

GPU A+ Server AS -4125GS-TNHR2-LCC

DP AMD 4U Liquid-Cooled System with NVIDIA HGX H100/H200 8-GPU (onsite service is required for liquid-cooling)



Key Applications

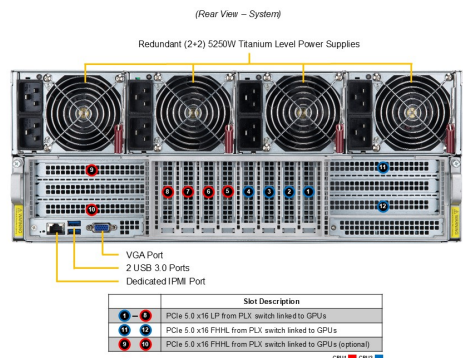
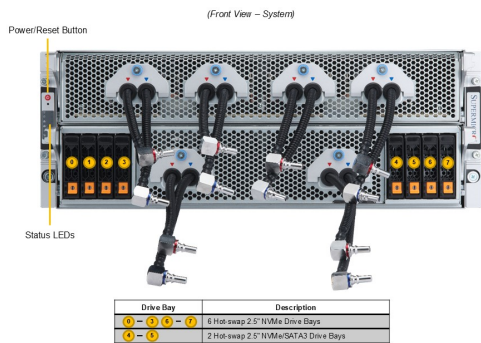
HPC, AI / Deep Learning, Deep Learning/AI/Machine Learning Development, Artificial Intelligence,

Key Features

- High density 4U system with NVIDIA® HGX™ H100/H200 8-GPU
8x NVMe for NVIDIA GPUDirect Storage
8x NIC for NVIDIA GPUDirect RDMA (1:1 GPU Ratio)
Highest GPU communication using NVIDIA® NVLink®;
- Dual-Socket, AMD EPYC™ 9004/9005 Series Processors;
- Supports up to 24 DIMMs slots, 6000 MT/s 6TB DDR5 memory
(Please check System Memory Section for detail);
- 8x PCIe 5.0 x16 LP slots
2x PCIe 5.0 x16 FHHL slots, 2 PCIe 5.0 x16 FHHL slots (optional);
- Total of 4x 5250W (2+2) Redundant Titanium Level power supplies
(Power supply full redundancy based on configuration and application load);



Form Factor	4U Rackmount Enclosure: 449 x 174 x 842mm (17.6" x 6.85" x 33.2") Package: 1280 x 410 x 730mm (50.39" x 16.14" x 28.7")
Processor	Dual processor(s) AMD EPYC™ 9004/9005 Series Processors (* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x) 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 (AMD EPYC™ 9004 Series Processor) Max Memory (1DPC): Up to 6TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)
Drive Bays Configuration	Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" NVMe drive bays M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	Default <ul style="list-style-type: none"> • 8 PCIe 5.0 x16 (in x16) LP slots • 2 PCIe 5.0 x16 (in x16) FHHL slots Option A* <ul style="list-style-type: none"> • 8 PCIe 5.0 x16 (in x16) LP slots • 4 PCIe 5.0 x16 (in x16) FHHL slots
On-Board Devices	AMD SP5
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 Type-A ports(Rear) Video: 1 VGA port



System Cooling	<p>Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control</p> <p>Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)</p>
Power Supply	4x 5250W Redundant (2 + 2) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	<p>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!</p>
PC Health Monitoring	<p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>7 +1 Phase-switching voltage regulator</p> <p>FAN: Fans with tachometer monitoring</p> <p>Status monitor for speed control</p> <p>Temperature: Monitoring for CPU and chassis environment</p> <p>Thermal Control for fan connectors</p>
Dimensions and Weight	<p>Weight: Gross Weight: 138.89 lbs (63 kg)</p> <p>Net Weight: 80.03 lbs (53 kg)</p> <p>Available Color: Silver</p>
Operating Environment	<p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p>
Motherboard	Super H13DSG-OM
Chassis	CSE-GP401TS-R000NP