GPU A+ Server AS -8125GS-TNHR

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

More details here
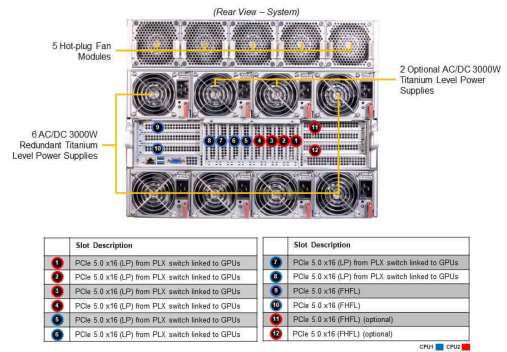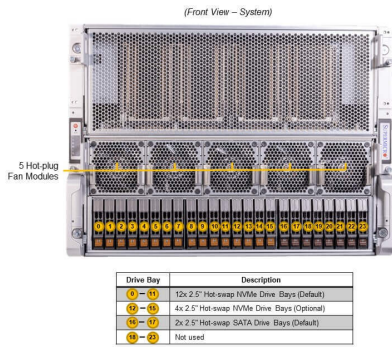
Key Applications

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

Key Features

- High density 8U system with NVIDIA® HGX™ H100 8-GPU
  Highest GPU communication using NVIDIA® NVLINK™ + NVIDIA® NVSwitch™
  8 NIC for GPU direct RDMA (1:1 GPU Ratio);
- 24 DIMM Slots; Up to 6TB DRAM; 4800 ECC DDR5 LRDIMM;RDIMM;;
- 8 PCIe Gen 5.0 X16 LP, and up to 4 PCIe Gen 5.0 X16 FHFL Slots;
- Flexible networking options;
- 2x 2.5" Hot-swap SATA drive bays
  1 M.2 NVMe for boot drive only
  up to 16x 2.5" Hot-swap NVMe drive bays (12 by default + 4 optional);
- 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: Up to 8 onboard GPU(s) Supported GPU: NVIDIA SXM: HGX H100 8-GPU (80GB) 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/LRDIMM
Drive Bays Configuration	Default: Total 18 bay(s) • 2 front hot-swap 2.5" SATA drive bay(s) • 4 front hot-swap 2.5" NVMe* drive bay(s) • 12 front hot-swap 2.5" NVMe drive bay(s) (*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(s) (M-key)
Expansion Slots	Default • 8 PCIe 5.0 x16 LP slot(s) • 2 PCIe 5.0 x16 FHFL slot(s)
On-Board Devices	AMD SP5
Input / Output	1 VGA port(s)

(Front View – System)

5 Hot-plug Fan Modules

Drive Bay	Description
(9) – (11)	12x 2.5" Hot-swap NVMe Drive Bays (Default)
(12) – (16)	4x 2.5" Hot-swap NVMe Drive Bays (Optional)
(16) – (17)	2x 2.5" Hot-swap SATA Drive Bays (Default)
(18) – (22)	Not used

(Rear View – System)

5 Hot-plug Fan Modules

2 Optional AC/DC 3000W Titanium Level Power Supplies

6 AC/DC 3000W Redundant Titanium Level Power Supplies

	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)

CPU1 ▮ CPU2 ▮

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 ~ 35°C (50°F ~ 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**