

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

DP AMD 4U Liquid-Cooled System with NVIDIA HGX H100 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

- Dual-Socket, AMD EPYC™ 9004 Series Processors;
- High density 4U system with NVIDIA® HGX™ H100 8-GPU  
8 NVMe for NVIDIA GPUDirect Storage  
8 NIC for NVIDIA GPUDirect RDMA (1:1 GPU Ratio)  
Highest GPU communication using NVIDIA® NVLink®;
- 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 (17.7" x 6.85" x 33.2") Package: 1216 x 330 x 670mm (48" x 13" x 26.4")
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 8 bay(s) • 8 front hot-swap 2.5" NVMe drive bay(s) M.2: 1 M.2 NVMe slot(s) (M-key)
Expansion Slots	Default • 8 PCIe 5.0 x16 (in x16) LP slot(s) • 2 PCIe 5.0 x16 (in x16) FHHL slot(s) Option A* • 8 PCIe 5.0 x16 (in x16) LP slot(s) • 4 PCIe 5.0 x16 (in x16) FHHL slot(s)
On-Board Devices	Chipset: AMD SP5 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s) USB: 2 USB 3.0 Type-A port(s) (Rear) Video: 1 VGA port(s)



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 power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
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 ~ 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-OM
Chassis	<b>CSE-GP401TS-R000NP</b>