



PRE-CONFIGURED BY ARC COMPUTE

Supermicro's NVIDIA HGX H100 GPU Servers

AS -8125GS-TNHR

OVERVIEW

The Supermicro AS-8125GS-TNHR is an 8U high-performance GPU server for AI and HPC workloads. It supports up to 8x NVIDIA HGX H100 (80GB) or H200 (141GB) GPUs with NVLink and NVSwitch, delivering massive memory and bandwidth for large-scale model training. With 24 DDR5 DIMM slots (6TB), 18 hot-swap NVMe/SATA drives, PCIe 5.0 expansion, and 6x 3000W Titanium PSUs, it is built for scalability, throughput, and datacenter reliability.

SYSTEM SPECIFICATIONS

Form Factor

- 8U Rackmount
 - Enclosure: 437 x 355.6 x 843.28mm (17.2" x 14" x 33.2")

GPU

- Up to 8x NVIDIA HGX H100 (80GB) or H200 (141GB)
- CPU-GPU: PCIe 5.0 x16
- GPU-GPU: NVLink® + NVSwitch™

Processors

- 2x 5th Gen Intel® Xeon® Platinum 8558P Processors
- 48 Cores, 97 Threads, 260M Cache, 2.70 GHz, 350 W

System Memory

- Slot Count: 24 DIMM slots
- Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMM

Storage

- 18 hot-swap drive bays:
 - 2x 2.5" SATA, 4x 2.5" NVMe, 12x 2.5" NVMe
- 1x M.2 NVMe boot slot

Warranty

- 3-Year Labour, 3-Year Parts, 1-Year Advanced Cross-Ship Under Limited Warranty
 - 3-Year On-Site NBD Service (available at additional cost)



PRIMARY USE CASES

- High Performance Computing
- AI/Deep Learning Training
- Industrial Automation
- Business Intelligence & Analytics
- Drug Discovery
- Climate and Weather Modeling
- Finance & Economics
- Healthcare

WORK WITH US

Expert Guidance: Our team specializes in AI, HPC, and data analytics and can tailor solutions to your exact needs.

Turnkey Deployment: We work with OEMs to streamline installation, configuration, and workload migration.

Superior Support: Global reach and top-tier customer service keep your systems running at peak performance.

