

Hyper A+ Server AS -2025HS-TNR

2U Hyper with 12 hot-swap 3.5" NVMe/SAS/SATA bays and up to 4 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

- 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
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;
- 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 803mm (17.2" x 3.5" x 31.6") 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 2 double-width or 2 single-width GPU(s) Supported GPU: NVIDIA PCIe: H100, L40, RTX A6000, RTX A5000, RTX A2000, RTX 6000 ADA, RTX 4000, L40S, L4, A40, A16, A100 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 12 bay(s) <ul style="list-style-type: none"> • 12 front hot-swap 3.5" NVMe/SAS/SATA drive bay(s) 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* <ul style="list-style-type: none"> • 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*

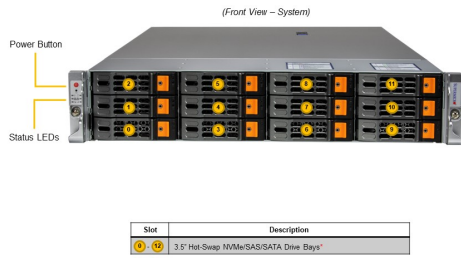
- 1 PCIe 5.0 x16 (in x16) FHFL double-width slot(s)
- 6 PCIe 5.0 x8 (in x16) FHFL slot(s)
- 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

On-Board Devices

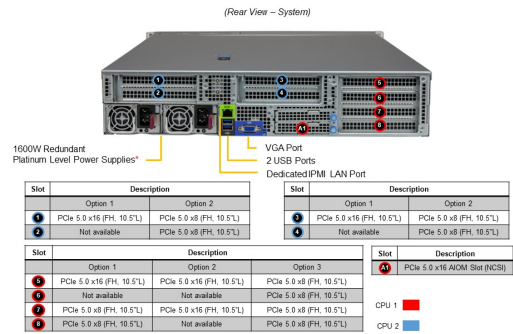
Chipset: System on Chip
Network Connectivity: Via AIOM

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)



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



* 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: 69 lbs (31.3 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: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing) |
| Motherboard | Super H13DSH |
| Chassis | CSE-HS829-R1K63P-A |