Intel Xeon (X13) | Tower/4U Rackmount | Server

Supermicro SYS-741P-TR

Intel Xeon (X13) · Tower/4U Rackmount Server

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Form Factor	CPU
Tower/4U Rackmount	**5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors**
GPU	**Memory**
Up to 2 double-width or 2 single-width GPUs	**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 full height slot(s), 2 PCIe 5.0 x8 full height slot(s)
- 1200W Redundant Titanium level Power Supplies

Form Factor	Tower/4U 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 2 single-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, A16, L4, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO 4000 Blackwell SFF Edition, 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, NVIDIA RTX PRO™ 6000 Blackwell Workstation Edition, RTX 2000 Ada, RTX 4000 SFF Ada Generation, RTX 4500 Ada, RTX 5000 Ada, RTX 6000 Ada Generation, RTX A4000, T1000
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"/2.5" NVMe*/SAS*/SATA drive bays 4 front hot-swap 3.5"/2.5" SAS*/SATA drive bays
Fans	Up to 3 middle Fan(s)
Power Supply	2x 1200W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

Full Specifications — SYS-741P-TR

Product SKUs

Part numbers	SYS-741P-TR

Motherboard

Motherboard	Super X13DEI

Processor

CPU	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Core Count	Up to 60C/120T; Up to 160MB Cache per CPU
Note	Supports up to 300W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 2 double-width or 2 single-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, A16, L4, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO 4000 Blackwell SFF Edition, 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, NVIDIA RTX PRO™ 6000 Blackwell Workstation Edition, RTX 2000 Ada, RTX 4000 SFF Ada Generation, RTX 4500 Ada, RTX 5000 Ada, RTX 6000 Ada Generation, RTX A4000, T1000 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)
Chipset	Intel® C741
Network Connectivity	2 RJ45 1GbE View AOC Options

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 ports (front) 4 USB 3.0 ports (rear)
Video	1 VGA port

Serial	1 COM port (rear)
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	RHEL 9.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	Tower/4U Rackmount
Model	CSE-745BTS-R1K23BP

Dimensions and Weight

Height	17.8" (452 mm)
Width	7" (178 mm)
Depth	25.5" (647 mm)
Package	24.6" (H) x 14" (W) x 31.3" (D)
Weight	Gross Weight: 73.5 lbs (33.9 kg) Net Weight: 56 lbs (25.9 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 FHFL slots 4 PCIe 5.0 x16 FHFL slots 2 PCIe 5.0 x8 FHFL slots 4 PCIe 5.0 x16 FHFL 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"/2.5" NVMe*/SAS*/SATA drive bays 4 front hot-swap 3.5"/2.5" SAS*/SATA drive bays 4 front hot-swap 3.5"/2.5" NVMe*/SAS*/SATA drive bays 4 front hot-swap 3.5"/2.5" 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	3 5.25" DVD bays (optional)

System Cooling

Fans	Up to 3 middle Fan(s) Up to 2 rear Fan(s)

Power Supply

2x 1200W Redundant (1 + 1) 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)
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)