VGA (DB15)

##### Back I/O

- 1 x RJ45 IPMI
- 1 x DB15 VGA, 1 x RS-232 COM
- 2 x USB 3.0

##### Internal I/O

- 2 x USB 3.0 Headers
- 1 x TPM Header

##### BIOS

- AMI®
- Watchdog Supported

##### Chassis

- 1U Rackmount with UID button/ LED
- 4 x 3.5" NVMe/ SAS/ SATA Hot Swap Drive Bays
- Optional Slim DVD/FDD or additional 4x2.5" 7mm SATA SSD bays
- 8 x 4cm Cooling Fans
- Dimension: 1.7" (43 mm) H x 17.2" (437 mm) W x 29.7" (754 mm) D
- System Weight: 29.5 lbs. (13.4 kg) Net, 44.5 lbs. (20.2kg) 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: 10 to +35 C
- Non-operating Temperature: -40 to +60 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