

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

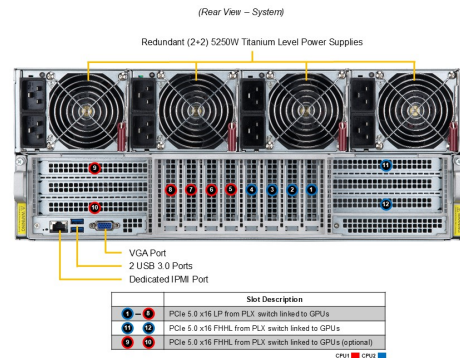
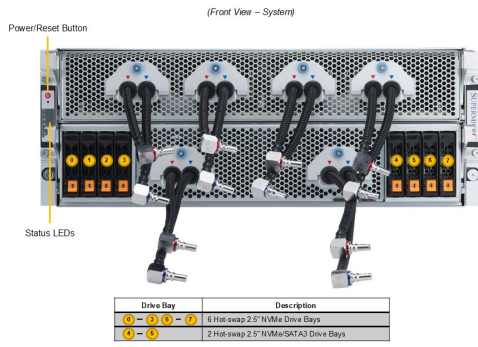
Artificial Intelligence (AI), HPC, AI / Deep Learning, Deep Learning/AI/Machine Learning Development,

Key Features

- High density 4U system with NVIDIA® HGX™ H100/H200 8-GPU
8 NVMe for NVIDIA GPUDirect Storage
8 NIC for NVIDIA GPUDirect RDMA (1:1 GPU Ratio)
Highest GPU communication using NVIDIA® NVLink®;
- Dual-Socket, AMD EPYC™ 9004/9005 Series Processors;
- 24 DIMM slots Up to 6TB: 4800 ECC DDR5;
- 8 PCIe 5.0 x16 LP slots
2 PCIe 5.0 x16 FHHL slots, 2 PCIe 5.0 x16 FHHL slots (optional);
- 4x 5250W(2+2) Redundant Power Supplies, Titanium Level;



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|--------------------------|---|
| 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 |
| Drive Bays Configuration | Default: Total 8 bays • 8 front hot-swap 2.5" NVMe drive bays M.2: 1 M.2 NVMe slot (M-key) |
| Expansion Slots | Default • 8 PCIe 5.0 x16 (in x16) LP slots • 2 PCIe 5.0 x16 (in x16) FHHL slots Option A* • 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 |



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| System Cooling | Fans: 4x 8cm heavy duty fans with optimal fan speed control Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional) |
| Power Supply | 4x 5250W Redundant (2 + 2) Titanium (certification pending) 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: 138.89 lbs (63 kg) Net Weight: 80.03 lbs (53 kg) Available Color: Silver |
| 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-OM |
| Chassis | CSE-GP401TS-R00NP |