AMD EPYC (H14) | 5U Rackmount | GPU Server

Supermicro AS-5126GS-TNRT

AMD EPYC (H14) · 5U Rackmount · GPU Server Server

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Form Factor **5U Rackmount**	CPU **AMD EPYC™ 9005/9004 Series Processors**
GPU **Up to 8 double-width 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 Series Processors up to 500W with air cooling
- Supports up to 24 DIMM slots, 6400 MT/s 6TB DDR5 in 1DPC(Please check System Memory Section for detail)
- Total of 9 PCIe 5.0 x16 FHFL slots(If NVMe drives are disabled, then can be used as 10th PCIe 5.0 x16 FHFL slot)- Option A
- Supports up to 8 double-width PCIe GPU accelerator cards
- Dual front hot-swap 2.5" SATA + 4 front hot-swap 2.5" NVMe drive bays(The PCIe signal for 4 NVMe drives can be re-directed for PCIe slot8 enablement)
- Total of 6x 2700W Redundant (3+3 or 4+2) Titanium Level power supplies(3+3 under 8100 Watt, 4+2 under 10,800 Watt)(Power supply redundancy based on configuration and application load)

Form Factor	5U Rackmount
Platform	AMD EPYC (H14)
CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Max GPU Count	Up to 8 double-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, H200 NVL (141GB), L40S, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition
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 6 bays2 front hot-swap 2.5" SATA drive bays 4 front hot-swap 2.5" NVMe drive bays
Fans	Up to 10 heavy duty fans with optimal fan speed control
Power Supply	6x 2700W Redundant (4 + 2) Titanium Level (96%) power supplies

Full Specifications — AS-5126GS-TNRT

Product SKUs

Part numbers	AS -5126GS-TNRT AS -5126GS-TNRT-01-G2 Gold Series version with pre-configured components

Motherboard

Motherboard	A+ Motherboard® H14DSG-O-CPU

Processor

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

GPU

Max GPU Count	Up to 8 double-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, H200 NVL (141GB), L40S, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition AMD PCIe: AMD Instinct™ MI350P View GPU Options
CPU-GPU Interconnect	Direct Attached
GPU-GPU Interconnect	NVIDIA® NVLink™ Bridge (optional), AMD Infinity Fabric™ Link (optional)

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

SATA	SATA (6Gbps)
Network Connectivity	2 RJ45 10GbE View AIOM Options View AOC Options

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports

USB	2 ports (rear)
Video	1 VGA port

System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM

Management

Software	SuperCloud Composer® (SCC) Supermicro Server Manager (SSM) Supermicro Update Manager (SUM) 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 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	Turin: Oracle Linux 10.0, RHEL 9.6, RHEL 10.0, RHEL AI 3.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	5U Rackmount
Model	CSE-528G2TS-R000NDP

Dimensions and Weight

Height	8.75" (222.5 mm)
Width	17.2" (438 mm)
Depth	31" (786.1 mm)
Package	17.32" (H) x 28.34" (W) x 42.51" (D)
Weight	Gross Weight: 100 lbs (45.3 kg) Net Weight: 65.5 lbs (29.7 kg)
Available Color	Black Front & Silver Body

Expansion Slots

PCI-Express (PCIe) Configuration	Default9 PCIe 5.0 x16 FHFL double-width slots Option A10 PCIe 5.0 x16 FHFL double-width slots View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 6 bays2 front hot-swap 2.5" SATA drive bays 4 front hot-swap 2.5" NVMe drive bays Option A: Total 2 bays2 front hot-swap 2.5" SATA drive bays View NVMe Options View Drive Options
M.2	1 M.2 PCIe 3.0 x4 NVMe slot (M-key) View M.2 Options

System Cooling

Fans	Up to 10 heavy duty fans with optimal fan speed control

Power Supply

6x 2700W Redundant (4 + 2) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 203 mm
Input	2700W: 200-240Vac / 50-60Hz 2700W: 240-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 225A / Min: 0A (200Vac-240Vac) Max: 225A / Min: 0A (240Vdc-240Vdc)
12V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)

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)

Environmental / Recycling

Recycle	Return Server-End of Life Product