



## Storage / Compute Server: 1U12N32-E7003

### 1U 12x2.5" NVMe/SATA, 32DIMM 4LAN, 3PCIe, Dual 3<sup>rd</sup> Gen. EPYC



#### Key Features:

- Dual AMD EPYC™ 7003/7002 Series Processors
- 1U 12 x 2.5" NVMe U.2 4.0 / SATA Hot Swap Drives
- 32 DDR4 up to 8TB 8-Channel 3200MHz ECC Memory
- 4 x 10Gbit Ethernet (2 x RJ45, 2 x SFP+), IPMI 2.0
- 3 PCIe 4.0 x16 Slots (2 Full Height, 1 Low Profile)
- 1200W Titanium Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud

#### Specifications:

##### Processor

- Dual AMD EPYC™ 7003/7002 Series Processors
- Socket SP3 (LGA 4094) supports 280W, Up to 64 Core 128 Threads

##### Memory

- 32 x DDR4 DIMM Sockets
- 8-channel memory bus per processor
- Supports up to 8TB ECC DDR4 3200MHz RDIMM

##### Storage

- 12 x 2.5" NVMe U.2 PCIe 4.0 / SATA Hot Swap Bays
- Supports NVMe (16GT/s) / SATA (6Gb/s) RAID-0/1/5/10
- Optional 2 x M.2-2280 PCIe 3.0 x4 NVMe Slots (by Add-on Card)
- 2 x SATA-DOM (Disk on Module)

##### Network

- 2 x Intel® X710-AT2 10GbE BaseT LAN RJ45
- 2 x Intel® X710-AT2 10GbE LAN SFP+
- RJ45 Gigabit LAN for IPMI 2.0 by AST2500
- Additional LAN or InfiniBand by PCIe add-on cards

##### Expansion Slot

- 3 x PCIe 4.0 x16 (2 Full Height, 1 Low Profile)

##### Graphics

- Aspeed AST2500 BMC VGA (DB15)

##### Back I/O

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

##### Internal I/O

- 1 x TPM Header
- 2 x USB 3.0 Headers (1 used for Front Port)

##### BIOS

- AMI®
- Watchdog Supported

##### Chassis

- 1U Rackmount with Front UID Button/LED
- 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, 48 lbs. (21.8kg) 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 +30 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