

Hyper SuperServer AS -2126HS-TN

2U Hyper with up to 24 hot-swap 2.5" NVMe/SAS/SATA bays and 4 PCIe 5.0 x16 slots + 1 PCIe 5.0 x16 AIOM slot

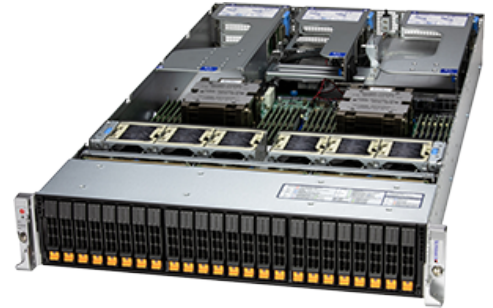


Key Applications

Virtualization, Software-defined Storage, AI Inference and Machine Learning, Cloud Computing, Enterprise Server, High Performance Computing (HPC),

Key Features

- Dual AMD EPYC™ 9005/9004 Series Processors;
- Support up to DDR5 24 DIMM slots (1DPC);
- 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);
- Up to 24 front hot-swap 2.5" NVMe/SATA drive bays
2 M.2 PCIe 3.0 NVMe slots;
- Capabilities for GPU and CXL 2.0 support;



| | |
|---------------------------------|---|
| Form Factor | 2U Rackmount Enclosure: 437 x 88.9 x 806.2mm (17.2" x 3.5" x 31.74") Package: 672 x 253 x 1100mm (26.46" x 9.96" x 43.31") |
| Processor | Dual processor(s) AMD EPYC™ 9005/9004 Series Processors Up to 384C/768T |
| GPU | Max GPU Count: Up to 3 double-width GPUs GPU-GPU Interconnect: PCIe |
| System Memory | Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 9TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) |
| Drive Bays Configuration | Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" NVMe*/SATA* drive bays Option A: Total 24 bays <ul style="list-style-type: none"> • 24 front hot-swap 2.5" NVMe*/SATA* drive bays (*NVMe/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 PCIe 3.0 x4 NVMe slots (M-key 2280/22110) |
| Expansion Slots | PCI-Express (PCIe) Configuration: Option A* <ul style="list-style-type: none"> • 4 PCIe 5.0 x16 FHFL double-width slots • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option B* <ul style="list-style-type: none"> • 8 PCIe 5.0 x8 (in x16) FHFL slots • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) CXL Support: Up to 4 CXL 2.0 x16 devices |
| 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 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) Video: 1 VGA port TPM: 1 TPM Onboard/port 80 |

(Front View – System)



| Drive Bay | Description |
|-----------|--------------------------------------|
| 1-8 | 8 Hot-swap 2.5" NVMe/SATA Drive Bays |

*NVMe/SATA support requires additional parts from the optional cart kit

(Rear View – System)

Redundant Titanium Level Power Supplies¹

VGA Port
2 USB Ports
Dedicated IPMI LAN Port

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

| Slot Description | | | Slot Description |
|-----------------------------|---------------------------|--------------------------|-----------------------------|
| Option 1 | Option 2 | Option 3 | Option 1 |
| 1 PCIe 5.0 x16 FH (10.5" L) | PCIe 5.0 x16 FH (10.5" L) | PCIe 5.0 x8 FH (10.5" L) | 1 PCIe 5.0 x16 AOM (CCP3.0) |
| 2 Not available | Not available | PCIe 5.0 x8 FH (10.5" L) | 2 Not available |
| 3 PCIe 5.0 x8 FH (10.5" L) | PCIe 5.0 x16 FH (10.5" L) | PCIe 5.0 x8 FH (10.5" L) | 3 Not available |
| 4 PCIe 5.0 x8 FH (10.5" L) | Not available | PCIe 5.0 x8 FH (10.5" L) | 4 Not available |

¹ Not available with 24 VVdc drive bay configuration
² Full power supply redundancy is based on selected power supply, system configuration, and application load. See Power Supply Section for more details.

| | |
|-----------------------|---|
| System Cooling | Fans: 6 counter-rotating 60x60x56mm Fan(s) |
| Power Supply | 2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies |
| System BIOS | BIOS Type: AMI 64MB SPI Flash EEPROM BIOS Features: Plug and Play (PnP) UEFI 2.8 USB Keyboard support ACPI 6.5 SMBIOS 3.7 or later |
| Management | SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); KVM with dedicated LAN ; IPMI 2.0; Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!; IPMIView |
| 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: 75 lbs (34 kg) Net Weight: 45 lbs (20.5 kg) Available Color: Silver |
| 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 H14DSH |
| Chassis | CSE-HS201-R000NFP |