

# Hyper A+ Server AS -2025HS-TNR



More details here

## Key Applications

Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server,

## Key Features

- 4th Generation AMD EPYC™ 9004 Series Processors;
- ASPEED AST2600;
- 24x DIMM slots, DDR5-4800MHz memory, support up to 6 TB;
- Configuration Options for up to;4 PCIe 5.0 x16 Slots OR;8 PCIe 5.0 x8 Slots or;3 PCIe 5.0 x16 Slots + 2 PCIe 5.0 x8 Slots or;2 PCIe 5.0 x16 Slots + 4 PCIe 5.0 x8 Slots or;1 PCIe 5.0 x16 Slots + 6 PCIe 5.0 x8 Slots; 1 AIOM/OCP NIC 3.0 Slot;
- 12 Hot-swap 3.5" NVMe/SAS/SATA (Optional parts required for NVMe/SAS/SATA configurations);
- 1600W Redundant Power Supplies (Titanium Level); Optional Configuration: 1200W/2000W/2600W Redundant Power Supplies (Titanium Level);(\*Full redundancy based on configuration and application load);
- 2 On-board PCIe 3.0 x4 M.2 NVMe 80mm/110mm (Boot);



Form Factor	2U Rackmount Enclosure: 437 x 88.9 x 803mm (17.2" x 3.5" x 31.6") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")
Processor	4th Gen AMD EPYC™ 9004 Series Processor Dual Socket (Socket SP5) supported TDP up to W; 4 UPI (Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization)
System Memory	24 DIMM slots
Drive Bays	12x 3.5" hot-swap NVMe/SATA/SAS drive bays 2x NVMe (PCIe 3.0 x4, Boot drive only) M-Key, 2280/22110
Expansion Slots	4 (Optional) PCIe 5.0 x16 or x8 FH, 10.5"L slot(s) 4 (Optional) PCIe 5.0 x8 FH, 10.5"L slot(s)
On-Board Devices	Chipset: System on Chip Network Connectivity: Via AIOM 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 Dedicated IPMI LAN port USB: 2 USB 3.0 port(s) (2 rear) Video: 1 VGA port(s)



Slot	Description
10	3.5" Hot-Swap 15MM/SAS/SATA Control Bay*

\*15MM/SAS/SATA control requires additional slots in external bay kit



Slot	Description	Slot	Description
1	PCIe 5.0 x16 (FH, 10.5" L)	1	PCIe 5.0 x16 (FH, 10.5" L)
2	Not available	2	Not available
3	PCIe 5.0 x16 (FH, 10.5" L)	3	PCIe 5.0 x16 (FH, 10.5" L)
4	Not available	4	Not available
5	PCIe 5.0 x16 (FH, 10.5" L)	5	PCIe 5.0 x16 (FH, 10.5" L)
6	Not available	6	Not available
7	PCIe 5.0 x16 (FH, 10.5" L)	7	PCIe 5.0 x16 (FH, 10.5" L)
8	Not available	8	Not available

\* Full redundancy based on configuration and application reqs.

System Cooling	4x 8cm heavy duty fan(s)
Power Supply	1600W 1U redundant power supply Dimension (W x H x L): 73.5 x 40 x 265 mm Output Type: 25 Pairs Gold Finger Connector
System BIOS	BIOS Type: AMI 256MB SPI Flash BIOS Features: USB Keyboard support
Management	SuperDoctor® 5; Watch Dog; SUM; SPM; SSM; IPMICFG; IPMIView for Linux/ Windows
PC Health Monitoring	FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors 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
Dimensions and Weight	Height: 3.5" (88.9 mm) Width: 17.2" (437 mm) Depth: 31.6" (803 mm) Gross Weight: 69 lbs (31.3 kg) Net Weight: 39 lbs (17.7 kg) Packaging: 10.4" (H) x 23.8" (W) x 43.6" (D) Available Color: Black front & silver body
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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)
Motherboard	<a href="#">Super H13DSH</a>
Chassis	CSE-HS829-R1K63P-A