

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);
- 1 AIOM/OCN NIC 3.0 Slot; 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;



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 Processor (the latest AMD EPYC™ 9004 Series Processor with AMD 3D V-Cache™ Technology)
Up to 128C/256T

System Memory

Memory Capacity: 24 DIMM slots
Up to 3TB: DDR5-4800MHz (12 DIMM slots, 1DPC)
Up to 6TB: DDR5-4000MHz/ 3600MHz (24 DIMM slots, 2DPC)
Memory Type: 4800MHz(1DPC) or 4000/3600(2DPC)MHz ECC DDR5 RDIMM

Drive Bays

24x 2.5" hot-swap NVMe/SATA/SAS drive bays
2x NVMe (PCIe Gen4, Boot drive only)
M-Key, 22110 (Default)

Expansion Slots

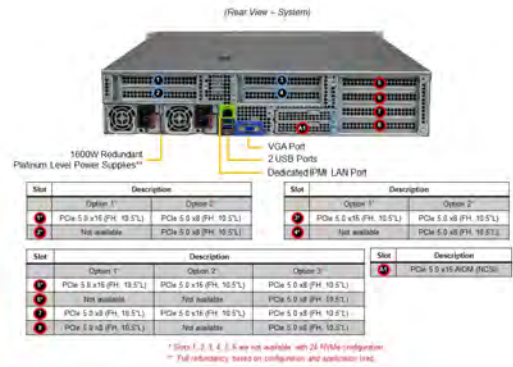
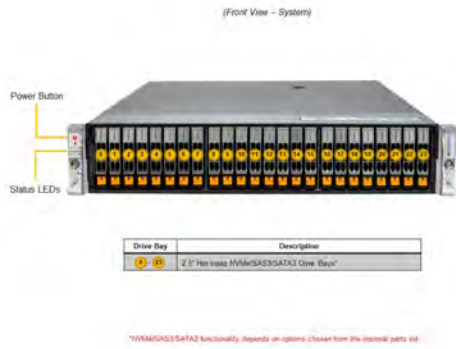
4 (Optional) PCIe 5.0 x16 FHFL slot(s)
8 (Optional) PCIe 5.0 x8 FHFL slot(s)

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)



System Cooling	4x 8cm heavy duty fan(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