AMD EPYC (H14) | 8U Rackmount | GPU Server

Supermicro AS-8126GS-TNMR

AMD EPYC (H14) · 8U Rackmount · GPU Server Server

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Form Factor **8U Rackmount**	CPU **AMD EPYC™ 9005/9004 Series Processors**
GPU **8 onboard GPUs**	Memory **Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)**

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
Platform	AMD EPYC (H14)
CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Max GPU Count	8 onboard GPUs
Supported GPU	AMD: Instinct™ MI325X Accelerators, Instinct™ MI350X Accelerators
Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)
Drive Bays	Default: Total 10 bays2 front hot-swap 2.5" SATA drive bays 8 front hot-swap 2.5" NVMe drive bays
Fans	Up to 14 heavy duty fans with optimal fan speed control
Power Supply	6x 5250W Redundant (3 + 3) Titanium Level (96%) power supplies

Full Specifications — AS-8126GS-TNMR

Product SKUs

Part numbers	AS -8126GS-TNMR

Motherboard

Motherboard	A+ Motherboard® H14DSG-OD

Processor

CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Core Count	Up to 384C/768T
Note	Supports up to 500W TDP CPUs

GPU

Max GPU Count	8 onboard GPUs
Supported GPU	AMD: Instinct™ MI325X Accelerators, Instinct™ MI350X Accelerators View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	AMD Infinity Fabric™ Link

System Memory

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) View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	2 RJ45 10GbE with Intel® X710 View AOC Options

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

System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM

Management

Software	SuperCloud Composer® (SCC) 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!
Power configurations	Power-on mode for AC power recovery ACPI Power Management

Security

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

PC Health Monitoring

CPU	7 +1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory
Fan	Fans with tachometer monitoring Status monitor for speed control
Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors

Certifications

Operating Systems	Oracle Linux 9.6, RHEL 10.0 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	8U Rackmount
Model	CSE-GP805TS-R000NPF

Dimensions and Weight

Height	13.8" (356 mm)
Width	17.6" (447 mm)
Depth	33.2" (843 mm)
Package	26" (H) x 28.74" (W) x 50.39" (D)
Weight	Gross Weight: 336 lbs (152.4 kg) Net Weight: 288 lbs (130.635 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID/ Reset button
LED	HDD activity Network activity LEDs System information (overheat/UID) UID

Expansion Slots

PCI-Express (PCIe) Configuration	Default8 PCIe 5.0 x16 LP slots 2 PCIe 5.0 x16 FHHL slots View AOC Options
M.2	2 M.2 PCIe 3.0 x4 NVMe slots (M-key 22110(default))

Drive Bays / Storage

Drive Bays Configuration	Default: Total 10 bays2 front hot-swap 2.5" SATA drive bays 8 front hot-swap 2.5" NVMe drive bays View NVMe Options View Drive Options
M.2	2 M.2 NVMe slots (M-key) View M.2 Options

System Cooling

Fans	Up to 14 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

Dimension (WxHxL)	106.5 x 82.1 x 245.3 mm
Input	5250W: 200-240Vac / 50-60Hz
+12V	Max: 125A / Min: 0A (200Vac-240Vac)

12V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

Operating Environment

Environmental Spec.	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)