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)

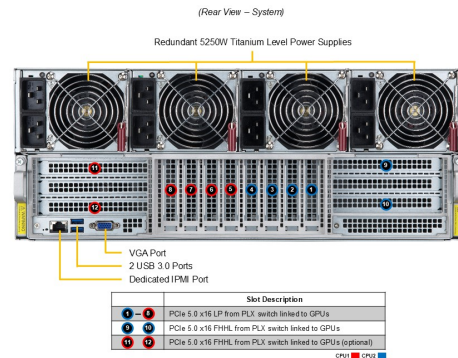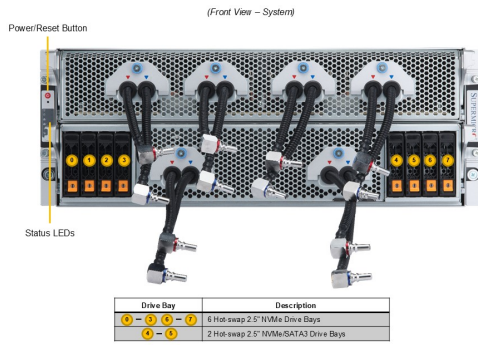More details here

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 (17.6" 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: 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
0 – 3 5 – 7	6 Hot-swap 2.5" NVMe Drive Bays
4 – 5	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	
1 – 8	PCIe 5.0 x16 LP from PLX switch linked to GPUs
9 10	PCIe 5.0 x16 FHHL from PLX switch linked to GPUs
11 12	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
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-R000NP**