Hyper A+ Server AS -2025HS-TNR

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);
- Optional Configuration: 1200W/2000W/2600W Redundant Power Supplies (Titanium Level);(*Full redundancy based on configuration and application load); 1600W Redundant Power Supplies (Titanium Level);
- 2 On-board PCIe 3.0 x4 M.2 NVMe 80mm/110mm (Boot);

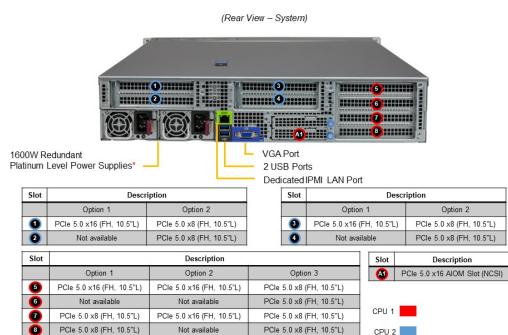|	
Form Factor	2U Rackmount Enclosure: 437 x 88.9 x 803mm (17.2" x 3.5" x 31.6") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")
Processor	4th Gen AMD EPYC™ 9004 Series Processor Dual Socket (Socket SP5) supported TDP up to W; 4 UPI (Certain CPUs with high TDP may be supported only under specific 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)

(Front View – System)

Power Button

Status LEDs

Slot	Description
0 - 12	3.5" Hot-Swap NVMe/SAS/SATA Drive Bays*

*NVMe/SAS/SATA support requires additional parts in optional parts list

(Rear View – System)

1600W Redundant
Platinum Level Power Supplies*

VGA Port
2 USB Ports
Dedicated IPMI LAN Port

Slot	Description	
	Option 1	Option 2
1	PCIe 5.0 x16 (FH, 10.5"L)	PCIe 5.0 x8 (FH, 10.5"L)
2	Not available	PCIe 5.0 x8 (FH, 10.5"L)

Slot	Description	
	Option 1	Option 2
3	PCIe 5.0 x16 (FH, 10.5"L)	PCIe 5.0 x8 (FH, 10.5"L)
4	Not available	PCIe 5.0 x8 (FH, 10.5"L)

Slot	Description		
	Option 1	Option 2	Option 3
5	PCIe 5.0 x16 (FH, 10.5"L)	PCIe 5.0 x16 (FH, 10.5"L)	PCIe 5.0 x8 (FH, 10.5"L)
6	Not available	Not available	PCIe 5.0 x8 (FH, 10.5"L)
7	PCIe 5.0 x8 (FH, 10.5"L)	PCIe 5.0 x16 (FH, 10.5"L)	PCIe 5.0 x8 (FH, 10.5"L)
8	PCIe 5.0 x8 (FH, 10.5"L)	Not available	PCIe 5.0 x8 (FH, 10.5"L)

Slot	Description
A1	PCIe 5.0 x16 AIOM Slot (NCSI)

CPU 1
CPU 2

* Full redundancy based on configuration and application load.

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

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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

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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 & sliver 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 — Super H13DSH

Chassis — CSE-HS829-R1K63P-A