



## Storage / Compute Server: 2U24X-24N-4189A

### 2U 4 Node, 24x NVMe U.2/SATA, 3<sup>rd</sup> Gen. Scalable Xeon



#### Key Features:

- 2U 4 Node Compute Servers
- Dual Socket P+ for 3<sup>rd</sup> Gen. Intel® Scalable Xeon Processors
- 6 x 2.5" NVMe U.2 4.0 / SATA Hot Swap Drives per Node
- 20 DDR4 up to 6TB 8-Channel Intel® Optane® Memory
- 2 x PCIe 4.0 x16 Low Profile Slots, 2 x M.2
- OCP 3.0 PCIe 4.0 x16 Slot for Ethernet Module, IPMI 2.0
- 2600W Titanium Redundant Power Supply
- For Virtual Server, Compute Server, Database Server, Cloud, etc.

#### Specifications:

##### Processor

- Dual 3<sup>rd</sup> Generation Intel® Scalable Xeon® per Node
- Socket P+ (LGA 4189), supports 205W, Up to 36 Core 72 Threads

##### Chipset

- Intel® C621A

##### Memory

- 20 DDR4 DIMM Sockets per Node
- 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

- 6 x 2.5" NVMe U.2 PCIe 4.0 / SATA How Swap Bays per Note
- Supports NVMe (16GT/s) or SATA (6Gb/s) RAID-0/1/5/10
- 2 x M.2-20110/2080/2060 Sockets for NVMe 4.0 x16/SATA per Node

##### Network

- OCP 3.0 (PCIe 4.0 x16) for Network Module per Node
- 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

- 2 x PCIe 4.0 x16 (Low Profile) per Node
- 1 x OCP 3.0 (PCIe 4.0 x16) Slot for Ethernet Network Module per Node

##### Graphics

- Aspeed AST2600 BMC VGA (DB15) per Node

##### Back I/O

- 1 x RJ45 IPMI
- Optional 2-4 RJ45/SFP+/SFP28/QSFP28 Ports
- 1 x DB15 VGA, 2 x USB 3.0

##### Internal I/O

- 1 x RS-232 COM port header
- 1 x TPM Header

##### BIOS

- AMI
- Watchdog Supported

##### Chassis

- 2U 4 Node Rackmount
- 24 x 2.5" NVMe U.2 4.0/SATA Hot Swap Drive Bays (6 per Node)
- 4 x 8cm Cooling Fans
- Dimensions: 3.47"(88mm) H x 17.68"(449mm) W x 28.75"(730mm) D
- System Weight: 54.5 lbs. (24.7 kg) Net, 85 lbs. (38.6kg) Gross

##### Power Supply

- 2600W (1+1) Redundant Titanium Level
- 208-250Vac / 220-240Vac Input

##### OS Supported

- Windows Server, Linux, FreeBSD, VMware

##### Applications

- Virtual Server, Compute Server, Database Server, Cloud Computing.

##### Environments

- Operating Temperature: 0 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

Model Name Definitions: 2U=2U Rack case, 4X= 4 MB Nodes, 24N=24x NVMe U.2/SATA Bays, 4189=CPU Socket, A=Generation.

**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)