GPU SuperServer AS -8126GS-TNMR

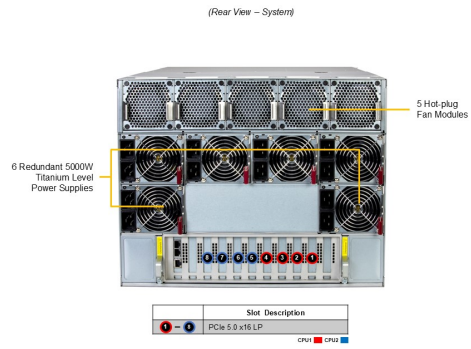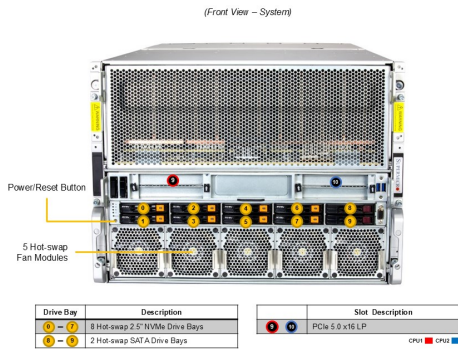DP AMD 8U System with AMD Instinct™ MI325X/MI350X 8-GPU

Key Applications

High Performance Computing, Database Processing and High Density Storage, AI/Deep Learning Training, Industrial Automation, Machine Learning (ML), Data center, Climate and Weather Modeling,

Key Features

- Dual Socket SP5 AMD EPYC™ 9005/9004 Series Processors up to 500W with air cooling;
- 8x MI325x or MI350x onboard OAM GPU Accelerator Cards;
- Supports up to 24 DIMMs slots, 6400 MT/s 6TB DDR5 memory in 1DPC (Please check System Memory Section for detail);
- 8x front hot-swap 2.5" NVMe + 2 front hot-swap 2.5" SATA;
- Total of 8 PCIe 5.0 x16 LP + 2 PCIe 5.0 x16 FHHL slots;
- Total of 6 (3+3) Titanium Level Efficiency 5250W Power Supplies (Power supply full redundancy based on configuration and application load);

Form Factor	8U Rackmount Enclosure: 447 x 356 x 843mm (17.6" x 13.8" x 33.2") Package: 1280 x 660 x 730mm (50.39" x 26" x 28.74")
Processor	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors Up to 384C/768T
GPU	Max GPU Count: 8 onboard GPUs 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 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)

Drive Bays Configuration	Default: Total 10 bays
	  • 2 front hot-swap 2.5" SATA drive bays
	  • 8 front hot-swap 2.5" NVMe drive bays
	M.2: 2 M.2 NVMe slots (M-key)

Expansion Slots	PCI-Express (PCIe) Configuration: Default
	  • 8 PCIe 5.0 x16 LP slots
	  • 2 PCIe 5.0 x16 FHHL slots
	M.2: 2 M.2 PCIe 3.0 x4 NVMe slots (M-key 22110(default))

On-Board Devices	Chipset: System on Chip Network Connectivity: 2 RJ45 10GbE with Intel® X710
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 Type-A ports(Rear) Video: 1 VGA port TPM: 1 TPM header

(Front View – System)

(Rear View – System)

Power/Reset Button

5 Hot-swap
Fan Modules

5 Hot-plug
Fan Modules

6 Redundant 5000W
Titanium Level
Power Supplies

Drive Bay	Description
0 – 7	8 Hot-swap 2.5" NVMe Drive Bays
8 – 9	2 Hot-swap SATA Drive Bays

	Slot Description
A B	PCIe 5.0 x16 LP
	CPU1 ☐ CPU2 ☐

	Slot Description
1 – 8	PCIe 5.0 x16 LP
	CPU1 ☐ CPU2 ☐

System Cooling	Fans: Up to 10 heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	6x 5250W Redundant (3 + 3) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB 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: 158.73 lbs (72 kg) Net Weight: 105.82 lbs (48 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 H14DSG-OD**
Chassis	**CSE-GP805TS-R000NPF**