

GPU A+ Server AS -8125GS-TNHR

DP AMD 8U System with NVIDIA HGX H100/H200 8-GPU



More details here

Key Applications

High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Climate and Weather Modeling,

Key Features

- High density 8U system for NVIDIA® HGX™ H100/H200 8-GPU
Highest GPU communication using NVIDIA® NVLINK™ + NVIDIA® NVSwitch™
8 NIC for GPU direct RDMA (1:1 GPU Ratio);
- 24 DIMM slots DDR5; up to 6TB 4800MT/s ECC LRDIMM/RDIMM;
- Up to 8 PCIe 5.0 x16 LP + 4 PCIe 5.0 x16 FHFL slots;
- Flexible networking options;
- 12 Hot-swap 2.5" NVMe drive bays + 2 hot-swap 2.5" SATA drive bays
+ 4 hot-swap 2.5" NVMe drive bays (optional)
1 M.2 NVMe for boot drive only;
- 10 heavy duty fans with optimal fan speed control;
- 6x 3000W redundant Titanium level power supplies;



Form Factor

8U Rackmount
Enclosure: 437 x 355.6 x 843.28mm (17.2" x 14" x 33.2")
Package: 698 x 750 x 1300mm (27.5" x 29.5" x 51.2")

Processor

Dual Socket SP5
AMD EPYC™ 9004 Series Processors
Up to 128C/256T

GPU

Max GPU Count: 8 onboard GPUs
Supported GPU: NVIDIA SXM: HGX H100 8-GPU (80GB), HGX H200 8-GPU (141GB), HGX H200 8-GPU (141GB)
CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect: NVIDIA® NVLink® with NVSwitch™

System Memory

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

Drive Bays Configuration

Default: Total 18 bays

- 2 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)
M.2: 1 M.2 NVMe slot (M-key)

Expansion Slots

Default

- 8 PCIe 5.0 x16 LP slots
- 2 PCIe 5.0 x16 FHFL slots

Option A

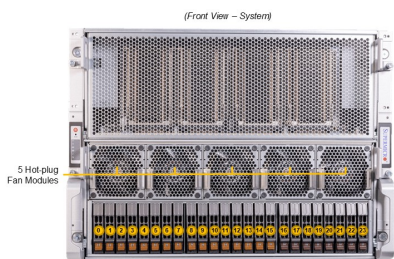
- 8 PCIe 5.0 x16 LP slots
- 4 PCIe 5.0 x16 FHFL slots

On-Board Devices

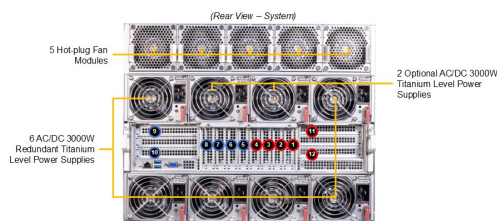
AMD SP5

Input / Output

1 VGA port



Drive Bay	Description
0 – 11	12x 2.5" Hot-swap NVMe Drive Bays (Default)
12 – 15	4x 2.5" Hot-swap NVMe Drive Bays (Optional)
16 – 17	2x 2.5" Hot-swap SATA Drive Bays (Default)
18 – 23	Not used



Slot	Description	Slot	Description
1	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs	7	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
2	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs	8	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
3	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs	9	PCIe 5.0 x16 (FHFL)
4	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs	10	PCIe 5.0 x16 (FHFL)
5	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs	11	PCIe 5.0 x16 (FHFL) (optional)
6	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs	12	PCIe 5.0 x16 (FHFL) (optional)

System Cooling	Fans: 10 heavy duty fans with optimal fan speed control
Power Supply	6x 3000W Redundant Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 7 +1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 225 lbs (102.1 kg) Net Weight: 166 lbs (75.3 kg) Available Color: Black front & silver body
Operating Environment	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 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	Super H13DSG-O-CPU-D
Chassis	CSE-GP801TS