



## Storage / Compute Server: 2U24N32-E7003

### 2U 24x NVMe U.2/SATA/SAS, 32x 8-Channel DDR4, 3<sup>rd</sup> Gen. EPYC



#### Key Features:

- Dual AMD® EPYC™ 7003/7002 Series Processors
- 2U 24 x 2.5" NVMe U.2 4.0 / SATA / SAS 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, 1 PCIe 4.0 x8 Slots
- 1600W 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 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 / SAS\* Hot Swap Bays
- Supports NVMe (16GT/s) / SATA (6Gb/s) RAID-0/1/5/10
- Optional\* Broadcom 3108/3808/3816/3916 for SAS (12Gb/s)
- 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-TM4 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)
- 1 x PCIe 4.0 x8 (Full Height)

##### Graphics

- Aspeed AST2500 BMC VGA (DB15)

##### Back I/O

- 1 x RJ45 IPMI, UID Switch/Indicator
- 2 x RJ45 Ethernet
- 2 x SFP+ Ethernet
- 1 x DB15 VGA Port
- 2 x USB 3.0

##### Internal I/O

- 1 x RS-232 COM port header, 1 TPM Header
- 1 x USB 3.0 Type-A

##### BIOS

- AMI
- Watchdog Supported

##### Chassis

- 2U Rackmount with Front UID/LED
- 12 x 2.5" 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 28.46" (723mm) D
- System Weight: 42 lbs. (19kg) Net, 70 lbs. (32kg) Gross

##### Power Supply

- 1600W (1+1) Redundant Titanium Level with PMBus
- 1000W: 100-127Vac / 1600W: 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

Model Name Definitions: 2U=2U Rack case, 24N=24x NVMe U.2/SATA Bays, 32=32 Memory sockets, E7003=3<sup>rd</sup> Gen EPYC.

**Polywell Computers, Inc.** 1461-1 San Mateo Ave. So. San Francisco, CA 94080, USA. [polywell.com](http://polywell.com) [info@polywell.com](mailto:info@polywell.com)