

# Hyper A+ Server AS -2115HS-TNR

2U UP Hyper with 24 hot-swap 2.5" drive bays and 1 PCIe 5.0 slot



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);
- 24 Hot-swap 2.5" NVMe/SATA/SAS drive bays  
2 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<br>Enclosure: 437 x 88.9 x 760mm (17.2" x 3.5" x 29.9")<br>Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Processor                | Single processor(s)<br>AMD EPYC™ 9004/9005 Series Processors<br>(* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x)<br>Up to 160C/320T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| GPU                      | Max GPU Count: Up to 2 double-width GPUs<br>Supported GPU: NVIDIA PCIe: RTX 6000 Ada Generation, RTX A6000<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: PCIe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| System Memory            | Slot Count: 24 DIMM slots<br>Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)<br>Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)<br>Max Memory (1DPC): Up to 3TB 5200MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)<br>Max Memory (2DPC): Up to 6TB 4400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)                                                                                                                                                                                                                                                                                                                                                                                                       |
| Drive Bays Configuration | Default: Total 24 bays <ul style="list-style-type: none"> <li>• 24 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> (*NVMe/SAS/SATA support may require additional storage controller and/or cables)<br>M.2: 1 M.2 PCIe 3.0 x4 NVMe slot (M-key 22110(default)/2280)<br>1 M.2 PCIe 3.0 x2 NVMe slot (M-key 22110(default)/2280)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHFL double-width slot</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul> Option B* <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x8 (in x16) FHFL slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul> Option C* <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHFL double-width slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul> Option D* <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHFL double-width slot</li> <li>• 2 PCIe 5.0 x8 (in x16) FHFL slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul> |

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

- Option G\*
- 3 PCIe 5.0 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)

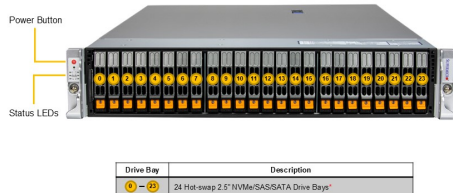
- Option H\*
- 2 PCIe 5.0 x16 FHFL double-width slots
  - 4 PCIe 5.0 x8 (in x16) FHFL slots
  - 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)

- Option I\*
- 1 PCIe 5.0 x16 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 |
|------------------|-----------------------------------------------------------|

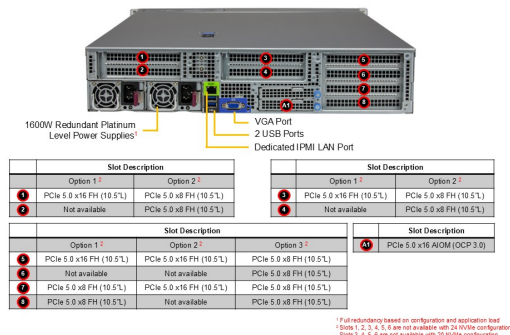
|                |                                                                                             |
|----------------|---------------------------------------------------------------------------------------------|
| Input / Output | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 ports(rear)<br>Video: 1 VGA port |
|----------------|---------------------------------------------------------------------------------------------|

(Front View – System)



<sup>1</sup> NVMe/SAS/SATA functionality depends on configuration chosen and may require additional parts from the optional parts kit

(Rear View – System)



## System Cooling

Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control  
Air Shroud: 1 Air Shroud

## Power Supply

2x 1600W Redundant (1 + 1) 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<sup>®</sup>; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor<sup>®</sup> 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); OOB Management Package (SFT-OOB-LIC ); SuperServer Automation Assistant (SAA) New!

## 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

## Dimensions and Weight

Weight: Gross Weight: 72 lbs (32.7 kg)  
Net Weight: 39 lbs (17.7 kg)  
Available Color: Black front & silver body

## Operating Environment

Operating Temperature: 10°C to 35°C (50°F to 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 H13SSH](#)

## Chassis

CSE-HS219-R1K63P-A