

ACE® POWERWORKS MATRIX PM-B8SDSG

Product Description: The Ace Powerworks Matrix PM-B8SDSG is an 8U GPU server designed for AI, deep learning, and high-performance computing applications. It supports up to 8 double-width GPUs and dual AMD EPYC 9004 Series processors, providing exceptional performance and scalability.

Key Features:

- Processor: Dual AMD EPYC 9004 Series processors,
* This system supports AMD EPYC 9004/9005 Series processors up to 400W TDP.
(* AMD EPYC 9005 Series drop-in support requires board revision 2.x)
- GPU: Up to 8 onboard GPUs,
- CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
- GPU-GPU Interconnect: NVIDIA NVLink with NVSwitch
- Memory: 24 DIMM slots DDR5; up to 6TB 4800MT/s ECC LRDIMM/RDIMM
- Storage: 12 Hot-swap 2.5" NVMe drive bays + 2 hot-swap 2.5" SATA drive bays
- Power Supply: 6x 3000W redundant Titanium level power supplies
- Form Factor: 8U rackmount
- High density: 8U system for NVIDIA HGX H100/H200 8-GPU
- Networking: 8 NIC for GPU direct RDMA (1:1 GPU Ratio)

Applications:

- AI/Deep Learning Training
- High-performance computing (HPC)
- Climate and Weather Modeling
- Scientific simulations
- Industrial Automation, Retail



Built and tested under ISO9001:2000 compliant manufacturing facility in Des Plaines, IL
Freight Included and insured. FOB destination



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KEY SPECIFICATIONS:

Form Factor:	8U rackmount
Dimensions: Height:	Height: 14" (355.6 mm) Width: 17.2" (437 mm) Depth: 33.2" (843.28 mm)
Processor:	Dual AMD EPYC 9004/9005 Series processors up to 128C/256T
Supported GPUs:	Up to 8 double-width GPUs GPU Models: NVIDIA A40, NVIDIA RTX A6000, and other NVIDIA GPUs (Please inquire for more GPU Support information)
Motherboard:	Supermicro H13DSG-O-CPU-D
Chipset:	AMD SP5
Memory:	32 DIMM slots, supports DDR5 RDIMM/LRDIMM
Storage: Default:	Total 18 bays 8 x 3.5" hot-swappable SATA3 drive bays <ul style="list-style-type: none">• Front hot-swap 2.5" SATA drive bays• 4 front hot-swap 2.5" NVMe* drive bays• 12 front hot-swap 2.5" NVMe drive bays• (*NVMe support may require additional storage controller and/or cables)
Internal M.2:	1 M.2 NVMe slot (M-key)
RAID:	Not specified
Expansion Slots:	8 x PCIe 5.0 x16 double-width slots for GPUs 2 x PCIe 5.0 x16 slots for networking or storage controllers
Power Supply:	4 x 3000W Titanium level redundant power supplies
Operating System:	Supports various operating systems

ADDITIONAL FEATURES:

System Management:	Supermicro Server Manager (SSM) Supermicro Out of Band Management (OOB) IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Redfish API support
Security:	Trusted Platform Module (TPM) 2.0 and Silicon Root of Trust (RoT) – NIST 800-193 Compliant
Cooling System:	10 heavy duty fans with optimal fan speed control. Advanced cooling design with redundant fans
Networking:	2 x 10GBase-T LAN ports 1 x dedicated management port
Video:	1 VGA port

Warranty:

Duration: Standard Ace 3 Year warranty terms apply.
Optional Extended Warranty: 3-5 Year warranty options. *Max 3 Year warranty for GPUs.
Coverage: Parts and labor warranty.



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