

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,

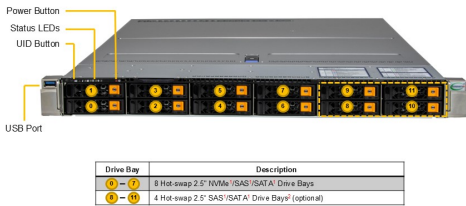
Key Features

- Dual AMD EPYC™ 9004/9005* Series Processors
(*AMD EPYC™ 9005 series drop-in support requires board revision 2.x);
- Support up to DDR5 24 DIMM slots (1DPC);
- 2 PCIe 5.0 x16 FHFL slots
1 PCIe 5.0 x16 FHHL slot
Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible);
- 8 Hot-swap 2.5" NVMe/SATA/SAS drive bays
Optional 4 Hot-swap 2.5" NVMe/SAS/SATA drive support via additional parts
2 M.2 PCIe 3.0 NVMe slots;
- Dual Titanium Level 1200W redundant power supplies
(Power supply full redundancy based on configuration and application load);



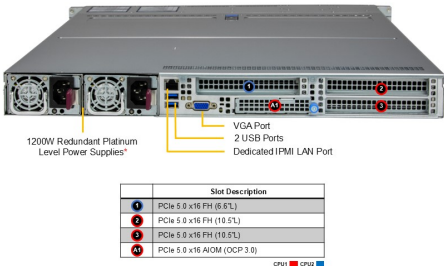
Form Factor	1U Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4") Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")
Processor	Dual processor(s) AMD EPYC™ 9004/9005 Series Processors (* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x) Up to 320C/640T
System Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) Max Memory (1DPC): Up to 9TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)
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 FHFL 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)



¹ NVMe/SAS/SATA functionality depends on configuration chosen and may require additional parts from the optional parts list.
² Drive bays and backplane optional for drive SAS 6-11, see optional parts list.

(Rear View – System)



*Full redundancy based on configuration and application load

System Cooling	Fans: 8 counter-rotating 40x40x56mm Fan(s) Air Shroud: 2 Air Shrouds
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
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 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 H13DSH
Chassis	CSE-HS119-R1K24P2-A

Parts List

Optional Parts List

8 NVMe					
Part Number	CBL-KIT-1125HS-TNR-8N				
Qty	1				
Description	8 NVME cable kit				
8 NVME + 4 SAS					
Part Number	AOC-S3808L-L8iT OR AOC-S3908L-H8iR	CBL-KIT-1125HS-TNR-8N	BPN-NVME5-HS119N-S4R	MCP-220-00178-0B	CBL-PWEX-1136-40
Qty	CBL-SAST-1262LP-100	CBL-CDAT-1062Y-45	1	4	1
	1	1			
Description	8 int 12Gb/s SAS3 ports, x8 Gen4, HBA/ 8 int 12Gb/s ports, x8 Gen4, ROC- LP, 240 HDD w/exp Slimline x8 (STR) to SlimLineLP x4 STR,98CM,100Ohm	8 NVME cable kit Picoblade 1.25 (1x4 to 2x 1x4),45cm,26AWG	1U 4-slot backplane, 4x SAS3/SATA3/NVME5	2.5 thin profile drive tray, Orange tab (for hotswap NVMe drive)	MicroHi,(2X2 to 2X4) P3.0,40CM,10A/pin,16AWG
8 NVME + 4NVME					
Part Number	CBL-PWEX-1136-40 CBL-MCIO-1352M5FRF	CBL-CDAT-1062Y-45 CBL-KIT-1125HS-TNR-8N	MCP-220-00178-0B	BPN-NVME5-HS119N-S4R	CBL-MCIO-1343M5FRF
Qty	1 1	1 1	4	1	1
Description	MicroHi,(2X2 to 2X4) P3.0,40CM,10A/pin,16AWG MCIO x8 (FR to STR), FFC,52cm,30AWG	Picoblade 1.25 (1x4 to 2x 1x4),45cm,26AWG 8 NVME cable kit	2.5 thin profile drive tray, Orange tab (for hotswap NVMe drive)	1U 4-slot backplane, 4x SAS3/SATA3/NVME5	MCIO x8 (FR to STR), FFC,43cm,30AWG
8 NVME+ 4 SATA					
Part Number	CBL-KIT-1125HS-TNR-8N	CBL-MCIO-1255L4Y • eStore (https://store.supermicro.com/mcio-x8-to-2-slimsas-lp-x4-str-55cm-85ohm-rohs.html)	CBL-PWEX-1136-40	MCP-220-00178-0B	BPN-NVME5-HS119N-S4R
Qty	CBL-CDAT-1062Y-45	1	1	4	1
	1				
Description	8 NVME cable kit Picoblade 1.25 (1x4 to 2x 1x4),45cm,26AWG	MCIO x8 to 2 SlimSAS LP x4,STR,55cm	MicroHi,(2X2 to 2X4) P3.0,40CM,10A/pin,16AWG	2.5 thin profile drive tray, Orange tab (for hotswap NVMe drive)	1U 4-slot backplane, 4x SAS3/SATA3/NVME5
8 SAS					
Part Number	AOC-S3808L-L8iT OR AOC-S3908L-H8iR	CBL-SAST-1273LP-100			
Qty	1	1			
Description	8 int 12Gb/s SAS3 ports, x8 Gen4, HBA/ 8 int 12Gb/s ports, x8 Gen4, ROC- LP, 240 HDD w/exp	Slimline x8 (STR) to 2x SlimLLP x4 STR,69/83CM,100Ohm			
8 SAS + 4 SAS					
Part Number	BPN-NVME5-HS119N-S4R CBL-SAST-1273LP-100	CBL-CDAT-1062Y-45 AOC-S3816L-L16iT (/products/accessories/addon/AOC-S3816L-L16iT_S3808L-L8iT.php) .OR AOC-S3916L-H16iR	CBL-PWEX-1136-40	MCP-220-00178-0B	CBL-SAST-1262LP-100
Qty	1 1	1 1	1	4	1
Description	1U 4-slot backplane, 4x SAS3/SATA3/NVME5 Slimline x8 (STR) to 2x SlimLLP x4 STR,69/83CM,100Ohm	Picoblade 1.25 (1x4 to 2x 1x4),45cm,26AWG 16 int 12Gb/s SAS3 ports,x8 Gen4, HBA/ AOC with SAS3916 controller (U3) and 240PD RAID Key	MicroHi,(2X2 to 2X4) P3.0,40CM,10A/pin,16AWG	2.5 thin profile drive tray, Orange tab (for hotswap NVMe drive)	Slimline x8 (STR) to SlimLineLP x4 STR,98CM,100Ohm
8 SATA					
Part Number	CBL-CDAT-1062Y-45	CBL-MCIO-1255L4Y • eStore (https://store.supermicro.com/mcio-x8-to-2-slimsas-lp-x4-str-55cm-85ohm-rohs.html)			
Qty	1	1			

Description	Picoblade 1.25 (1x4 to 2x1x4),45cm,26AWG	MCIO x8 to 2 SlimSAS LP x4,STR,55cm						
8 SATA + 4 SATA								
Part Number	CBL-PWEX-1136-40	MCP-220-00178-0B	BPN-NVME5-HS119N-S4R	CBL-CDAT-1062Y-45	CBL-MCIO-1255L4Y-  Store (https://store.supermicro.com/x8-to-2-slimsas-lp-x4-str-55cm-85ohm-rohs.html).			
Qty	1	4	1	1	2			
Description	MicroHi,(2X2 to 2X4) P3.0,40CM,10A/pin,16AWG	2.5 thin profile drive tray, Orange tab (for hotswap NVMe drive)	1U 4-slot backplane, 4x SAS3/SATA3/NVME5	Picoblade 1.25 (1x4 to 2x1x4),45cm,26AWG	MCIO x8 to 2 SlimSAS LP x4,STR,55cm			
Cable Management Arm								
Part Number	MCP-290-11901-0N	MCP-290-00168-0N (***Requires MCP-290-11901-0N***)						
Qty	1	1						
Description	41" ball-bearing rail set for Hyper servers	Cable Management Arm, 1U height, 7.5" deep cable arm ***Requires MCP-290-11901-0N***						
Chassis Rear Handle Kit								
Part Number	MCP-290-11905-0N							
Qty	1							
Description	Hyper 1U rear handle kit for immersion cooling							
Drive Bay Dummy Cover								
Part Number	MCP-220-11902-0B							
Qty	-							
Description	Dummy cover for two 2.5" drive bays (top & bottom drive bays)							
Rail Set								
Part Number	MCP-290-21103-0N	MCP-290-11903-0N (included in the system)	MCP-290-11902-0N	MCP-290-11901-0N				
Qty	1	1	1	1				
Description	21.65" ball-bearing rail set for Hyper servers	30.5" ball-bearing rail set for Hyper servers	35.25" ball-bearing rail set for Hyper servers	41" ball-bearing rail set for Hyper servers				
Serial Port DTK Cable with PCIe Bracket								
Part Number	CBL-0010L							
Qty	1							
Description	9-Pin 26CM Serial Port DTK Cable with PCIe Bracket							
TPM security module								
Part Number	AOM-TPM-9670H-FIPS	AOM-TPM-9672V-FIPS	<u>AOM-TPM-9672V</u> (<u>./products/accessories/addon/AOM-TPM-9672V.php</u>).	AOM-TPM-9670V				
Qty	1	1	1	1				
Description	AOM-TPM-9670H-FIPS supporting FIPS 140-2	AOM-TPM-9672V-FIPS TPM 2.0 with 10 pins SPI support FIPS	SPI capable vertical TPM 2.0	SPI capable TPM 2.0 with Infineon 9670 controller; vertical form factor				

Certain products may not be available in your region

Global SKU (/de/products/SMC_global_skus)