



AI / GPU Computing: 4U8GPU-A100-E7003

4U 8xGPU-A100, 6xU.2/SATA, 32x8-Channel DDR4, 3rd Gen. EPYC



Key Features:

- 4U 8 x Nvidia® HGX A100 GPU 40GB/80GB, NVLink, NVSwitch
- Dual AMD® EPYC™ 7003/7002 Series Processors
- Front 6 x 2.5" NVMe U.2 4.0 / SATA Hot Swap System Drives
- Optional Rear 4 x 2.5" NVMe U.2 4.0 SSD for GPU Storage
- 2 x M.2 NVMe 3.0 / SATA for OS Mirrored Drives
- 32 DDR4 up to 8TB 8-Channel 3200MHz ECC Memory
- 9 PCIe 4.0 x16, 1 x8 Low Profile Slots
- OCP 3.0 PCIe 4.0 x16 for Networking Module, IPMI 2.0
- 4 x 2200W-3000W Platinum/Titanium Redundant Power Supply
- GPU Cluster for AI, Deep Learning, HPC.

Specifications:

Processor

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

GPU

- Nvidia® HGX A100 8-GPU 40GB/80GB, NVLink, NVSwitch

Memory

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

Storage

- 6 x 2.5" NVMe U.2 PCIe 4.0 / SATA How Swap Bays
- Up to 6 NVMe (16GT/s) / 4 SATA (6Gb/s) RAID-0/1/5/10
- Optional Rear 4 x NVMe U.2 PCIe 4.0 Hot Swap for GPU Storage
- 2 x M.2-22110/2280/2260 Sockets for NVMe 3.0 x2/SATA

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

- 9 x PCIe 4.0 x16 (8 Rear, 1 Front), 1 x8 (Front) Low Profile
- 1 x OCP 3.0 (PCIe 4.0 x16) Slot for Ethernet Network Module

Other I/O

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

Internal I/O

- 1 x RS-232 COM and 1 TPM header

BIOS

- AMI, Watchdog Supported

Chassis

- 4U Rackmount
- 6 x 2.5" NVMe U.2 4.0/SATA Front Hot Swap Drive Bays
- Optional 4 x 2.5" NVMe U.2 4.0 Rear GPU Storage Drive Bays
- Dimension: 6.9" (174mm) H x 17.6" (446mm) W x 35.4" (900mm) D
- System Weight: 170 lbs. (77kg) Net, 230 lbs. (105kg) Gross

Power Supply

- 4 x 2200W Redundant Platinum Level (Optional 3000W Titanium)
- 1200W: 100-127Vac / 2200-3000W: 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

Model Name Definitions: 4U=4U Rack case, 8GPU-A100 = Nvidia A100 8GPU, E7003=EPYC 7003 3rd Generation.

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