AMD EPYC (H14) | 2U Rackmount | Server

Supermicro AS-2116CS-TN

AMD EPYC (H14) · 2U Rackmount Server

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Form Factor
2U Rackmount

CPU
AMD EPYC™ 9005/9004 Series Processors

Memory
Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM/3DS RDIMM (AMD EPYC™ 9005 Series Processor)

Key Features

- Single AMD EPYC™ 9005/9004 Series Processor
- Support up to 12 DDR5 DIMM slots (1DPC), speed up to 6400MT/s
- Flexible networking with up to 1 OCP 3.0 compatible AIOM slots
- Up to 3 PCIe 5.0 x16 FHFL + 2 PCIe 5.0 x16 FHHL + 1 PCIe 5.0 x16 AIOM slots
- Up to 24 front hot-swap 2.5" SATA/NVMe drive bays

Form Factor	2U Rackmount
Platform	AMD EPYC (H14)
CPU	Single processor(s) AMD EPYC™ 9005/9004 Series Processors
Memory	Slot Count: 12 DIMM slots/12 Channels Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM/3DS RDIMM (AMD EPYC™ 9005 Series Processor)
Drive Bays	Default: Total 8 bays8 front hot-swap 2.5" NVMe drive bays
Fans	6x 60x60x56mm Fan(s)
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — AS-2116CS-TN

Product SKUs

Part numbers	AS -2116CS-TN

Motherboard

Motherboard	A+ Motherboard® H14SHM

Processor

CPU	Single processor(s) AMD EPYC™ 9005/9004 Series Processors
Core Count	Up to 192C/384T
Note	Supports up to 500W TDP CPUs * *Air Cooled CPUs with TDP over 360W only supported under specific conditions. Contact a Supermicro representative for details.

System Memory

Memory	Slot Count: 12 DIMM slots/12 Channels Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM/3DS RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM/3DS RDIMM (AMD EPYC™ 9004 Series Processor) View Memory Options
Memory Voltage	1.1V

On-Board Devices

Network Connectivity	Via AIOM View AIOM Options View AOC Options

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	1 USB 3.0 port (Rear) (via DC-SCM) 1 USB 2.0 port (Rear) (via DC-SCM)
Video	1 VGA port (via DC-SCM)
TPM	1 TPM header

System BIOS

BIOS Type	AMI 32MB SPI Flash ROM

BIOS Features	ACPI 6.4 Plug and Play (PnP) SMBIOS 3.5 or later UEFI 2.8 USB Keyboard support

Management

Software	SuperCloud Composer® (SCC) 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!
Power configurations	ACPI Power Management Power-on mode control for AC power loss recovery Power button override mechanism,

Security

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
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	Turin: Oracle Linux 9.4, RHEL 9.4, RHEL 10.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2U Rackmount
Model	CSE-MD201TS-R000NDFP

Dimensions and Weight

Height	3.47" (88 mm)
Width	17.26" (438.4 mm)
Depth	30.8" (780 mm)
Package	10.67" (H) x 26.81" (W) x 43.66" (D)
Weight	Gross Weight: 76.06 lbs (34.5 kg) Net Weight: 51.15 lbs (23.2 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID button
LED	LAN1 activity LAN2 activity Power On/Off Power status System information

Expansion Slots

PCI-Express (PCIe) Configuration	Option A*6 PCIe 5.0 x8 FHFL slots 2 PCIe 5.0 x8 FHHL slots 6 PCIe 5.0 x8 FHFL slots 2 PCIe 5.0 x8 FHHL slots Default1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option B*3 PCIe 5.0 x16 FHFL double-width slots 2 PCIe 5.0 x16 FHHL slots 3 PCIe 5.0 x16 FHFL double-width slots 2 PCIe 5.0 x16 FHHL slots (*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.) View AOC Options
CXL Support	Up to 2 CXL 2.0 x16 devices

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 2.5" NVMe drive bays 8 front hot-swap 2.5" NVMe drive bays Option A: Total 24 bays24 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays 24 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays Option B: Total 16 bays16 front hot-swap 2.5" SAS*/SATA* drive bays 16 front hot-swap 2.5" SAS*/SATA* drive bays (*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) View Drive Options
M.2	2 M.2 PCIe 3.0 x2 NVMe slots (M-key 2280/22110; Optional Configuration) View M.2 Options

System Cooling

Fans	6x 60x60x56mm Fan(s)
Air Shroud	1 Air Shroud

Power Supply

2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	800W: 100-127Vac / 50-60Hz 1000W: 200-240Vac / 50-60Hz
+12V	Max: 66.7A (100Vac-127Vac) Max: 83A (200Vac-240Vac)
12V SB	Max: 2.1A
Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

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

Dimension (WxHxL)	73.5 x 40 x 185 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 3200W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	1000W: 100-127Vac / 50-60Hz 2900W: 200-207Vac / 50-60Hz 3000W: 207-220Vac / 50-60Hz 3200W: 220-240Vac / 50-60Hz 3200W: 0240Vdc / 50-60Hz (for CQC only)
+12V	Max: 82A / Min: 0A (100Vac-127Vac) Max: 237.7A / Min: 0A (200Vac-207Vac) Max: 245.9A / Min: 0A (207Vac-220Vac) Max: 262.3A / Min: 0A (220Vac-240Vac)
12V SB	Max: 3A / Min: 0A
Output Type	Backplanes (gold finger)

2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	1200W: 100-240Vac / 50-60Hz 1200W: 0240Vdc / 50-60Hz (for CCC only)
+12V	Max: 100A / Min: 0A (100Vac-240Vac)
12V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)

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

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	1200W: 100-127Vac / 50-60Hz 1600W: 200-240Vac / 50-60Hz 1600W: 0240Vdc / 50-60Hz (for CQC only)
+12V	Max: 100A / Min: 0A (100Vac-127Vac) Max: 133.3A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3A / 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 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)