

Hyper A+ Server AS -2125HS-TNR

2U Hyper with 24 hot-swap 2.5" NVMe/SATA bays and 1 PCIe 5.0 x16 slot



More details here

Key Applications

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

Key Features

- 4th Generation AMD EPYC™ 9004 Series Processors;
- ASPEED AST2600;
- 24x DIMM slots, DDR5-4800MHz memory, support up to 6 TB;
- 1 AIOM/OCP NIC 3.0 Slot
For 24 SATA/SAS 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;For 24 NVME Configuration Options for up to;1 PCIe 5.0 x16 Slots OR 2 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);



Form Factor	2U Rackmount Enclosure: 437 x 88.9 x 760mm (17.2" x 3.5" x 29.9") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")
Processor	Dual Socket SP5 AMD EPYC™ 9004 Series Processors Up to 256C/512T
GPU	Max GPU Count: Up to 4 double-width GPU(s) Supported GPU: NVIDIA PCIe: RTX A2000 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 6TB 4800MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 24 bay(s) <ul style="list-style-type: none"> • 24 front fixed 2.5" NVMe*/SAS*/SATA* drive bay(s) (*NVMe/SAS/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 slot(s) (M-key 2280/22110)
Expansion Slots	Default <ul style="list-style-type: none"> • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option A* <ul style="list-style-type: none"> • 1 PCIe 5.0 x16 (in x16) FHFL double-width slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option B* <ul style="list-style-type: none"> • 2 PCIe 5.0 x8 (in x16) FHFL slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option C* <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 (in x16) FHFL double-width slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option D* <ul style="list-style-type: none"> • 1 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 E* <ul style="list-style-type: none"> • 4 PCIe 5.0 x8 (in x16) FHFL slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

Option F*

- 4 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)
- 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*

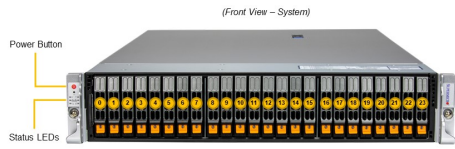
- 1 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)
- 6 PCIe 5.0 x8 (in x16) FHFL slot(s)
- 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

On-Board Devices

Chipset: System on Chip
Network Connectivity: Via AIOM

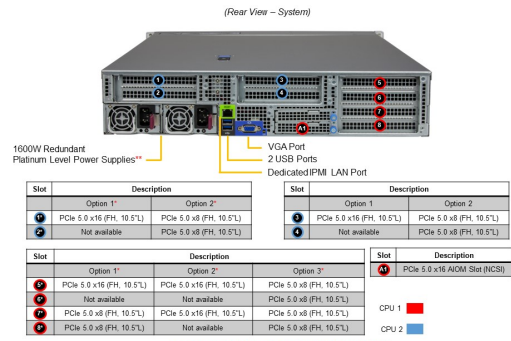
Input / Output

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



Slot	Description
0-23	2.5" Hot-Swap NVMe/SAS/SATA Drive Bays*

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



1600W Redundant Platinum Level Power Supplies**

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)	3 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)	4 Not available	PCIe 5.0 x8 (FH, 10.5'L)

Slot	Description	Slot	Description
Option 1	Option 2	Option 3	
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)	
2 Not available	Not available	PCIe 5.0 x8 (FH, 10.5'L)	
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)	
4 PCIe 5.0 x8 (FH, 10.5'L)	Not available	PCIe 5.0 x8 (FH, 10.5'L)	

Slot	Description
0	PCIe 5.0 x16 AIO/M Slot (HCS)

CPU 1 ■
CPU 2 ■

* Slots 1, 2, 5, 6, 7, 8 are not available with 24 NVMe Configuration
** Full redundancy based on configuration and application load.

System Cooling	Fans: 4 counter-rotating 80x80x38mm Fan(s)
Power Supply	1x 1600W Redundant Titanium Level power supply
System BIOS	BIOS Type: AMI 256MB SPI Flash BIOS Features: UEFI 2.8 SMBIOS 3.5 or later ACPI 6.4 Plug and Play (PnP) USB Keyboard support
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; TAS: Supermicro Thin-Agent Service (TAS); 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: 72 lbs (32.7 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: -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 H13DSH
Chassis	CSE-HS219-R1K63P-A