



## AI / GPU Computing: 2U6GPU-4189A

2U 6xGPU Slots, 10x2.5", 16DIMM OCP3.0 LAN, 3<sup>rd</sup> Gen. Scalable Xeon



### Key Features:

- 2U 6 x GPU Slots for Nvidia® A100, A40 or RTX-A6000 GPU Cards
- Dual Socket P+ for 3<sup>rd</sup> Gen. Intel® Scalable Xeon Processors
- Front 10 x 2.5" (4) NVMe U.2 4.0 / (6) SATA Hot Swap System Drives
- 2 x M.2 NVMe 4.0 / SATA for OS Mirrored Drives
- 16 DDR4 up to 4TB 8-Channel Memory, supports Optane® Memory
- 6 PCIe 4.0 x16 FHFL, 2 PCIe 4.0 x8 LP Slots
- OCP 3.0 PCIe 4.0 x16 for Networking Module, IPMI 2.0
- 2 x 2600W Titanium Redundant Power Supply
- GPU Cluster for AI, Deep Learning, HPC.

### 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

#### GPU

- 6 GPU Slots for Nvidia® A100, A40 or RTX-A6000 GPU Cards
- PCIe 4.0 x16 Direct Interconnect CPU-GPU

#### Memory

- 16 DDR4 DIMM Sockets
- 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

- 10 x 2.5" 4 NVMe U.2 PCIe 4.0 / 6 SATA How Swap Bays
- Intel® C621A 4 NVMe (16GT/s), 6 SATA (6Gb/s) RAID-0/1/5/10
- 2 x M.2-2280 Sockets for NVMe 4.0 x16 / SATA RAID-1

#### Network

- OCP 3.0 (PCIe 4.0 x16) for Network Module
- 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 (KVM)
- Additional LAN or InfiniBand by PCIe add-on cards

#### Expansion Slot

- 6 x PCIe 4.0 x16 (Full Height, Full Length)
- 2 x PCIe 4.0 x8 (Low Profile)
- 1 x OCP 3.0 (PCIe 4.0 x16) Slot for Ethernet Network Module

#### Back I/O

- 1 x RJ45 IPMI Front, 1 x DB15 VGA, 2 x USB 3.0

#### Other I/O

- 1 TPM header, 2 x USB 2.0 (Front)

#### BIOS

- AMI, Watchdog Supported

#### Chassis

- 2U Rackmount with Front Pull-out ID Tag
- 4 x 2.5" NVMe U.2, 6 x 2.5" SATA Hot Swap Drive Bays
- Dimension: 3.5" (89mm) H x 17.2" (437mm) W x 31" (787mm) D
- System Weight: 52 lbs. (24kg) Net, 66 lbs. (31kg) Gross

#### Power Supply

- 2 x 2600W Redundant Titanium Level (with PMBus)
- 1000W: 100-127Vac / 2600W: 220-240Vac Input

#### OS Supported

- Windows Server, Linux

#### Applications

- CPU Cluster for AI, Deep Learning, HPC.

#### 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