AMD EPYC (H14) | 2U Rackmount | Server

Supermicro AS-2126HS-TN

AMD EPYC (H14) · 2U Rackmount Server

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Form Factor **2U Rackmount**	CPU **AMD EPYC™ 9005/9004 Series Processors**
GPU **Up to 3 double-width GPUs**	Memory **Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)**

Key Features

- Dual AMD EPYC™ 9005/9004 Series Processors
- Support up to DDR5 24 DIMM slots (1DPC), speed up to 6400MT/s(Please check System Memory Section for detail)
- Optional PCIe slot configurations up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 slots or mix and match
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible)
- Up to 24 front hot-swap 2.5" NVMe/SATA drive bays2 M.2 PCIe 3.0 NVMe slots
- Capabilities for GPU and CXL 2.0 support
- Dual 1600W / 2000W / 2600W Redundant Titanium Level power supplies(Power supply full redundancy based on configuration and application load)

Form Factor	2U Rackmount
Platform	AMD EPYC (H14)
CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Max GPU Count	Up to 3 double-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, A16, L4, L40, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 2000 Ada, RTX 4500 Ada, RTX 5000 Ada, RTX 6000 Ada Generation
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" NVMe*/SATA* drive bays
Fans	Up to 6 counter-rotating 60x60x56mm Fan(s)
Power Supply	2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — AS-2126HS-TN

Product SKUs

Part numbers	AS -2126HS-TN AS -2126HS-TN-01-G3 Gold Series version with pre-configured components AS -2126HS-TN-01-G2 Gold Series version with pre-configured components

Motherboard

Motherboard	A+ Motherboard® H14DSH

Processor

CPU	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors
Core Count	Up to 384C/768T
Note	Supports up to 500W TDP CPUs * *Air Cooled CPUs with TDP over 400W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 3 double-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, A16, L4, L40, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 2000 Ada, RTX 4500 Ada, RTX 5000 Ada, RTX 6000 Ada Generation AMD PCIe: Instinct™ MI210 View GPU Options
GPU-GPU Interconnect	PCIe

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	Via AIOM View AIOM Options View AOC Options
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 ports (rear)
Video	1 VGA port
TPM	1 TPM Onboard/port 80

System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM
BIOS Features	Plug and Play (PnP) UEFI 2.8 USB Keyboard support ACPI 6.5 SMBIOS 3.7 or later

Management

Software	SuperCloud Composer® (SCC) Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) KVM with dedicated LAN IPMI 2.0 Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New! IPMIView
Power configurations	ACPI/APM Power Management Power-on mode control for AC power loss recovery Power button override mechanism,

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

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
Voltage	System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support

Certifications

Operating Systems	Genoa: RHEL 9.4, RHEL 10.0, Windows Server 2022, Windows Server 2025 Turin: Oracle Linux 9.4, RHEL 9.4, RHEL 10.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
Enterprise Solutions	VMWare vSAN Microsoft Azure Local

Chassis

Form Factor	2U Rackmount
Model	CSE-HS201-R000NFP

Dimensions and Weight

Height	3.5" (88.9 mm)
Width	17.2" (437 mm)
Depth	31.74" (806.2 mm)
Package	9.96" (H) x 26.46" (W) x 43.31" (D)
Weight	Gross Weight: 75 lbs (34 kg) Net Weight: 45 lbs (20.5 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID button
LED	HDD activity LAN1 activity Power status System information

Expansion Slots

PCI-Express (PCIe) Configuration	Option A*4 PCIe 5.0 x16 FHFL double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 4 PCIe 5.0 x16 FHFL double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option B*8 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 8 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) (*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
CXL Support	Up to 4 CXL 2.0 x16 devices

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 2.5" NVMe*/SATA* drive bays 8 front hot-swap 2.5" NVMe*/SATA* drive bays Option A: Total 24 bays24 front hot-swap 2.5" NVMe*/SATA* drive bays 24 front hot-swap 2.5" NVMe*/SATA* drive bays (*NVMe/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) View NVMe Options View Drive Options
M.2	2 M.2 PCIe 3.0 x4 NVMe slots (M-key 2280/22110) View M.2 Options

System Cooling

Fans	Up to 6 counter-rotating 60x60x56mm Fan(s)
Air Shroud	2 Air Shrouds

Power Supply

2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-127Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2000W: 230-240Vac / 50-60Hz 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 83A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166A / Min: 0A (230Vac-240Vac)

12V SB	Max: 3.5A / Min: 0A
Output Type	Backplanes (gold finger)

2x 1300W Redundant (1 + 1) Gold (Certification Pending) Level power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1300W: -44--65Vdc / 50-60Hz
+12V	Max: 108.3A / Min: 0A
12V SB	Max: 2.1A
Output Type	Backplanes (gold finger)

2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-127Vac / 50-60Hz 1600W: 200-240Vac / 50-60Hz 1600W: 200-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 83.3A / Min: 0A (100Vac-127Vac) Max: 133.3A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2600W: 200-240Vac / 50-60Hz 2600W: 200-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 216A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	800W: 100-127Vac / 50-60Hz 1200W: 200-240Vac / 50-60Hz 1200W: 230-240Vdc / 50-60Hz (for CCC only)
+12V	Max: 66.7A / Min: 0A (100Vac-127Vac) Max: 100A / Min: 0A (200Vac-240Vac) Max: 100A / Min: 0A (230Vdc-240Vdc) (for CCC only)
12V SB	Max: 2.1A / Min: 0A

Output Type	Backplanes (gold finger)

2x 2000W Redundant (1 + 1) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2000W: -48--60Vdc / 50-60Hz
+12V	Max: 166.6A / Min: 0A
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 70°C (-40°F to 158°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