AMD EPYC (H15) | 2U Rackmount | Server

Supermicro AS-2127H7-N

AMD EPYC (H15) · 2U Rackmount Server

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Form Factor	CPU	Memory
2U Rackmount	AMD EPYC™ 9006 SP7 Series Processors	Max Memory (1DPC): Up to 8TB 8000MT/s ECC DDR5 RDIMM/3DS RDIMM

Key Features

- Dual Socket AMD EPYC™ 9006 SP7 Series Processors up to 512 Cores
- Supports up to 4 PCIe 6.0 x16 slots
- Supports up to 32 DDR5 RDIMMs/MRDIMMs
- Flexible networking with 1 AIOM slot (OCP 3.0 SFF/TSFF compliant)
- Modular front drive bay design supporting up to 16 U.2/E3.S or 12 E1.S hot-swappable NVMe drives
- Front PCIe slot available on select configurations
- Dual Redundant Titanium Level power supplies (Power supply full redundancy based on configuration and application load)

Form Factor	2U Rackmount
Platform	AMD EPYC (H15)
CPU	Dual processor(s) AMD EPYC™ 9006 SP7 Series Processors
Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 8TB 8000MT/s ECC DDR5 RDIMM/3DS RDIMM
Drive Bays	Option A: Total 24 bays24 front hot-swap 2.5" SAS*/SATA* drive bays
Fans	6 counter-rotating 60x60x56mm Fan(s)
Power Supply	2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — AS-2127H7-N

Product SKUs

Part numbers	AS -2127H7-N

Motherboard

Motherboard	A+ Motherboard® H15DPH

Processor

CPU	Dual processor(s) AMD EPYC™ 9006 SP7 Series Processors
Core Count	Up to 512C/1024T
Note	Supports up to 600W TDP CPUs (Air Cooled)

System Memory

Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 8TB 8000MT/s ECC DDR5 RDIMM/3DS RDIMM Max Memory (1DPC): Up to 8TB 12800MT/s ECC DDR5 MRDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	Via AIOM View AIOM Options
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 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 ports (rear)
Video	1 VGA port
TPM	1 TPM header

System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM
BIOS Features	Plug and Play (PnP) USB Keyboard support ACPI 6.6 UEFI 2.11

Management

Software	SuperCloud Composer® (SCC) Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) KVM with dedicated LAN IPMI 2.0 Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New! IPMIView
Power configurations	ACPI/APM Power Management Power-on mode control for AC power loss recovery Power button override mechanism,

Security

Hardware	Trusted Platform Module (TPM) 2.0
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

PC Health Monitoring

Fan	Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
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

Certifications

Operating Systems	Venice: Oracle Linux 10.2 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2U Rackmount
Model	CSE-HS202-R000NFP

Dimensions and Weight

Height	3.5" (88.9 mm)

Width	17.26" (438.4 mm)
Depth	32.64" (829 mm)
Package	10.4" (H) x 26.5" (W) x 43.6" (D)
Weight	Gross Weight: 50.4 lbs (22.9 kg) Net Weight: 25.3 lbs (11.5 kg)
Available Color	Black front & silver body

Expansion Slots

PCI-Express (PCIe) Configuration	Option A*4 PCIe 6.0 x16 FHFL double-width slots 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) 4 PCIe 6.0 x16 FHFL double-width slots 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) Option B*3 PCIe 6.0 x16 FHFL double-width slots 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) 3 PCIe 6.0 x16 FHFL double-width slots 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) Option C*2 PCIe 6.0 x16 FHFL double-width slots 2 PCIe 6.0 x8 FHFL slots 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) 2 PCIe 6.0 x16 FHFL double-width slots 2 PCIe 6.0 x8 FHFL slots 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.)
CXL Support	Up to 4 CXL 3.1 x16 devices

Drive Bays / Storage

Drive Bays Configuration	Option A: Total 24 bays24 front hot-swap 2.5" SAS*/SATA* drive bays 24 front hot-swap 2.5" SAS*/SATA* drive bays Option B: Total 16 bays16 front hot-swap 2.5" PCIe 6.0 NVMe* drive bays 16 front hot-swap 2.5" PCIe 6.0 NVMe* drive bays Option C: Total 16 bays16 front hot-swap E3.S 1T PCIe 6.0 NVMe* drive bays 16 front hot-swap E3.S 1T PCIe 6.0 NVMe* drive bays Option D: Total 12 bays12 front hot-swap E1.S PCIe 6.0 NVMe* drive bays 12 front hot-swap E1.S PCIe 6.0 NVMe* 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 4.0 x4 NVMe slots (M-key 2280/22110; Optional, hot-swappable with RAID) View M.2 Options

System Cooling

Fans	6 counter-rotating 60x60x56mm Fan(s)
Air Shroud	2 Air Shrouds

Power Supply

2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-127Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2000W: 230-240Vac / 50-60Hz 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 83A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166A / Min: 0A (230Vac-240Vac)
12V SB	Max: 3.5A / Min: 0A
Output Type	Backplanes (gold finger)

2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-127Vac / 50-60Hz 1600W: 200-240Vac / 50-60Hz 1600W: 200-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 83.3A / Min: 0A (100Vac-127Vac) Max: 133.3A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2600W: 200-240Vac / 50-60Hz 2600W: 200-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 216A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

2x 2000W Redundant (1 + 1) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2000W: -48--60Vdc / 50-60Hz

+12V	Max: 166.6A / Min: 0A
12V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)

Operating Environment

Environmental Spec.	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)

Environmental / Recycling

Recycle	Return Server-End of Life Product