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

- 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);
- 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 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 processor(s) AMD EPYC™ 9004/9005 Series Processors (* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x) Up to 320C/640T
System Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor, MB R1.x/R2.0/R2.01) Max Memory (1DPC): Up to 6TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor, MB R2.0) Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor, MB R2.01)
Drive Bays Configuration	Default: Total 24 bays • 24 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays (*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 slots (M-key 2280/22110)
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	Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports (rear) Video: 1 VGA port

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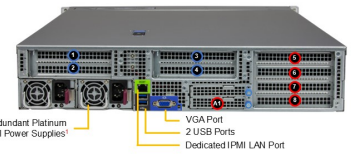
(Front View – System)



Drive Bay	Description
0 – 23	24 Hot-swap 2.5" NVMe/SAS/SATA Drive Bays*

*NVMe/SAS/SATA support requires additional parts from the optional parts list

(Rear View – System)



	Slot Description	
	Option 1 [2]	Option 2 [2]
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)

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

	Slot Description		
	Option 1 [2]	Option 2 [2]	Option 3 [2]
5	PCIe 5.0 x16 FH (10.5"L)	PCIe 5.0 x16 FH (10.5"L)	PCIe 5.0 x8 FH (10.5"L)
6	Not available	Not available	PCIe 5.0 x8 FH (10.5"L)
7	PCIe 5.0 x8 FH (10.5"L)	PCIe 5.0 x16 FH (10.5"L)	PCIe 5.0 x8 FH (10.5"L)
8	PCIe 5.0 x8 FH (10.5"L)	Not available	PCIe 5.0 x8 FH (10.5"L)

	Slot Description
A1	PCIe 5.0 x16 AIOM (OCP 3.0)

CPU1 CPU2

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

System Cooling	Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control Air Shroud: 2 Air Shrouds
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® (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 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	**A+ Motherboard® H13DSH**
Chassis	**CSE-HS219-R1K63P-A**

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