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

Supermicro AS-8126GS-NB3RT

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

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Form Factor	CPU
8U Rackmount	AMD EPYC™ 9005 Series Processors
GPU	**Memory**
8 onboard GPUs	Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM

Key Features

- Dual AMD EPYC™ 9005/9004 Series Processors
- NVIDIA HGX B300 8-GPU with 5th Generation NVLink® 1.8TB/s, 2.3TB of HBM3e GPU memory per system
- 24 DIMMs, with up to 6TB at 6400MT/s DDR5 memory(Please check System Memory Section for detail)
- 8 Hot-swap E1.S NVMe storage drive bays and 2 M.2 NVMe boot drives
- 8 NVIDIA ConnectX®-8 SuperNICs, up to 800Gb/s, up to two dual-port NVIDIA BlueField®-3 DPUs
- 6x 6600W Redundant (3 + 3) Titanium Level (96%) 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 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 4800MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap E1.S NVMe drive bays
Fans	Up to 12 heavy duty fans with optimal fan speed control
Power Supply	6x 6600W Redundant (3 + 3) Titanium Level (96%) power supplies

Full Specifications — AS-8126GS-NB3RT

Product SKUs

Part numbers	AS -8126GS-NB3RT AS -8126GS-NB3RT-01-G2 Gold Series version with pre-configured components

Motherboard

Motherboard	A+ Motherboard® H14DSG-OM

Processor

CPU	Dual processor(s) AMD EPYC™ 9005 Series Processors
Core Count	Up to 384C/768T
Note	Supports up to 500W TDP CPUs (Air 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 4800MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM 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

System BIOS

BIOS Type	AMI 64MB UEFI

Management

Software	SuperCloud Composer® (SCC) Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New! SFT-DCMS-SINGLE
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	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, Oracle Linux 9.6, RHEL 10.0 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	8U Rackmount
Model	CSE-GP807TS-R000NP

Dimensions and Weight

Height	13.8" (356 mm)
Width	17.6" (449 mm)
Depth	37.4" (950 mm)
Package	26.38" (H) x 28.74" (W) x 50.39" (D)
Weight	Gross Weight: 302 lbs (137 kg) Net Weight: 263 lbs (119 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID
LED	HDD activity LAN1 activity LAN2 activity Power Fail Power status System information (overheat/UID)

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x16 FHHL slots Option A*2 PCIe 5.0 x16 FHHL slots (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.) View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap E1.S NVMe drive bays View NVMe Options
M.2	2 M.2 NVMe slots (M-key) View M.2 Options

System Cooling

Fans	Up to 12 heavy duty fans with optimal fan speed control

Power Supply

6x 6600W Redundant (3 + 3) 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)