AMD EPYC (H15) | 1U Rackmount | Server

Supermicro AS-1117C7-N

AMD EPYC (H15) · 1U Rackmount Server

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Form Factor
1U Rackmount

CPU
AMD EPYC™ 9006 SP7 Series Processors

Memory
Max Memory (1DPC): Up to 4TB 8000MT/s ECC DDR5 RDIMM/3DS RDIMM

Key Features

- Single Socket AMD EPYC™ 9006 SP7 Series Processor up to 256 cores
- Supports up to 2 PCIe 6.0 x16 FHHL slots
- Supports up to 16 DDR5 RDIMMs/MRDIMMs
- Flexible networking with 1 AIOM slot (OCP 3.0 SFF compliant)
- Modular front drive bay design supporting up to 12 2.5"/E1.S/E3.S hot-swappable NVMe/SAS/SATA drives
- Dual Redundant Titanium Level power supplies (Power supply full redundancy based on configuration and application load)

Form Factor	1U Rackmount
Platform	AMD EPYC (H15)
CPU	Single processor(s) AMD EPYC™ 9006 SP7 Series Processors
Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 8000MT/s ECC DDR5 RDIMM/3DS RDIMM
Drive Bays	Default: Total 12 bays12 front hot-swap 2.5" 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-1117C7-N

Product SKUs

Part numbers	AS -1117C7-N

Motherboard

Motherboard	A+ Motherboard® H15SPHM

Processor

CPU	Single processor(s) AMD EPYC™ 9006 SP7 Series Processors
Core Count	Up to 256C/512T
Note	Supports up to 600W TDP CPUs (Air Cooled)

System Memory

Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 8000MT/s ECC DDR5 RDIMM/3DS RDIMM Max Memory (1DPC): Up to 4TB 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	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
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	Venice: Oracle Linux 10.2, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	1U Rackmount
Model	CSE-MD102TS-R000NDFP

Dimensions and Weight

Height	1.71" (43.6 mm)
Width	17.2" (438.4 mm)
Depth	30.8" (782 mm)
Package	9.29" (H) x 26.69" (W) x 43.54" (D)
Weight	Gross Weight: 70.6 lbs (32 kg) Net Weight: 38 lbs (17 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	Default2 PCIe 6.0 x16 FHHL slots 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) 2 PCIe 6.0 x16 FHHL slots 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible)
CXL Support	Up to 2 CXL 3.1 x16 devices

Drive Bays / Storage

Drive Bays Configuration	Default: Total 12 bays12 front hot-swap 2.5" SAS*/SATA* drive bays 12 front hot-swap 2.5" SAS*/SATA* drive bays Option A: Total 12 bays12 front hot-swap 2.5" PCIe 6.0 NVMe* drive bays 12 front hot-swap 2.5" PCIe 6.0 NVMe* drive bays Option B: Total 12 bays12 front hot-swap E3.S 1T PCIe 6.0 NVMe* drive bays 12 front hot-swap E3.S 1T PCIe 6.0 NVMe* drive bays Option C: 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 x2 NVMe slots (M-key 2280/22110) 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)

2x 3200W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	2700W: 200-238Vac / 50-60Hz 3200W: 238.1-277Vac / 50-60Hz
12V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	Titanium Level

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)