GPU A+ Server AS -4125GS-TNMR2-LCC

DP AMD 4U Liquid-Cooled System with AMD Instinct™ MI300X 8-GPU (onsite service is required for liquid-cooling)

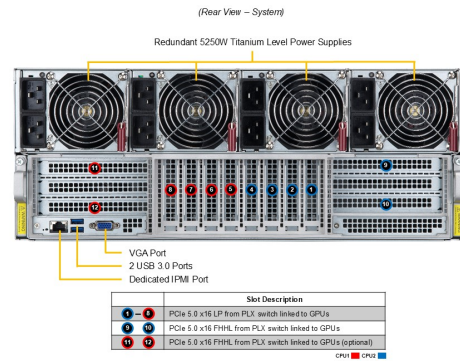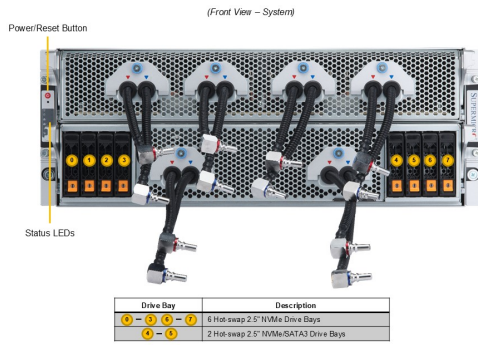More details here

Key Applications

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

Key Features

- Dual Socket SP5 AMD EPYC™ 9004/9005 Series Processors up to 400W with liquid cooling;
- AMD Instinct MI300X 8-GPU;
- Up to 24 DIMMs supporting up to 6TB DDR5-4800 in 1DPC;
- 8 PCIe 5.0 x16 LP slots, 2 PCIe 5.0 x16 FHHL slots, 2 PCIe 5.0 x16 FHHL slots (optional);
- Up to 8 front hot-swap 2.5" NVMe drive bays;
- 4 Redundant 5250W Titanium (certification pending) Level power supplies;
- 4U Rackmount chassis with 33.2" (842mm) depth;

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 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: AMD: Instinct MI300X Accelerators CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: AMD Infinity Fabric™ Link
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

(Front View – System)

Power/Reset Button

Status LEDs

Drive Bay	Description
⓿ – ❸ ❺ – ❼	6 Hot-swap 2.5" NVMe Drive Bays
❹ – ❺	2 Hot-swap 2.5" NVMe/SATA3 Drive Bays

(Rear View – System)

Redundant 5250W Titanium Level Power Supplies

VGA Port
2 USB 3.0 Ports
Dedicated IPMI Port

Slot Description	
❶ – ❽	PCIe 5.0 x16 LP from PLX switch linked to GPUs
❾ ❿	PCIe 5.0 x16 FHHL from PLX switch linked to GPUs
⓫ ⓬	PCIe 5.0 x16 FHHL from PLX switch linked to GPUs (optional)

CPU1 ▉ CPU2 ▉

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

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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 ~ 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

CSE-GP401TS-R000NP