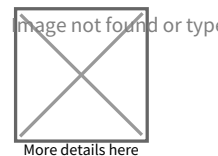


Hyper A+ Server AS -2115HS-TNR



Key Applications

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

Key Features

- 4th Generation AMD EPYC™ 9004 Series Processor;
- ASPEED AST2600;
- 24 DIMM slots with 2 DIMM per channel (up to 6TB DDR5-4000MHz(1R)/3600MHz(2R)) OR; 12 DIMM slots with 1 DIMM per channel (up to 3TB DDR5-4800MHz);
- For 24 SATA/SAS and 16 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; For 20 NVME Configuration Options for up to; 2 PCIe 5.0 x16 Slots OR 4 PCIe 5.0 x8 Slots; 1 AIOM/OCF NIC 3.0 Slot;



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	Single Socket SP5 AMD EPYC™ 9004 Series Processors Up to 128C/256T
GPU	Max GPU Count: Up to 2 double-width GPU(s) Supported GPU: NVIDIA PCIe: RTX 6000 ADA, RTX A6000 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 Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 RDIMM
Drive Bays	24x 2.5" hot-swap NVMe/SATA/SAS drive bays 2x NVMe (1x PCIe 3.0x4, 1x PCIe 3.0x2, Boot drive only) M-Key, 22110 (Default)/2280
Expansion Slots	4 (Optional) PCIe 5.0 x16 FHFL slot(s) 8 (Optional) PCIe 5.0 x8 FHFL slot(s) 1 (Optional) PCIe 5.0 x16 AIOM 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)

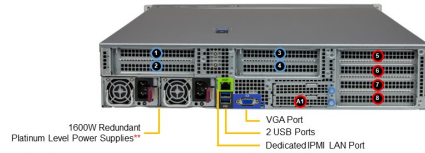
(Front View – System)



Drive Bay	Description
0-15	2.5" Hot-swap NVMe/SAS3/SATA3 Drive Bays*

*NVMe/SAS3/SATA3 functionality depends on options chosen from the optional parts list.

(Rear View – System)



Slot	Option 1	Option 2	Slot	Option 1	Option 2
1	PCIe 5.0 x16 (FH, 10.5'L)	PCIe 5.0 x8 (FH, 10.5'L)	2	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)	3	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)	4	PCIe 5.0 x16 AIOM (NCSI)
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)		

* Slots 1, 2, 3, 4, 5, 6 are not available with 24 H/W configuration
 ** Full redundancy based on configuration and application load.

System Cooling	Fans: 4x 8cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud(s)
Power Supply	1600W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 256MB SPI Flash BIOS Features: USB Keyboard support
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
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 H13SSH
Chassis	CSE-HS219-R1K63P-A