

# Hyper A+ Server AS -2015HS-TNR

2U UP Hyper with 12 hot-swap 3.5" drive bays and up to 8 PCIe 5.0 slots



More details here

## Key Applications

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

## Key Features

- Single AMD EPYC™ 9004/9005\* Series Processor  
(\*AMD EPYC™ 9005 series drop-in support requires board revision 2.x);
- Support up to DDR5 24 DIMM slots (2DPC)  
(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);
- 12 Hot-swap 3.5"/2.5" NVMe/SATA/SAS drive bays  
2 M.2 PCIe 3.0 NVMe slots;
- Support up to 4 GPUs;
- Dual 1200W Redundant Titanium Level power supplies  
(Power supply full redundancy based on configuration and application load);



### Form Factor

2U  
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

Single processor(s)  
AMD EPYC™ 9004/9005 Series Processors  
(\* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x)  
Up to 160C/320T

### GPU

Max GPU Count: Up to 4 double-width GPUs  
Supported GPU: NVIDIA PCIe: H100 NVL, L4, L40S, RTX 4500 Ada, RTX 6000 Ada Generation  
AMD PCIe: Instinct™ MI210  
CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect  
GPU-GPU Interconnect: PCIe

### System Memory

Slot Count: 24 DIMM slots  
Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)  
Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)  
Max Memory (1DPC): Up to 3TB 5200MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)  
Max Memory (2DPC): Up to 6TB 4400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)

### Drive Bays Configuration

Default: Total 12 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)  
M.2: 1 M.2 PCIe 3.0 x4 NVMe slot (M-key 22110(default)/2280)  
1 M.2 PCIe 3.0 x2 NVMe slot (M-key 22110(default)/2280)

### Expansion Slots

Default  
• 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)  
Option B\*  
• 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)  
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)

Option E\*

- 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)

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)

Option H\*

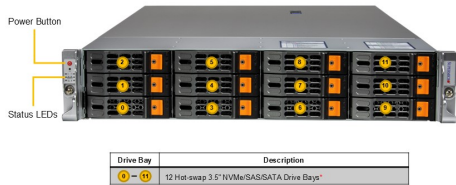
- 2 PCIe 5.0 x16 (in x16) FHFL double-width slots
- 4 PCIe 5.0 x8 (in x16) FHFL slots
- 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)

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)

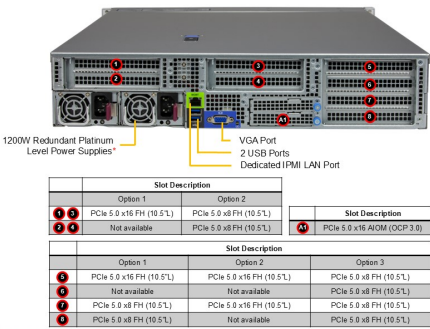
|                  |                                                                                             |
|------------------|---------------------------------------------------------------------------------------------|
| On-Board Devices | Chipset: System on Chip<br>Network Connectivity: Via AIOM                                   |
| Input / Output   | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 ports(rear)<br>Video: 1 VGA port |

(Front View – System)



\*Hot-swap SATA functionality depends on configuration chosen and may require additional parts from the optional parts kit

(Rear View – System)



\*Full redundancy based on configuration and application used

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | <p>Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control</p> <p>Air Shroud: 1 Air Shroud</p>                                                                                                                                                                                                                                                                                                                                                                                     |
| Power Supply          | 2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies                                                                                                                                                                                                                                                                                                                                                                                                                               |
| System BIOS           | <p>BIOS Type: AMI 32MB SPI Flash EEPROM</p> <p>BIOS Features: ACPI 6.4</p> <ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>SMBIOS 3.5 or later</li> <li>UEFI 2.8</li> <li>USB Keyboard support</li> </ul>                                                                                                                                                                                                                                                                |
| Management            | <p>SuperCloud Composer®; 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!</p>                                                                                                                                                                                                     |
| PC Health Monitoring  | <p>FAN: Fans with tachometer monitoring</p> <ul style="list-style-type: none"> <li>Pulse Width Modulated (PWM) fan connectors</li> <li>Status monitor for speed control</li> </ul> <p>Temperature: Monitoring for CPU and chassis environment</p> <ul style="list-style-type: none"> <li>Thermal Control for fan connectors</li> </ul> <p>Voltage:</p> <p>System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 69 lbs (31.3 kg)</p> <p>Net Weight: 39 lbs (17.7 kg)</p> <p>Available Color: Black front &amp; silver body</p>                                                                                                                                                                                                                                                                                                                                                      |
| Operating Environment | <p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p>                                                                                                                                                                                                                                 |
| Motherboard           | <a href="#">Super H13SSH</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Chassis               | CSE-HS829-R1K24P-A                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |