Intel Xeon (X13) | Tower Rackmount | Workstation

Supermicro SYS-741GE-TNRT

Intel Xeon (X13) · Tower Rackmount Server

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

Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support
- 16 DIMM slots Up to 4TB: 16x 256 GB DRAM Memory Type: 5600MTs ECC DDR5
- Up to 4x double width, full length GPUs4x PCIe 5.0 x16 (double-width) slots, 3x PCIe 5.0 x16 (single-width) slots
- Total 8x 3.5" Hot-swap SATA/NVMe/SAS drive bays2x M.2 NVMe for boot drive onlyUp to 8x NVMe drives (8 NVMe drives supported by default)
- 4 Removable heavy duty fans w/ Optimal Fan Speed Control
- 2x 2000W (1+1) Redundant Power Supplies, Titanium Level

Form Factor	Tower 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 4 double-width GPUs
Supported GPU	NVIDIA PCIe: H100, H100 NVL, A100, A30, L4, L40, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 4000 Ada Generation, RTX 6000 Ada Generation, RTX A4000, RTX A5500, RTX A6000
Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap 3.5" NVMe/SAS/SATA drive bays
Fans	Up to 4 heavy duty fans with optimal fan speed control
Power Supply	2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-741GE-TNRT

Product SKUs

Part numbers	SYS-741GE-TNRT

Motherboard

Motherboard	Super X13DEG-QT

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 320MB Cache per CPU
Note	Supports up to 350W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 4 double-width GPUs
Supported GPU	NVIDIA PCIe: H100, H100 NVL, A100, A30, L4, L40, L40S, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 4000 Ada Generation, RTX 6000 Ada Generation, RTX A4000, RTX A5500, RTX A6000 AMD PCIe: Instinct™ MI210 View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	NVIDIA® NVLink™ Bridge (optional)

System Memory

Memory	Slot Count: 16 DIMM slots 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)
Chipset	Intel® C741
Network Connectivity	2 RJ45 10GbE with Intel® X550-AT2 View AOC Options

Input / Output

Video	1 VGA port (Rear)

Serial	1 COM port (rear)
Audio	Front Audio
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	Power-on mode for AC power recovery 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

PC Health Monitoring

CPU	8+4 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 8.0, 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	Tower Rackmount
Model	CSE-749TS-R2K05BP

Dimensions and Weight

Height	18.32" (465.4 mm)
Width	6.96" (177 mm)
Depth	26.71" (678.5 mm)
Package	12.59" (H) x 26.85" (W) x 37.95" (D)
Weight	Gross Weight: 62 lbs (28.1 kg) Net Weight: 46 lbs (20.9 kg)
Available Color	Black

Front Panel

Buttons	Power On/Off button System Reset button
LED	Hard drive activity LED Network activity LEDs Power status LED System Overheat & Power Fail LED

Expansion Slots

PCI-Express (PCIe) Configuration	Default7 PCIe 5.0 x16 FHFL slots View AOC Options
M.2	2 M.2 PCIe 5.0 x4 NVMe slots (M-key)

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 3.5" NVMe/SAS/SATA drive bays Option A: Total 8 bays8 front hot-swap 2.5" NVMe/SAS/SATA drive bays View NVMe Options View Drive Options
M.2	2 M.2 NVMe slots (M-key) View M.2 Options

System Cooling

Fans	Up to 4 heavy duty fans with optimal fan speed control

Power Supply

2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-120Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2000W: 230-240Vac / 50-60Hz 2000W: 200-240Vac / 50-60Hz (for UL/cUL only)
+12V	Max: 83.3A / Min: 0A (100Vac-120Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166.7A / Min: 0A (200Vac-240Vac) (for UL/cUL only) Max: 166.7A / Min: 0A (230Vac-240Vac)
12V SB	Max: 2.1A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

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 (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)