

GPU SuperServer SYS-741GE-TNRT

DP Intel Workstation with up to 4 NVIDIA H100 or A100 PCIe GPUs



Key Applications

High Performance Computing, VDI, AI/Deep Learning Training, Media/Video Streaming, Cloud Gaming, Animation and Modeling, Design & Visualization, 3D Rendering, Diagnostic Imaging, AI Training,

Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support;
- 16 DIMM slots Up to 4TB: 16x 256 GB DRAM Memory Type: 5600MT/s ECC DDR5;
- Up to 4x double width, full length GPUs
4x 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 bays
2x M.2 NVMe for boot drive only
Up 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 Enclosure: 177 x 465.4 x 678.5mm (6.96" x 18.32" x 26.71") Package: 682 x 320 x 964mm (26.85" x 12.59" x 37.95")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; Up to 320MB Cache per CPU
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 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional)
System 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
Drive Bays Configuration	Default: Total 8 bays • 8 front hot-swap 3.5" NVMe/SAS/SATA drive bays Option A: Total 8 bays • 8 front hot-swap 2.5" NVMe/SAS/SATA drive bays M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	PCI-Express (PCIe) Configuration: Default • 7 PCIe 5.0 x16 FHFL slots M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key)
On-Board Devices	SATA: SATA (6Gbps) Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2
Input / Output	Video: 1 VGA port (Rear) Serial: 1 COM port (rear) Audio: Front Audio



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
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	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!
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
Dimensions and Weight	Weight: Gross Weight: 62 lbs (28.1 kg) Net Weight: 46 lbs (20.9 kg) Available Color: Black
Operating Environment	RoHS Compliant 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)
Motherboard	Super X13DEG-QT
Chassis	CSE-749TS-R2K05BP