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

Supermicro AS-4126GS-NB3RT-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 **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 Series Processors up to 500W with Liquid Cooling
- NVIDIA HGX B300 Liquid cooling 8-GPU with 5th Generation NVLink® 1.8TB/s, 2.3TB of HBM3e GPU memory per system
- 8 NVIDIA ConnectX®-8 SuperNICs, up to 800Gb/s, up to two dual-port NVIDIA BlueField®-3 DPUs, and 2 RJ45 10GbE (default)
- 24 DIMMs, with up to 6TB at 6400MT/s DDR5 memory (Please check System Memory Section for detail)
- Up to 2 PCIe 5.0 x16 FHHL slots
- 8 Hot-swap E1.S NVMe storage drive bays and 2 M.2 NVMe boot drives
- 4U Rackmount chassis with 39.03" (896.8mm) depth
- Total of 4x 6600W Redundant (2 + 2) 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	8 onboard GPUs
Supported GPU	NVIDIA SXM: HGX B300 8-GPU (288GB)
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 E1.S PCIe 5.0 x4 NVMe drive bays
Fans	Up to 4 Hot-swappable rear fans with optimal fan speed control 80x80x80mm Fan(s)

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

Full Specifications — AS-4126GS-NB3RT-LCC

Product SKUs

Part numbers	AS -4126GS-NB3RT-LCC

Motherboard

Motherboard	A+ Motherboard® H14DSG-OM

Processor

CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Core Count	Up to 192C/384T; Up to 384MB Cache per CPU
Note	Supports up to 500W TDP CPUs (Liquid Cooled)

GPU

Max GPU Count	8 onboard GPUs
Supported GPU	NVIDIA SXM: HGX B300 8-GPU (288GB) View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	NVIDIA® NVLink™ with NVSwitch™

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	8 OSFP 800GbE 2 RJ45 10GbE View AOC Options

Input / Output

USB	1 USB 3.0 Type-A port (Front) 1 USB 2.0 Type-A port (Front)
Video	1 VGA port 1 mini-DP 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	Automatic Firmware Recovery Cryptographically Signed Firmware Runtime BMC Protections Secure Boot Secure Firmware Updates Supply Chain Security: Remote Attestation

PC Health Monitoring

CPU	8+4 Phase-switching voltage regulator 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	ESXi 8.0U3, ESXi 9.0, RHEL 10.0 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	4U Rackmount
Model	CSE-GP405LTS-R000NP

Dimensions and Weight

Height	6.85" (174 mm)
Width	17.6" (448 mm)
Depth	39.03" (896.8 mm)
Package	16.14" (H) x 31.29" (W) x 54.92" (D)
Weight	Gross Weight: 253 lbs (115 kg) Net Weight: 203 lbs (92 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID
LED	HDD activity LAN1 activity LAN2 activity Power Fail Power status

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x16 FHHL slots Option A2 PCIe 5.0 x16 FHHL slots 2 PCIe 5.0 x16 HHHL slots View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap E1.S PCIe 5.0 x4 NVMe drive bays View NVMe Options
M.2	2 M.2 NVMe slots (M-key 2280/22110; RAID support via S3808N controller) View M.2 Options

System Cooling

Fans	Up to 4 Hot-swappable rear fans with optimal fan speed control 80x80x80mm Fan(s)
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)