Intel Xeon (X14) | 2U Rackmount | Server

Supermicro SYS-222C-TN

Intel Xeon (X14) · 2U Rackmount Server

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Form Factor	**2U Rackmount**
CPU	**Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores**
GPU	**Up to 2 double-width or 4 single-width GPUs**
Memory	**Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- Designed for Data Center Modular Hardware Systems (DC-MHS) to simplify CSP deployments and serviceability
- Optimized power & balanced performance for cloud applications
- Server management flexibility with OpenBMC

Form Factor	2U Rackmount
Platform	Intel Xeon (X14)
CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
Max GPU Count	Up to 2 double-width or 4 single-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), L4, L40S, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition, RTX 2000 Ada, RTX 4000 Ada Generation
Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays
Fans	Up to 4x 8cm heavy duty fans with optimal fan speed control
Power Supply	2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-222C-TN

Product SKUs

Part numbers	SYS-222C-TN

Motherboard

Motherboard	Super X14DBHM

Processor

CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
Core Count	P-cores: Up to 86C/172T; Up to 336MB Cache per CPU E-cores: Up to 144C/144T; Up to 108MB Cache per CPU
Note	Supports up to 350W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 2 double-width or 4 single-width GPUs
Supported GPU	NVIDIA PCIe: H200 NVL (141GB), L4, L40S, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition, RTX 2000 Ada, RTX 4000 Ada Generation View GPU Options

System Memory

Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 1TB 8000MT/s ECC DDR5 MRDIMM (P-core only) Max Memory (2DPC): Up to 8TB 6000MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

NVMe	NVMe; RAID 0/1/5/10 support(VROC HW key required) View NVMe Options
Network Connectivity	Via AIOM View AIOM Options View AOC Options

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 ROM

Management

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

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

Certifications

Operating Systems	ESXi 8.0 U3, ESXi 9.0, 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-DC201TS-R000NP

Dimensions and Weight

Height	3.47" (88 mm)
Width	17.25" (438 mm)
Depth	30.7" (780 mm)
Package	9.4" (H) x 23.5" (W) x 43.2" (D)

Weight	Gross Weight: 83.78 lbs (38 kg) Net Weight: 61.73 lbs (28 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off UID button
LED	HDD activity LAN1 activity LAN2 acticity Power Fail Power status System information (overheat/UID)

Expansion Slots

PCI-Express (PCIe) Configuration	Default4 PCIe 5.0 x16 (in x16) FHFL slots 1 PCIe 5.0 x8 (in x16) FHFL slot 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 4 PCIe 5.0 x16 (in x16) FHFL slots 1 PCIe 5.0 x8 (in x16) FHFL slot 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) Option A2 PCIe 5.0 x16 (in x16) FHFL slots 1 PCIe 5.0 x8 (in x16) FHFL slot 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 2 PCIe 5.0 x16 (in x16) FHFL slots 1 PCIe 5.0 x8 (in x16) FHFL slot 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) Option B6 PCIe 5.0 x16 (in x16) FHFL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 6 PCIe 5.0 x16 (in x16) FHFL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays Option A: Total 16 bays16 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays 16 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays Option B: Total 24 bays24 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays 24 front hot-swap 2.5" PCIe 5.0 x4 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
M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default)/2280; VROC required for RAID) View M.2 Options

System Cooling

Fans	Up to 4x 8cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

Power Supply

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

Dimension (WxHxL)	106.5 x 82.4 x 203.3 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: A / Min: 0A Max: 100A / Min: 0A (100Vac-127Vac) Max: 165A / Min: 0A (200Vac-220Vac) Max: 166.6A / Min: 0A (220Vac-230Vac) Max: 174.17A / Min: 0A (180Vac-220Vac) (For UL/cUL Only) Max: 174.17A / Min: 0A (230Vac-240Vac) (for TUV/CB) Max: 174.17A / Min: 0A (230Vdc-240Vdc) (For CQC only) Max: 183.33A / Min: 0A (220Vac-240Vac) (for UL/cUL only)
12V SB	Max: 2A / 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 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

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 (-30°F to 140°F) Operating Relative Humidity: 8% to 80% (Non-Condensing) Non-operating Relative Humidity: 8% to 90% (Non-Condensing)

Environmental / Recycling

Recycle	Return Server-End of Life Product