AMD EPYC (H14) | 4U Rackmount | GPU Server

Supermicro AS-4126GS-NMR-LCC

AMD EPYC (H14) · 4U Rackmount · GPU Server · Liquid Cooling Server

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Form Factor **4U Rackmount**	CPU **AMD EPYC™ 9005/9004 Series Processors**
GPU **Up to 8 onboard GPUs**	Memory **Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)**

Key Features

- Dual processor(s) AMD EPYC™ 9005/9004 Series Processors up to 500W with Liquid Cooling
- Supports up to 24 DIMMs slots, 6400 MT/s 6TB DDR5 in 1DPC(Please check System Memory Section for detail)
- Supports up to 8 PCIe 5.0 x16 LP + 2 PCIe 5.0 x16 FHHL slots
- 2 RJ45 10GbE
- Total of 8 front hot-swap 2.5" NVMe drive bays
- 8x MI325x or MI355x onboard OAM GPU accelerator modules
- Total of 4 Redundant (2+2) 6600W Titanium Level power supplies(Power supply full redundancy based on configuration and application load)

Form Factor	4U Rackmount
Platform	AMD EPYC (H14)
CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Max GPU Count	Up to 8 onboard GPUs
Supported GPU	AMD: Instinct™ MI325X Accelerators, Instinct™ MI355X 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 8 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays
Fans	Up to 5x 6cm heavy duty fans with optimal fan speed control
Power Supply	4x 6600W Redundant (2 + 2) Titanium Level (96%) power supplies

Full Specifications — AS-4126GS-NMR-LCC

Product SKUs

Part numbers	AS -4126GS-NMR-LCC

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 (Liquid Cooled)

GPU

Max GPU Count	Up to 8 onboard GPUs
Supported GPU	AMD: Instinct™ MI325X Accelerators, Instinct™ MI355X 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!

Security

Hardware	Trusted Platform Module (TPM) 2.0

PC Health Monitoring

CPU	Monitors for CPU Cores, Chipset Voltages, Memory
Fan	Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors 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	4U Rackmount
Model	CSE-GP403TS-R000NP2

Dimensions and Weight

Height	6.85" (174 mm)
Width	17.6" (449 mm)
Depth	35.25" (895.35 mm)
Package	16.14" (H) x 28.7" (W) x 50.39" (D)
Weight	Gross Weight: 140 lbs (63.5 kg) Net Weight: 80 lbs (53 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID/ Reset button
LED	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 NVMe slots (M-key 22110(default))

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 2.5" PCIe 5.0 x4 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 5x 6cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud
Liquid Cooling	Direct to Chip (D2C) Cold Plate

Power Supply

4x 6600W Redundant (2 + 2) Titanium Level (96%) power supplies

Dimension (WxHxL)	106.5 x 82.1 x 245.3 mm
Input	5900W: 200-207.9Vac / 50-60Hz 6000W: 208-219.9Vac / 50-60Hz 6300W: 220-229.9Vac / 50-60Hz 6500W: 230-238.9Vac / 50-60Hz 6600W: 239-240Vac / 50-60Hz
+12V	Max: 130A / Min: 0A (200Vac-207.9Vac) Max: 130A / Min: 0A (208Vac-219.9Vac) Max: 130A / Min: 0A (220Vac-229.9Vac) Max: 130A / Min: 0A (230Vac-238.9Vac) Max: 130A / Min: 0A (239Vac-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)