Hyper A+ Server AS -1125HS-TNR

1U Hyper with 8 hot-swap 2.5" NVMe/SAS/SATA bays and 3 PCIe 5.0 x16 slots

More details here
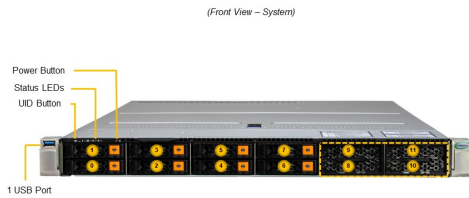
Key Applications

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

Key Features

- Dual 4th Generation AMD EPYC™ 9004 Series Processors;
- 24 DIMM Up to 6TB ECC DDR5 RDIMM;
- 2 PCIe 5.0 x16 FH, 10.5"L
  1 PCIe 5.0 x16, FH, 6.6"L
  Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible);
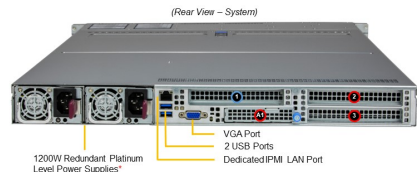- 2 On-board PCIe 3.0 x4 M.2 NVMe 80mm/110mm (Boot);

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	Dual Socket SP5 AMD EPYC™ 9004 Series Processors Up to 256C/512T
System Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM

Drive Bays Configuration	Default: Total 8 bays
	  • 8 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays
	Option A: Total 12 bays
	  • 12 front hot-swap 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: 2 M.2 PCIe 3.0 x4 NVMe slots (M-key 2280/22110)

Expansion Slots	Default
	  • 1 PCIe 5.0 x16 FHHL slot
	  • 2 PCIe 5.0 x16 FH/10.5"L slots
	  • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)

On-Board Devices	Chipset: System on Chip Network Connectivity: Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) 1 USB 3.0 port(front) Video: 1 VGA port

(Front View – System)

(Rear View – System)

Power Button
Status LEDs
UID Button

1 USB Port

Slot	Description
0 - 7	2.5" Hot-Swap NVMe¹/SAS3¹/SATA3¹ Drive Bays (Default)
9 - 11	2.5" Hot-Swap NVMe¹/SAS3¹/SATA3¹ Drive Bays (Optional)**

* NVMe/SAS3/SATA3 function depending on option chosen from optional parts list

** Drive trays and backplane optional for drive slots 8~11; see optional parts list

1200W Redundant Platinum
Level Power Supplies*

VGA Port
2 USB Ports
Dedicated IPMI LAN Port

Slot	Description
1	PCIe 5.0 x16 (FH, 6.6"L)
2	PCIe 5.0 x16 (FH, 10.5"L)
3	PCIe 5.0 x16 (FH, 10.5"L)
A1	PCIe 5.0 x16 AIOM Slot (NCSI)

CPU 1
CPU 2

* Full redundancy based on configuration and application load.

System Cooling

Fans: 8 counter-rotating 40x40x56mm Fan(s)

Power Supply

2x 1200W Redundant 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; 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
　　　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

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Dimensions and Weight

Weight: Gross Weight: 51 lbs (23.1 kg)
　　　　Net Weight: 32 lbs (14.5 kg)
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 H13DSH

Chassis

CSE-HS119-R1K24P2-A