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HGX B200 8-GPU AI Solution Optimized for Accelerated Computing and Generative AI

HGX B200 8-GPU AI Solution

Purpose-built for generative AI and high-performance computing, the AI server is built on Blackwell architecture using eight NVIDIA B200 Tensor Core GPUs, delivering 72 petaFLOPS of training and 144 petaFLOPS of inference. With a total of 1.4 TB of HBM3e memory across the GPUs, the system provides exceptional memory bandwidth, enabling efficient processing of large-scale generative AI, data analytics, and HPC workloads.

Application

- Generative AI
- Large Language Model (LLM)
- AI and Machine Learning
- High Performance Computing

Innovative Disaggregated Approach

The AI server can be paired with a single CPU head node server, creating a unified AI solution. This disaggregated GPU and CPU approach enhances flexibility, enabling you to select the CPU head node server that best suits your needs.
(Ingrasys head node solution: SV2221A/SV2221I)

High Expansion Capability

Adopting a one-GPU-to-one-NIC topology, the powerful server offers high expansion capability by accommodating 8 NICs, which enables fast interconnections between GPUs within a GPU cluster. In addition, its two-layer design features easy scalability up to 32 NVMe Drives and enhances thermal efficiency, allowing the server to deliver unprecedented performance and agility.

- NVIDIA HGX B200 8-GPU
- 32 x U.2 NVMe Drive Bays
- Up to 20 PCIe 5.0 x16 Slots
- 6+6 Redundancy, Platinum Level
- 12U Rackmount

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Specifications

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Supported GPU
NVIDIA HGX B200 8-GPU

Expansion Slots
20 x PCIe 5.0 x16 Slots

Storage
32 x Hot-swap U.2 NVMe Drive Bays

Front Panel
1 x Power LED, 1 x UID LED, 1 x Attention LED,
1 x 1GbE/RJ45 Management Port
1 x RJ45 Console Port

Form Factor
12U Rackmount
(4U IOB Sled with 6U GPU Sled)

Chassis Dimensions (H x W x D)
20.8" x 20.0"x 37.3"/
529.4mm x 508.0mm x 948.0mm

Management
1 x ASPEED AST2600

Power Supply
6+6 Redundant 3000W Platium Power Supplies

Fans
30 x 80*80mm for N+1 Cooling Redundancy

Certification
CE/FCC/RCM/BSMI/UL/
IECEE CB

Operating Temperature
10°C to 35°C (50°F to 95°F)

Non-operating Temperature
-40°C to 60°C (-40°F to 140°F)

Operating Relative Humidity
8% to 85%RH

Non-operating Relative Humidity
5% to 95%RH