

# Hyper A+ Server AS -1125HS-TNR

1U Hyper with 8 hot-swap 2.5" NVMe/SAS/SATA bays and 3 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 AMD EPYC™ 9004/9005\* Series Processors  
(\*AMD EPYC™ 9005 series drop-in support requires board revision 2.xx);
- Support up to DDR5 24 DIMM slots (1DPC), speed up to 6400MT/s  
(Please check System Memory Section for detail);
- 2 PCIe 5.0 x16 FHFL slots  
1 PCIe 5.0 x16 FHHL slot  
Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible);
- 8 Hot-swap 2.5" NVMe/SATA/SAS drive bays  
Optional 4 Hot-swap 2.5" NVMe/SAS/SATA drive support via additional parts  
2 M.2 PCIe 3.0 NVMe slots;
- Dual 1200W Redundant Titanium Level power supplies  
(Power supply full redundancy based on configuration and application load);



|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 1U<br>Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4")<br>Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")                                                                                                                                                                                                                                                                                                                                      |
| Processor                | Dual 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 320C/640T                                                                                                                                                                                                                                                                                              |
| System Memory            | Slot Count: 24 DIMM slots<br>Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor, MB R1.x/R2.0/R2.01)<br>Max Memory (1DPC): Up to 6TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor, MB R2.0)<br>Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor, MB R2.01)                                                                                                      |
| Drive Bays Configuration | Default: Total 8 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> Option A: Total 12 bays <ul style="list-style-type: none"> <li>• 12 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays</li> </ul> (*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)<br>M.2: 2 M.2 PCIe 3.0 x4 NVMe slots (M-key 2280/22110) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHHL slot</li> <li>• 2 PCIe 5.0 x16 FHFL slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul>                                                                                                                                                                                                                                                                  |
| On-Board Devices         | Via AIOM                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 ports(rear)<br>1 USB 3.0 port(front)<br>Video: 1 VGA port                                                                                                                                                                                                                                                                                                                                |

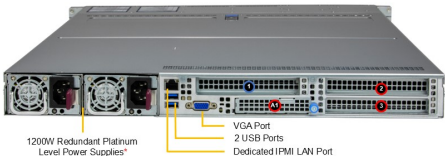
(Front View – System)



| Drive Bay | Description                                                 |
|-----------|-------------------------------------------------------------|
| 1-8       | 8 Hot-swap 2.5" NVMe/SAS/SATA Drive Bays                    |
| 9-12      | 4 Hot-swap 2.5" SAS/SATA Drive Bays <sup>1</sup> (optional) |

<sup>1</sup> NVMe/SAS/SATA functionality depends on configuration chosen and may require additional parts from the optional parts list.  
<sup>2</sup> Drive bays and backplane optional for drive slots 9-11, see optional parts list.

(Rear View – System)



| Slot | Slot Description           |
|------|----------------------------|
| 1    | PCIe 5.0 x16 FH (16.5L)    |
| 2    | PCIe 5.0 x16 FH (16.5L)    |
| 3    | PCIe 5.0 x16 FH (16.5L)    |
| 4    | PCIe 5.0 x16 AOM (OCP 3.0) |

CPU1 CPU2

<sup>2</sup> Full redundancy based on configuration and application load.

|                       |                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 8 counter-rotating 40x40x56mm Fan(s)<br>Air Shroud: 2 Air Shrouds                                                                                                                                                                                                                                                                                         |
| Power Supply          | 2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies                                                                                                                                                                                                                                                                                                        |
| System BIOS           | BIOS Type: AMI 32MB SPI Flash EEPROM<br>BIOS Features: ACPI 6.4<br>Plug and Play (PnP)<br>SMBIOS 3.5 or later<br>UEFI 2.8<br>USB Keyboard support                                                                                                                                                                                                                     |
| Management            | SuperCloud Composer® (SCC); 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!                                                                               |
| PC Health Monitoring  | Fan: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors<br>Voltage:<br>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: 51 lbs (23.1 kg)<br>Net Weight: 32 lbs (14.5 kg)<br>Available Color: Black front & silver body                                                                                                                                                                                                                                                  |
| Operating Environment | Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing)                                                                                                                             |
| Motherboard           | <a href="#">Super H13DSH</a>                                                                                                                                                                                                                                                                                                                                          |
| Chassis               | CSE-HS119-R1K24P2-A                                                                                                                                                                                                                                                                                                                                                   |