

Hyper A+ Server AS -2125HS-TNR



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;
- 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; 1 AIOM/OCP NIC 3.0 Slot;
- 24 Hot-swap 2.5" NVMe/SAS/SATA (Optional parts required for NVMe/SAS/SATA configurations);
- 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

4th Gen AMD EPYC™ 9004 Series Processor
Dual Socket (Socket SP5) supported
TDP up to W; 4 UPI
(Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization)

System Memory

24 DIMM slots

Drive Bays

24x 2.5" hot-swap NVMe/SATA/SAS drive bays
2x NVMe (PCIe 3.0 x4, Boot drive only)
M-Key, 2280/22110

Expansion Slots

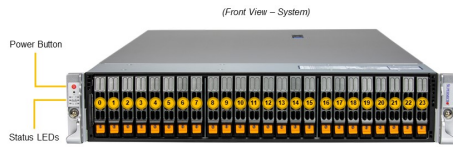
4 (Optional) PCIe 5.0 x16 or x8 FH, 10.5"L slot(s)
4 (Optional) PCIe 5.0 x8 FH, 10.5"L slot(s)

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

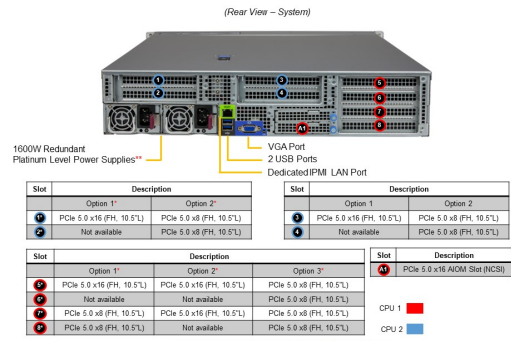
Input / Output

LAN: 1 Dedicated IPMI LAN port
USB: 2 USB 3.0 port(s) (2 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



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

Slot	Description	Slot	Description
1	PCIe 5.0 x16 (FH, 10.5")	1	PCIe 5.0 x16 (FH, 10.5")
2	Not available	2	Not available
3	Not available	3	PCIe 5.0 x8 (FH, 10.5")
4	Not available	4	PCIe 5.0 x8 (FH, 10.5")
5	Not available	5	Not available
6	Not available	6	Not available
7	Not available	7	Not available
8	Not available	8	Not available
9	Not available	9	Not available
10	Not available	10	Not available
11	Not available	11	Not available
12	Not available	12	Not available
13	Not available	13	Not available
14	Not available	14	Not available
15	Not available	15	Not available
16	Not available	16	Not available
17	Not available	17	Not available
18	Not available	18	Not available
19	Not available	19	Not available
20	Not available	20	Not available
21	Not available	21	Not available
22	Not available	22	Not available
23	Not available	23	Not available

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

System Cooling	4x 8cm heavy duty fan(s)
Power Supply	1600W 1U redundant power supply Dimension (W x H x L): 73.5 x 40 x 265 mm Output Type: 25 Pairs Gold Finger Connector
System BIOS	BIOS Type: AMI 256MB SPI Flash BIOS Features: USB Keyboard support
Management	SuperDoctor® 5; Watch Dog; SUM; SPM; SSM; IPMICFG; IPMIVIEW for Linux/ Windows
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	Height: 3.5" (88.9 mm) Width: 17.2" (437 mm) Depth: 29.9" (760 mm) Gross Weight: 72 lbs (32.7 kg) Net Weight: 39 lbs (17.7 kg) Packaging: 10.4" (H) x 23.8" (W) x 43.6" (D) 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