

AI / GPU Computing: 4U10GPU-4189A

4U 10xGPU-Slots, 24x2.5", 32DIMM 2LAN+OCP3.0, 3rd Gen. Scalable Xeon



Key Features:

- 4U 10 x GPU Slots for Nvidia® A100, A40 or RTX-A6000 GPU Card
- Dual Socket P+ for 3rd Gen. Intel® Scalable Xeon Processors
- Front 24 x 2.5" NVMe U.2 4.0 / SATA / SAS Hot Swap System Drives
- 2 x M.2 NVMe 4.0 / SATA for OS Mirrored Drives
- 32 DDR4 up to 12TB 8-Channel Memory, supports Optane® Memory
- 12 PCIe 4.0 x16 Full Height Full Length Slots
- 2xGbit LAN+OCP 3.0 PCIe 4.0 x16 for Networking Module, IPMI 2.0
- 4 x 2000W Titanium Redundant Power Supply
- GPU Cluster for AI, Deep Learning, HPC.

Specifications:

Processor

- Dual 3rd Generation Intel® Scalable Xeon (Ice Lake Family)
- Socket P+ (LGA 4189), supports 270W, Up to 40 Core 80 Threads

Chipset

- Intel® C621A

GPU

- 10 GPU Slots for Nvidia® A100, A40 or RTX-A6000 GPU Card

Memory

- 32 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

- 24 x 2.5" 8 NVMe U.2 PCIe 4.0 / 8 SATA / 8 SAS* How Swap Bays
- Intel® C621A 8 NVMe (16GT/s), 16 SATA (6Gb/s) RAID-0/1/5/10
- Optional* SAS (12Gb/s) by Broadcom® 3908 RAID-0/1/5/6/10/50/60
- 2 x M.2-2280 Sockets for NVMe 4.0 x16 / SATA

Network

- 2 x Gigabit Ethernet (Intel® i350)
- 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

- 12 x PCIe 4.0 x16 (Full Height, Full Length)
- 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 3.1 Gen2

Internal I/O

- 1 TPM header

BIOS

- AMI, Watchdog Supported

Chassis

- 4U Rackmount
- 24 x 2.5" NVMe U.2 4.0/SATA/SAS Front Hot Swap Drive Bays
- Dimension: 7" (178mm) H x 17.2" (437mm) W x 29" (737mm) D
- System Weight: 85 lbs. (40kg) Net, 120 lbs. (55kg) Gross

Power Supply

- 4 x 2000W Redundant Titanium Level
- 1000W: 100-127Vac / 2000W: 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/s²(1.0G) 5 to 500Hz
- Vibration - Non operating: 49 m/s²(5.0G) 15 to 500Hz
- Shock - Operating: 3,920 m/s² (400G) 2ms
- Shock - Non-Operating: 8,820 m/s² (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