

# 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

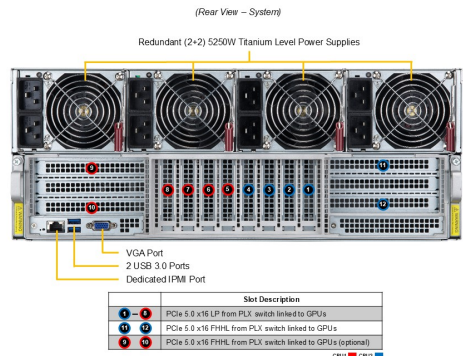
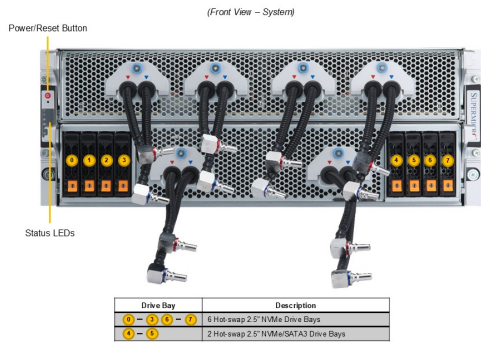
Artificial Intelligence (AI), HPC, AI / Deep Learning, Deep Learning/AI/Machine Learning Development,

## 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;



Form Factor	4U Rackmount Enclosure: 449 x 174 x 842mm (17.6" x 6.85" x 33.2") Package: 1216 x 330 x 670mm (48" x 13" x 26.4")
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: Up to 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 <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" NVMe drive bays</li> </ul> M.2: 1 M.2 NVMe slot (M-key)
Expansion Slots	Default <ul style="list-style-type: none"> <li>• 8 PCIe 5.0 x16 (in x16) LP slots</li> <li>• 2 PCIe 5.0 x16 (in x16) FHHL slots</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 8 PCIe 5.0 x16 (in x16) LP slots</li> <li>• 4 PCIe 5.0 x16 (in x16) FHHL slots</li> </ul>
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: 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 (certification pending) 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 ~ 35°C (50°F ~ 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	<b>CSE-GP401TS-R000NP</b>