Intel Xeon (X13) | 2U Rackmount | Server

Supermicro SYS-621C-TN12R

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 6 single-width GPUs	**Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM**

Key Features

- Dual sockets E (LGA-4677) 5th and 4th Gen Intel® Xeon® Scalable processors
- 16 DIMMs up to 4TB 3DS ECC DDR5-5600: RDIMM
- 4 PCIe 5.0 x8 FHHL (optional: combine into 2 PCIe 5.0 x16); 2 PCIe 5.0 x16 FHHL; 2 PCIe 5.0 x4 NVMe M.2
- Dual AIOM (OCP 3.0) slots with NCSI for networking, 1 dedicated IPMI LAN
- 12x 3.5/2.5" hot-swap hybrid NVMe/SATA/SAS drive bays
- 3 heavy duty fans with optimal fan speed control, 1 air shroud
- 1200W redundant Titanium level 100-240Vac and 200-240 Vdc power supplies
- 1 VGA, 1 COM, 2 USB 3.0 (rear)

Form Factor	2U Rackmount
Platform	Intel Xeon (X13)
CPU	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Max GPU Count	Up to 2 double-width or 6 single-width GPUs
Supported GPU	NVIDIA PCIe: H100, H100 NVL, A2, L4, L40, L40S, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 4000 Ada Generation, RTX 4000 SFF Ada Generation, RTX A4000, RTX A4500, RTX A5000, RTX A6000
Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 12 bays12 front hot-swap 3.5" NVMe*/SAS*/SATA* drive bays

Fans	Up to 3x 8cm heavy duty fans with optimal fan speed control
Power Supply	2x 1200W Redundant Titanium Level (96%) Hot-plug power supplies

Full Specifications — SYS-621C-TN12R

Product SKUs

Part numbers	SYS-621C-TN12R

Motherboard

Motherboard	Super X13DDW-A

Processor

CPU	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Core Count	Up to 64C/128T; Up to 112.5MB Cache per CPU
Note	Supports up to 350W TDP CPUs (Air Cooled)* *Air Cooled CPUs with TDP over 270W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 2 double-width or 6 single-width GPUs
Supported GPU	NVIDIA PCIe: H100, H100 NVL, A2, L4, L40, L40S, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 4000 Ada Generation, RTX 4000 SFF Ada Generation, RTX A4000, RTX A4500, RTX A5000, RTX A6000 Intel PCIe: Intel Data Center GPU Flex 140, Intel Data Center GPU Flex 170 View GPU Options

System Memory

Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/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 0/1/5/10 support(VROC HW 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 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 ROM

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	ESXi 7.0 U3, ESXi 8.0, ESXi 9.0, Hypervisor 8.2.1, Oracle Linux 8.10, Oracle Linux 9.0, RHEL 8.7, RHEL 9.0, SAP HANA 2.0, SLES 12 SP5, SLES 15 SP4, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
Enterprise Solutions	VMWare vSAN SAP HANA

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 (in x16) FHFL slots 2 PCIe 5.0 x16 (in x16) FHHL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 4 PCIe 5.0 x8 (in x16) FHFL slots 2 PCIe 5.0 x16 (in x16) FHHL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) Option A2 PCIe 5.0 x16 (in x16) FHFL slots 2 PCIe 5.0 x16 (in x16) FHHL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 2 PCIe 5.0 x16 (in x16) FHFL slots 2 PCIe 5.0 x16 (in x16) FHHL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) Option B4 PCIe 5.0 x16 (in x16) FHFL slots 2 PCIe 5.0 x16 (in x16) FHHL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 4 PCIe 5.0 x16 (in x16) FHFL slots 2 PCIe 5.0 x16 (in x16) FHHL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) Option C2 PCIe 5.0 x16 (in x16) FHFL double-width slots 2 PCIe 5.0 x16 (in x16) FHHL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 2 PCIe 5.0 x16 (in x16) FHFL double-width slots 2 PCIe 5.0 x16 (in x16) FHHL slots 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) View AOC Options
CXL Support	Up to 2 CXL 1.1 x16/x8 Type 2/Type 3 devices

Drive Bays / Storage

Drive Bays Configuration	Default: Total 12 bays12 front hot-swap 3.5" NVMe*/SAS*/SATA* drive bays 12 front hot-swap 3.5" NVMe*/SAS*/SATA* drive bays Option A: Total 12 bays12 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays 12 front hot-swap 2.5" 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 5.0 x4 NVMe slots (M-key 2280(default); VROC required for RAID) View M.2 Options

System Cooling

Fans	Up to 3x 8cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

Power Supply

2x 1200W Redundant Titanium Level (96%) Hot-plug 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

RoHS	RoHS Compliant
Environmental Spec.	Name: A2 Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing)