AMD EPYC (H15) | 2U Rackmount | Server

Supermicro AS-2117GT7-DNF

AMD EPYC (H15) · 2U Rackmount Server

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Form Factor	CPU
2U Rackmount	AMD EPYC™ 9006 SP7 Series Processors
GPU	**Memory**
Up to 1 double-width or 2 single-width GPUs	Max Memory (1DPC): Up to 4TB 8000MT/s ECC DDR5 RDIMM/3DS RDIMM

Key Features

- Two hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:
- Single Socket AMD EPYC™ 9006 SP7 Series Processors up to 256 cores
- Support for up to 1 double-width or 2 single-width GPU accelerator cards
- Supports up to 2 PCIe 6.0 x16 FHHL slots or 1 PCIe 6.0 x16 FH/10.5"L Double Width slot
- Supports up to 16 DDR5 RDIMMs/MRDIMMs
- Flexible networking with 1 AIOM slot (OCP 3.0 SFF compliant)
- Up to 8 front hot-swap 2.5"/E1.S/E3.S NVMe drive bays
- 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	Single processor(s) AMD EPYC™ 9006 SP7 Series Processors
Max GPU Count	Up to 1 double-width or 2 single-width GPUs
Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 8000MT/s ECC DDR5 RDIMM/3DS RDIMM
Drive Bays	Default: Total 4 bays4 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays
Fans	2x 18.7K RPM Heavy Duty 8cm Fan(s)
Power Supply	2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — AS-2117GT7-DNF

Product SKUs

Part numbers	AS -2117GT7-DNF

Motherboard

Motherboard	A+ Motherboard® H15SPT-G

Processor (per Node)

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)

GPU (per Node)

Max GPU Count	Up to 1 double-width or 2 single-width GPUs

System Memory (per Node)

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 (per Node)

Network Connectivity	Via IO Module View AIOM Options

Input / Output (per Node)

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 ports
Video	1 VGA port
TPM	1 TPM header

System BIOS

BIOS Type	AMI 64MB Flash ROM

Management

Software	SuperCloud Composer® (SCC) Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!

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
Voltage	+12V, +12V standby, +3.3V, +3.3V standby, +5V, +5V standby, 1.8V standby, VBAT

Certifications

Operating Systems	Venice: Oracle Linux 10.2, RHEL 10.2, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2U Rackmount
Model	CSE-GT222DF-000NDTFP

Dimensions and Weight

Height	3.46" (88 mm)
Width	17.67" (449 mm)
Depth	31.8" (807.7 mm)
Package	13.46" (H) x 29.13" (W) x 46.46" (D)
Weight	Gross Weight: 84.2 lbs (38.2 kg) Net Weight: 64.2 lbs (29.1 kg)

Available Color	Silver

Expansion Slots (per Node)

PCI-Express (PCIe) Configuration	Option A*2 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) Option B*1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) Option C*1 PCIe 6.0 x16 FH/10.5"L double-width slot 1 PCIe 6.0 x16 AIOM slot (OCP 3.0 compatible) 1 PCIe 6.0 x16 FH/10.5"L double-width slot 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 2 CXL 3.1 x16 devices

Drive Bays / Storage (per Node)

Drive Bays Configuration	Default: Total 4 bays4 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays 4 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays Option A: Total 8 bays8 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays 8 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays Option B: Total 8 bays8 front hot-swap E1.S PCIe 6.0 NVMe* drive bays 8 front hot-swap E1.S PCIe 6.0 NVMe* drive bays Option C: Total 8 bays8 front hot-swap E3.S 1T PCIe 6.0 NVMe* drive bays 8 front hot-swap E3.S 1T PCIe 6.0 NVMe* drive bays (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)
M.2	2 M.2 PCIe 5.0 x4 NVMe slots (M-key 2280/22110; Optional Configuration) View M.2 Options

System Cooling

Fans	2x 18.7K RPM Heavy Duty 8cm Fan(s) 2x 17.6K RPM Heavy Duty 8cm Fan(s)

Power Supply

2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	106.5 x 84 x 245.3 mm

Input	1200W: 100-127Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2090W: 230-240Vac / 50-60Hz (for TUV/CB) 2090W: 180-220Vac / 50-60Hz (For UL/cUL Only) 2090W: 230-240Vdc / 50-60Hz (for CQC only) 2200W: 220-240Vac / 50-60Hz (For UL/cUL Only)
+12V	Max: 100A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 174.17A / Min: 0A (180Vac-220Vac) (For UL/cUL Only) Max: 174.17A / Min: 0A (180Vdc-220Vdc) (For UL/cUL only) Max: 174.17A (230Vac-240Vac) Max: 183.3A / Min: 0A (220Vac-240Vac) Max: 183.3A / Min: 0A (220Vac-240Vac) (For UL/cUL only)
12V SB	Max: 2A / Min: 0A
Output Type	Backplanes (gold finger)

2x 3000W Redundant (1 + 1) Titanium (certification pending) Level (96%) power supplies

Dimension (WxHxL)	106.5 x 84 x 245.3 mm
Input	2880W: 240-240Vdc / 50-60Hz (for CQC only) 3000W: 200-240Vac / 50-60Hz
+12V	Max: 240A / Min: 0A (240Vdc-240Vdc) (for CQC safety rating only) Max: 250A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3A / Min: 0A
Output Type	Backplanes (gold finger)

Operating Environment

RoHS	RoHS Compliant
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)