GPU A+ Server AS -8125GS-TNHR

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

More details here

Key Applications

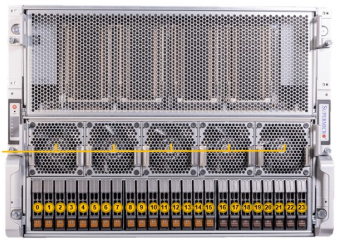
High Performance Computing, AI/Deep Learning Training, Industrial Automation, Climate and Weather Modeling,

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);
- Supports up to 24 DIMM Slots; 4800 MT/s 6TB DDR5 memory
  (Please check System Memory Section for detail);
- Up to 8 PCIe 5.0 x16 LP + 4 PCIe 5.0 x16 FHFL slots;
- Flexible networking options;
- Total of 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;
- Total of 6x (3+3) 3000W Redundant Titanium Level Power Supplies
  (Power supply full redundancy based on configuration and application load);

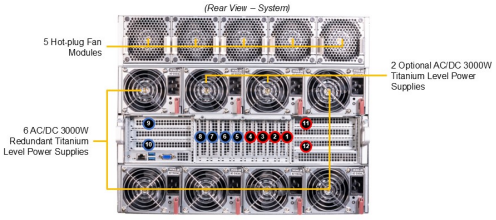
Form Factor	8U Rackmount Enclosure: 437 x 355.6 x 843.28mm (17.2" x 14" x 33.2") Package: 698 x 750 x 1300mm (27.5" x 29.5" x 51.2")
Processor	Dual Socket SP5 AMD EPYC™ 9004 Series Processors Up to 128C/256T
GPU	Max GPU Count: 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX H100 8-GPU (80GB), HGX H200 8-GPU (141GB) 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, please see the optional parts list for details) 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
Input / Output	1 VGA port

(Front View – System)



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

(Rear View – System)



	Slot Description
1	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
2	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
3	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
4	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
5	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
6	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs

	Slot Description
7	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
8	PCIe 5.0 x16 (LP) from PLX switch linked to GPUs
9	PCIe 5.0 x16 (FHFL)
10	PCIe 5.0 x16 (FHFL)
11	PCIe 5.0 x16 (FHFL) (optional)
12	PCIe 5.0 x16 (FHFL) (optional)

CPU1 CPU2

System Cooling	Fans: Up to 10 heavy duty fans with optimal fan speed control
Power Supply	6x 3000W Redundant (3 + 3) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); 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: 7 +1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory 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**