

# Hyper A+ Server AS -2025HS-TNR

2U Hyper with 12 hot-swap 3.5" NVMe/SAS/SATA bays and up to 4 PCIe 5.0 x16 slots



More details here

## Key Applications

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

## Key Features

- Dual 4th Generation AMD EPYC™ 9004 Series Processors;
- 24 DIMM Up to 6TB ECC DDR5 RDIMM;
- 1 AIOM/OCP NIC 3.0 Slot  
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;
- 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);
- Support up to 3 GPUs;



<b>Form Factor</b>	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")
<b>Processor</b>	Dual Socket SP5 AMD EPYC™ 9004 Series Processors Up to 256C/512T
<b>GPU</b>	Max GPU Count: Up to 2 double-width or 2 single-width GPU(s) Supported GPU: NVIDIA PCIe: H100, L40, RTX A6000, RTX A5000, RTX A2000, RTX 6000 Ada Generation, RTX 4000, L40S, L4, A40, A16, A100 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
<b>System Memory</b>	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM
<b>Drive Bays Configuration</b>	Default: Total 12 bay(s) <ul style="list-style-type: none"> <li>• 12 front hot-swap 3.5" NVMe/SAS/SATA drive bay(s)</li> </ul> M.2: 2 M.2 PCIe 3.0 x4 NVMe slot(s) (M-key 2280/22110)
<b>Expansion Slots</b>	Default <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)</li> <li>• 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul> Option B* <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x8 (in x16) FHFL slot(s)</li> <li>• 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul> Option C* <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)</li> <li>• 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul> Option D* <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)</li> <li>• 2 PCIe 5.0 x8 (in x16) FHFL slot(s)</li> <li>• 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul> Option E* <ul style="list-style-type: none"> <li>• 4 PCIe 5.0 x8 (in x16) FHFL slot(s)</li> <li>• 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul> Option F* <ul style="list-style-type: none"> <li>• 4 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)</li> </ul>

- 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

Option G\*

- 3 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)
- 2 PCIe 5.0 x8 (in x16) FHFL slot(s)
- 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

Option H\*

- 2 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)
- 4 PCIe 5.0 x8 (in x16) FHFL slot(s)
- 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

Option I\*

- 1 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)
- 6 PCIe 5.0 x8 (in x16) FHFL slot(s)
- 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

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**On-Board Devices**

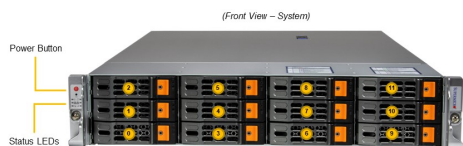
Chipset: System on Chip  
Network Connectivity: Via AIOM

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**Input / Output**

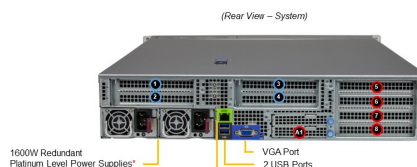
LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s)  
USB: 2 USB 3.0 port(s) (rear)  
Video: 1 VGA port(s)

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Slot	Description
10	3.5" Hot-Swap NVMe/SAS/SATA Drive Bays*

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



Slot	Description	Slot	Description
1	Option 1 PCIe 5.0 x16 (FH, 10.5'L)	2	Option 1 PCIe 5.0 x16 (FH, 10.5'L)
2	Option 2 PCIe 5.0 x8 (FH, 10.5'L)	3	Option 2 PCIe 5.0 x8 (FH, 10.5'L)
3	Not available	4	Not available
4	Option 1 PCIe 5.0 x16 (FH, 10.5'L)	5	Option 1 PCIe 5.0 x16 (FH, 10.5'L)
5	Option 2 PCIe 5.0 x8 (FH, 10.5'L)	6	Option 2 PCIe 5.0 x8 (FH, 10.5'L)
6	Not available	7	Option 3 PCIe 5.0 x8 (FH, 10.5'L)
7	Option 1 PCIe 5.0 x16 (FH, 10.5'L)	8	Option 1 PCIe 5.0 x16 (FH, 10.5'L)
8	Option 2 PCIe 5.0 x8 (FH, 10.5'L)	9	Option 2 PCIe 5.0 x8 (FH, 10.5'L)
9	Not available	10	Option 3 PCIe 5.0 x8 (FH, 10.5'L)

\* Full redundancy based on configuration and application load

System Cooling	Fans: 4x 8cm heavy duty fans with optimal fan speed control Air Shroud: 2 Air Shroud(s)
Power Supply	2x 1600W Redundant Titanium Level (96%) power supplies
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	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
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	Weight: Gross Weight: 69 lbs (31.3 kg) Net Weight: 39 lbs (17.7 kg) Available Color: Black front & silver body
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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)
Motherboard	<a href="#">Super H13DSH</a>
Chassis	CSE-HS829-R1K63P-A