Intel Xeon (X13) | 2U Rackmount | Server

Supermicro SYS-521C-NR

Intel Xeon (X13) · 2U Rackmount Server

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Form Factor	CPU
2U Rackmount	**5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors**
GPU	**Memory**
Up to 2 double-width or 4 single-width GPUs	**Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM**

Key Features

- Single Socket E (LGA-4677) 4th/5th Gen Intel® Xeon® Scalable processors. Up to 350W TDP
- Intel® C741 Chipset
- 16 DIMMs; Supports 3DS DDR5 RDIMM. Up to 5600 MHz
- Single AIOM with NCSI (OCP 3.0) for networking, 1 dedicated IPMI LAN
- 12 Front hot-swap 3.5" SATA3 drive bays (Optional 2 hybrid Gen5 NVMe), SAS3 with additional SAS controller card
- Redundant Titanium 1200W Power Supplies

Form Factor	2U Rackmount
Platform	Intel Xeon (X13)
CPU	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Max GPU Count	Up to 2 double-width or 4 single-width GPUs
Supported GPU	NVIDIA PCIe: A1000, A16, L4, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 2000 Ada, RTX 4000 Ada Generation, RTX 4000 SFF Ada Generation, RTX 4500 Ada
Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 12 bays12 front hot-swap 3.5" SAS*/SATA drive bays
Fans	Up to 3 heavy duty PWM 80x80x38mm Fan(s)
Power Supply	2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-521C-NR

Product SKUs

Part numbers	SYS-521C-NR

Motherboard

Motherboard	Super X13SEDW-F

Processor

CPU	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Core Count	Up to 64C/128T; Up to 320MB Cache
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: A1000, A16, L4, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 2000 Ada, RTX 4000 Ada Generation, RTX 4000 SFF Ada Generation, RTX 4500 Ada NVIDIA: RTX A400 View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect

System Memory

Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 4TB 4400MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

SATA	SATA (6Gbps) ; RAID 0/1/5/10 support
NVMe	NVMe; RAID 0/1 support(Intel® VROC RAID key required) View NVMe Options
Chipset	Intel® C741
Network Connectivity	Via AIOM View AIOM Options View AOC Options

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 2.0 ports (header) 2 USB 3.2 Gen1 Type-A ports (rear)
Video	1 VGA port
Serial	1 COM port (rear)
TPM	1 TPM header

System BIOS

BIOS Type	AMI 32MB SPI Flash EEPROM

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) SuperServer Automation Assistant (SAA) New!
Power configurations	ACPI/APM 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

PC Health Monitoring

CPU	8 Phase-switching voltage regulator 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

Certifications

Operating Systems	Hypervisor 8.2.1, Oracle Linux 9.0, RHEL 9.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2U Rackmount
Model	CSE-LA26TS-R1K23AWP1

Dimensions and Weight

Height	3.5" (89 mm)
Width	17.2" (437 mm)
Depth	25.5" (648 mm)
Package	11.4" (H) x 26.7" (W) x 34.5" (D)
Weight	Gross Weight: 59 lbs (26.76 kg) Net Weight: 33 lbs (15 kg)
Available Color	Black front & sliver body

Front Panel

Buttons	Power On/Off Universal Information (UID)
LED	Drive activity Network activity Power status Universal Information (UID)

Expansion Slots

PCI-Express (PCIe) Configuration	Default4 PCIe 5.0 x8 FHFL slots 2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) 4 PCIe 5.0 x8 FHFL slots 2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option A4 PCIe 5.0 x8 FHFL slots 2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible) 4 PCIe 5.0 x8 FHFL slots 2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible) Option B2 PCIe 5.0 x16 FHFL double-width slots 2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible) 2 PCIe 5.0 x16 FHFL double-width slots 2 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible) View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 12 bays12 front hot-swap 3.5" SAS*/SATA drive bays 12 front hot-swap 3.5" SAS*/SATA drive bays Option A: Total 12 bays2 front hot-swap 3.5" PCIe 5.0 x4 NVMe*/SAS*/SATA drive bays 10 front hot-swap 3.5" SAS*/SATA drive bays 2 front hot-swap 3.5" PCIe 5.0 x4 NVMe*/SAS*/SATA drive bays 10 front hot-swap 3.5" SAS*/SATA drive bays (*NVMe/SAS 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 2280/22110) View M.2 Options

System Cooling

Fans	Up to 3 heavy duty PWM 80x80x38mm Fan(s)
Air Shroud	1 Air Shroud

Power Supply

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

Dimension (WxHxL)	76 x 40 x 336 mm
Input	1000W: 100-127Vac / 50-60Hz 1200W: 200-240Vac / 50-60Hz 1200W: 200-240Vdc / 50-60Hz (for CCC only)

+12V	Max: 83A / Min: 0A (100Vac-127Vac) Max: 100A / Min: 0A (200Vac-240Vac) Max: 100A / Min: 0A (200Vdc-240Vdc)
5V SB	Max: 4A / 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)