AMD EPYC (H14) | 1U Rackmount | Server

Supermicro AS-1116CS-TN

AMD EPYC (H14) · 1U Rackmount Server

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Form Factor **1U Rackmount**	CPU **AMD EPYC™ 9005/9004 Series Processors**
GPU **Up to 2 single-width GPUs**	Memory **Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)**

Key Features

- All-in-one platform for cloud data centers, based on the OCP Data Center Modular Hardware System (DC-MHS) with flexible I/O and storage configurationsBased on Modular DeNsity Optimized HPM Form Factor (M-DNO)Support DC-SCM module with OpenBMC
- Single AMD EPYC™ 9005/9004 Series Processor
- Support up to DDR5 12 DIMM slots (1DPC), speed up to 6400MT/s(Please check System Memory Section for detail)
- 2 PCIe 5.0 x16 FHHL slots
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible)1 RJ45 1 GbE Dedicated BMC LAN Port (DC-SCM)
- 8 Hot-swap 2.5" NVMe/SATA/SAS drive baysOptional 4 Hot-swap 2.5" NVMe/SAS/SATA drive baysOptional RAID support via storage add-on card
- Support up to 2 FHHL GPU accelerator cards
- Dual 1000W / 2000W Redundant Titanium Level power supplies(Power supply full redundancy based on configuration and application load)

Form Factor	1U Rackmount
Platform	AMD EPYC (H14)
CPU	Single processor(s) AMD EPYC™ 9005/9004 Series Processors
Max GPU Count	Up to 2 single-width GPUs
Memory	Slot Count: 12 DIMM slots/12 Channels Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)

Drive Bays	Default: Total 8 bays8 front hot-swap 2.5" PCIe 5.0 NVMe*/SAS*/SATA* drive bays
Fans	Up to 8 Counter-Rotating PWM 40x40x56mm Fan(s)
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — AS-1116CS-TN

Product SKUs

Part numbers	AS -1116CS-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 300W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 2 single-width GPUs
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect

System Memory

Memory	Slot Count: 12 DIMM slots/12 Channels Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 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
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	1 USB 2.0 Type-A port (Rear) 1 USB 3.2 Gen1 Type-A port (Rear)
Video	1 VGA port (Rear)
TPM	1 TPM header

System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM
BIOS Features	Plug and Play (PnP) SMBIOS 3.5 or later UEFI 2.8 USB Keyboard support ACPI 6.5

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) OOB Management Package (SFT-OOB-LIC) 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 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

CPU	Monitors for CPU Cores, Chipset Voltages, Memory
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
Enterprise Solutions	VMWare vSAN

Chassis

Form Factor	1U Rackmount
Model	CSE-MD101TS-R000NDP

Dimensions and Weight

Height	1.7" (43 mm)
Width	17.2" (437 mm)
Depth	29.4" (747 mm)
Package	8.1" (H) x 23.8" (W) x 40.6" (D)
Weight	Gross Weight: 49 lbs (22.2 kg) Net Weight: 34 lbs (15.4 kg)
Available Color	Black

Front Panel

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

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 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" PCIe 5.0 NVMe*/SAS*/SATA* drive bays 8 front hot-swap 2.5" PCIe 5.0 NVMe*/SAS*/SATA* drive bays Option A: Total 12 bays12 front hot-swap 2.5" PCIe 5.0 NVMe*/SAS*/SATA* drive bays 12 front hot-swap 2.5" PCIe 5.0 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) View NVMe Options View Drive Options
M.2	2 M.2 PCIe 3.0 x2 NVMe slots (M-key 2280(default)/22110) View M.2 Options

System Cooling

Fans	Up to 8 Counter-Rotating PWM 40x40x56mm 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 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: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)