



GPU Cluster for AI: 2U4GPU-A100-E7003

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



Key Features:

- 2U 4 x Nvidia® HGX A100 GPU 40GB/80GB, NVLink, NVSwitch
- Dual AMD® EPYC™ 7003/7002 Series Processors
- 4 x 2.5" NVMe U.2 4.0 / SATA Hot Swap Drives
- 32 DDR4 up to 8TB 8-Channel 3200MHz ECC Memory
- 4 PCIe 4.0 x16 + 1 PCIe 4.0 x8 Low Profile Slot
- 2 x 10Gbit Ethernet + IPMI 2.0
- 2200-3000W Platinum 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 4-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

- 4 x 2.5" NVMe U.2 PCIe 4.0 / SATA How Swap Bays
- Supports NVMe (16GT/s) / SATA (6Gb/s) RAID-0/1/5/10
- Optional 2 x M.2-2280 PCIe x4 by PCIe x8 Adapter

Network

- 2 x 10GbE BaseT LAN RJ45
- RJ45 Gigabit LAN for IPMI 2.0 by AST2600 (KVM)
- Additional LAN or InfiniBand by PCIe add-on cards

Expansion Slot

- 4 x PCIe 4.0 x16 (Low Profile)
- 1 x PCIe 4.0 x8 (Low Profile)

Graphics

- Aspeed AST2600 BMC VGA (DB15)

Back I/O

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

Internal I/O

- 1 x RS-232 COM, 1 TPM header

BIOS

- AMI
- Watchdog Supported

Chassis

- 2U Rackmount
- 4 x 2.5" NVMe U.2 4.0/SATA Hot Swap Drive Bays
- 4 x 80mm Front Hot Swap Cooling Fans
- Dimension: 3.5" (89mm) H x 17.2" (437 mm) W x 32.4" (823mm) D
- System Weight: 80 lbs. (36.5kg) Net, 90 lbs. (41kg) Gross

Power Supply

- 2 x 2200W Redundant Platinum Level (Optional 3000W)
- 1000W: 100-127Vac / 2200W: 220-240Vac Input

OS Supported

- Windows Server, Linux, FreeBSD, CUDA GPU Computing

Applications

- GPU Cluster for AI, Deep Learning.

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: 2U=2U Rack Case, 4GPU-100A=4 x Nvidia A100 GPU, E7003=EPYC 7003 3rd Generation.

Polywell Computers, Inc. 1461-1 San Mateo Ave. So. San Francisco, CA 94080, USA. polywell.com info@polywell.com