

Hyper A+ Server AS -2015HS-TNR

2U UP Hyper with 12 hot-swap 3.5" drive bays and up to 8 PCIe 5.0 slots



More details here

Key Applications

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

Key Features

- Single AMD EPYC™ 9004/9005* Series Processor
(*AMD EPYC™ 9005 series drop-in support requires board revision 2.x);
- Support up to DDR5 24 DIMM slots (2DPC)
(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);
- 12 Hot-swap 3.5"/2.5" NVMe/SATA/SAS drive bays
2 M.2 PCIe 3.0 NVMe slots;
- Support up to 4 GPUs;
- Dual 1200W Redundant Titanium Level power supplies
(Power supply full redundancy based on configuration and application load);



Form Factor	2U 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	Single processor(s) AMD EPYC™ 9004/9005 Series Processors (* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x) Up to 160C/320T
GPU	Max GPU Count: Up to 4 double-width GPUs Supported GPU: NVIDIA PCIe: H100 NVL, L4, L40S, RTX 4500 Ada, RTX 6000 Ada Generation AMD PCIe: Instinct™ MI210 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 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) Max Memory (1DPC): Up to 3TB 5200MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (2DPC): Up to 6TB 4400MT/s ECC DDR5 1R RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 2R RDIMM (AMD EPYC™ 9005 Series Processor)
Drive Bays Configuration	Default: Total 12 bays • 12 front hot-swap 3.5"/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: 1 M.2 PCIe 3.0 x4 NVMe slot (M-key 22110(default)/2280) 1 M.2 PCIe 3.0 x2 NVMe slot (M-key 22110(default)/2280)
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

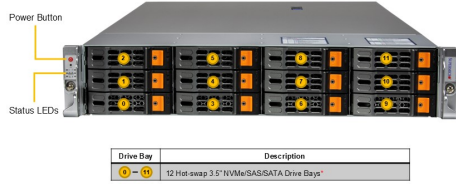
Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port

USB: 2 USB 3.0 ports(rear)

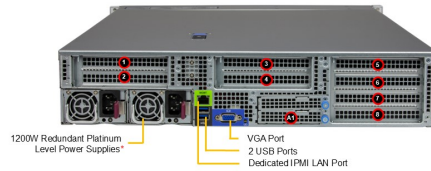
Video: 1 VGA port

(Front View – System)



*Hot-swap SATA functionality depends on configuration chosen and may require additional parts from the optional parts list

(Rear View – System)



Slot Description			Slot Description
Option 1	Option 2		
PCIe 5.0 x16 FH (10.5 L)	PCIe 5.0 x8 FH (10.5 L)		PCIe 5.0 x16 AOM (OCP 3.0)
Not available	PCIe 5.0 x8 FH (10.5 L)		

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

*Full redundancy based on configuration and application used

System Cooling	Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	2x 1200W 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: 69 lbs (31.3 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	Super H13SSH
Chassis	CSE-HS829-R1K24P-A