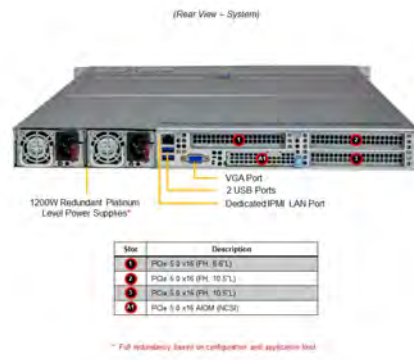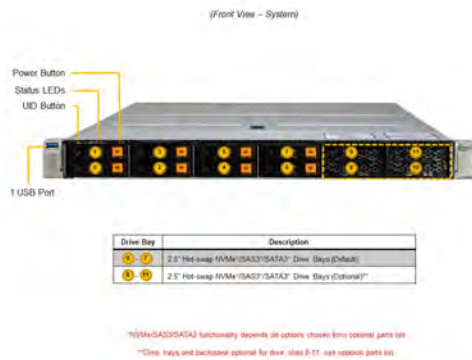# Hyper A+ Server AS -1115HS-TNR

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);
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible); 1 PCIe 5.0 x16, FH, 6.6"L; 2 PCIe 5.0 x16 FH, 10.5"L;
- 8 Hot-swap 2.5" NVMe/SAS/SATA (Option for up to 12 drives); (Optional parts required for NVMe/SAS/SATA configurations);
- 800/1200W Redundant Power Supplies (Titanium Level);(*Full redundancy based on configuration and application load);
- 2 On-board PCIe Gen4 M.2 NVMe 80mm/110mm (Boot);

Form Factor	1U Rackmount Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4") Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")
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	8x 2.5" hot-swap NVMe/SATA/SAS drive bays (Up to 12x 2.5" hot-swap NVMe/SATA/SAS support with additional parts) 2x NVMe (PCIe Gen4, Boot drive only) M-Key, 22110 (Default)
Expansion Slots	1 PCIe 5.0 x16 FH, 6.6"L slot(s) 2 PCIe 5.0 x16 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: 3 USB 3.0 port(s) (2 rear; 1 front) Video: 1 VGA port(s)

System Cooling	8x 4cm 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: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 29.4" (747 mm) Gross Weight: 51 lbs (23.1 kg) Net Weight: 32 lbs (14.5 kg) Packaging: 8.1" (H) x 23.8" (W) x 40.6" (D) Available Color: Black front & sliver 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-HS119-R1K24P2-A