Intel Xeon (X13) | 2U Rackmount | Server

Supermicro SYS-621P-TR

Intel Xeon (X13) · 2U Rackmount Server

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Form Factor
2U Rackmount

CPU
5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors

Memory
Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM

Key Features

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors,supports up to 300W TDP
- 16 DIMM slots, Up to 4TB DDR5-5600MHZ/4800MHz ECC Registered RDIMM
- 4 PCIe 5.0 x16 Low Profile (LP), 2 PCIe 5.0 x8 Low Profile (LP)
- 1200W Redundant Titanium level Power Supplies

Form Factor	2U Rackmount
Platform	Intel Xeon (X13)
CPU	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays4 front hot-swap 3.5" NVMe*/SAS*/SATA drive bays 4 front hot-swap 3.5" SAS*/SATA drive bays
Fans	Up to 3 middle 8cm Fan(s)
Power Supply	2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-621P-TR

Product SKUs

Part numbers	SYS-621P-TR

Motherboard

Motherboard	Super X13DEI

Processor

CPU	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Note	Supports up to 300W TDP CPUs (Air Cooled)

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)
Network Connectivity	2 RJ45 1GbE View AOC Options
BMC	ASPEED AST2600 BMC

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 2.0 ports (front) 4 USB 3.0 ports (rear)
Video	1 VGA port
Serial	1 COM port (Rear) 1 COM port (Front)
DOM	2 SuperDOM (Disk on Module) ports
TPM	1 TPM Onboard/port 80

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	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 8.0, 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-825BTS-R1K23LPP1

Dimensions and Weight

Height	3.5" (89 mm)
Width	17.2" (437 mm)
Depth	25.5" (647 mm)

Package	11.4" (H) x 26.7" (W) x 34.5" (D)
Weight	Gross Weight: 69 lbs (31.2 kg) Net Weight: 36.38 lbs (16.5 kg)
Available Color	Black

Front Panel

Buttons	Power On/Off System Reset
LED	HDD activity Network activity Power status System information (overheat/UID)

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x8 LP slots 4 PCIe 5.0 x16 LP slots 2 PCIe 5.0 x8 LP slots 4 PCIe 5.0 x16 LP slots View AOC Options
M.2	2 M.2 PCIe 4.0 x2 NVMe slots (M-key)

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays4 front hot-swap 3.5" NVMe*/SAS*/SATA drive bays 4 front hot-swap 3.5" SAS*/SATA drive bays 4 front hot-swap 3.5" NVMe*/SAS*/SATA drive bays 4 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 NVMe slots (M-key) View M.2 Options
Peripheral Bays	1 slim DVD bay (optional)

System Cooling

Fans	Up to 3 middle 8cm Fan(s)

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

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 (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)