AMD EPYC (H13) | 2U | Server

Supermicro AS-2025HS-TNR

AMD EPYC (H13) · 2U Server

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Form Factor	**2U**
CPU	**AMD EPYC™ 9004/9005 Series Processors(* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x)**
GPU	**Up to 2 double-width or 2 single-width GPUs**
Memory	**Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor, MB R1.x/R2.0/R2.01)**

Key Features

- Dual AMD EPYC™ 9004/9005* Series Processors(*AMD EPYC™ 9005 series drop-in support requires board revision 2.xx)
- 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 matchFlexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible)
- 12 Hot-swap 3.5"/2.5" NVMe/SATA/SAS drive bays2 M.2 PCIe 3.0 NVMe slots
- Dual 1600W Redundant Titanium Level power supplies(Power supply full redundancy based on configuration and application load)

Form Factor	2U
Platform	AMD EPYC (H13)
CPU	Dual processor(s) AMD EPYC™ 9004/9005 Series Processors(* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x)
Max GPU Count	Up to 2 double-width or 2 single-width GPUs
Supported GPU	NVIDIA PCIe: H100, H100 NVL, A100, A16, A30, A40, L4, L40, L40S, RTX 4000, RTX 5000 Ada, RTX 6000 Ada Generation, RTX A2000, RTX A4000, RTX A4500, RTX A5000, RTX A5500, RTX A6000, T1000

Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor, MB R1.x/R2.0/R2.01)
Drive Bays	Default: Total 12 bays12 front hot-swap 3.5"/2.5" NVMe*/SAS*/SATA* drive bays
Fans	Up to 4x 8cm heavy duty fans with optimal fan speed control
Power Supply	2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — AS-2025HS-TNR

Product SKUs

Part numbers	AS -2025HS-TNR

Motherboard

Motherboard	A+ Motherboard® H13DSH

Processor

CPU	Dual processor(s) AMD EPYC™ 9004/9005 Series Processors(* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x)
Core Count	Up to 320C/640T
Note	Supports up to 400W TDP CPUs * *Air Cooled CPUs with TDP over 290W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 2 double-width or 2 single-width GPUs
Supported GPU	NVIDIA PCIe: H100, H100 NVL, A100, A16, A30, A40, L4, L40, L40S, RTX 4000, RTX 5000 Ada, RTX 6000 Ada Generation, RTX A2000, RTX A4000, RTX A4500, RTX A5000, RTX A5500, RTX A6000, T1000 View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	PCIe

System Memory

Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor, MB R1.x/R2.0/R2.01) Max Memory (1DPC): Up to 6TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor, MB R2.0) Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor, MB R2.01) View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	Via AIOM View AIOM Options View AOC Options

Input / Output

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

System BIOS

BIOS Type	AMI 32MB SPI Flash EEPROM
BIOS Features	ACPI 6.4 Plug and Play (PnP) SMBIOS 3.5 or later UEFI 2.8 USB Keyboard support

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) OOB Management Package (SFT-OOB-LIC) SuperServer Automation Assistant (SAA) New!
Power configurations	ACPI 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: ESXi 7.0 U3, ESXi 8.0, Hypervisor 8.2.1, Oracle Linux 9.0, RHEL 8.8, RHEL 9.0, SLES 15 SP4, SLES 15 SP5, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
Enterprise Solutions	VMWare vSAN Microsoft Azure Local

Chassis

Form Factor	2U
Model	CSE-HS829-R1K63P-A

Dimensions and Weight

Height	3.5" (88.9 mm)
Width	17.2" (437 mm)
Depth	31.6" (803 mm)
Package	10.4" (H) x 23.8" (W) x 43.6" (D)
Weight	Gross Weight: 69 lbs (31.3 kg) Net Weight: 39 lbs (17.7 kg)
Available Color	Black front & silver body

Front Panel

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

Expansion Slots

PCI-Express (PCIe) Configuration	Default1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option A*1 PCIe 5.0 x16 (in x16) FHFL double-width slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 5.0 x16 (in x16) FHFL double-width slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option B*2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option C*2 PCIe 5.0 x16 (in x16) FHFL double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 2 PCIe 5.0 x16 (in x16) FHFL double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option D*1 PCIe 5.0 x16 (in x16) FHFL double-width slot 2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 5.0 x16 (in x16) FHFL double-width slot 2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option E*4 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 4 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option F*4 PCIe 5.0 x16 (in x16) FHFL double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 4 PCIe 5.0 x16 (in x16) FHFL double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option G*3 PCIe 5.0 x16 (in x16) FHFL double-width slots 2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 3 PCIe 5.0 x16 (in x16) FHFL double-width slots 2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option H*2 PCIe 5.0 x16 (in x16) FHFL double-width slots 4 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 2 PCIe 5.0 x16 (in x16) FHFL double-width slots 4 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option I*1 PCIe 5.0 x16 (in x16) FHFL double-width slot 6 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 5.0 x16 (in x16) FHFL double-width slot 6 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

Drive Bays / Storage

Drive Bays Configuration	Default: Total 12 bays12 front hot-swap 3.5"/2.5" NVMe*/SAS*/SATA* drive bays 12 front hot-swap 3.5"/2.5" NVMe*/SAS*/SATA* drive bays (*NVMe/SAS/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 4x 8cm heavy duty fans with optimal fan speed control
Air Shroud	2 Air Shrouds

Power Supply

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)

Operating Environment

Environmental Spec.	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)

Environmental / Recycling

Recycle	Return Server-End of Life Product