

AceleMax DGS-428AS

4U Dual AMD EPYC Processor 8x NVIDIA A100 SXM4 GPU Server



Features

- High density 4U System with eight NVIDIA HGX A100 SXM4 GPUs
- High GPU Peer to Peer Communication via NVIDIA NVLINK
- Less latency with Direct Attached GPUs & Next Gen PCIe 4.0 Support
- Eight NIC for GPU Direct Attach RDMA & 4 NVMe GPU Direct Storage
- Supports two AMD EPYC™ 7002 or 7003 series processors family

AceleMax DGS-428AS System Specifications

Processor	<ul style="list-style-type: none"> • Dual AMD EPYC™ 7002 or 7003 series processor, 7nm, Socket SP3, up to 64 cores, 128 threads, and 256MB L3 cache TDP up to 280W
Memory	<ul style="list-style-type: none"> • 32x DDR4 DIMM slots • 8-Channel memory architecture • Up to 8TB RDIMM/LRDIMM DDR4-3200 memory
GPU	<ul style="list-style-type: none"> • Supports 8 NVIDIA A100 40GB or 80GB SXM4 GPUs • Supports PCIe Gen4: 64 GB/sec Third generation NVIDIA® NVLink® 600 GB/sec interconnect interface • Up to 7 Multi-Instance GPU (MIG) instances • Delivers 100% performance for Top applications • Up to 55,296 FP32 CUDA Cores, 27,648 FP64 CUDA Cores, 3,456 Tensor Cores, 77.60 TF peak FP64 double-precision performance, 156 TF peak FP64 Tensor Core double-precision performance, 156 TF peak FP32 single-precision performance, 2,496 TF peak Bfloat16 performance, 2,496 TF peak FP16 Tensor Core half-precision performance, 9,984 TOPS peak Int8 Tensor Core Inference performance, and 320GB GPU memory, with eight A100 SXM4 GPUs in a 4U chassis • On-board Aspeed AST2600 graphics controller
Expansion Slots	<ul style="list-style-type: none"> • 8 x SXM4 sockets for NVIDIA HGX™ A100 8-GPU 40GB/80GB module • 10 x Low profile Gen4 x16 expansion slots <ul style="list-style-type: none"> - 8 x expansion slots in rear side, 2 x expansion slots in front side • M.2 extension board: CMTP062 • 2 x M.2 slots: <ul style="list-style-type: none"> - M-key - PCIe Gen4 x4 - Supports NGFF-2242/2260/2280 cards 16 FHFL
Server Management	<ul style="list-style-type: none"> • Support for Intelligent Platform Management Interface v.2.0 • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

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Storage	<ul style="list-style-type: none">• 6x U.2 NVMe bays (4 –PCIe switch & 2 –CPU)• 2x M.2 NVMe bays
Network Controller	<ul style="list-style-type: none">• Dual RJ45 10GbE-aggregate host LAN• 1x GbE management LAN
Power Supply	<ul style="list-style-type: none">• 3000W Titanium level Redundant Power Supplies with PMBus
System Dimension	<ul style="list-style-type: none">• 7.0 x 17.2 x 29 / 178mm x 437mm x 737mm (H x W x D)

