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,
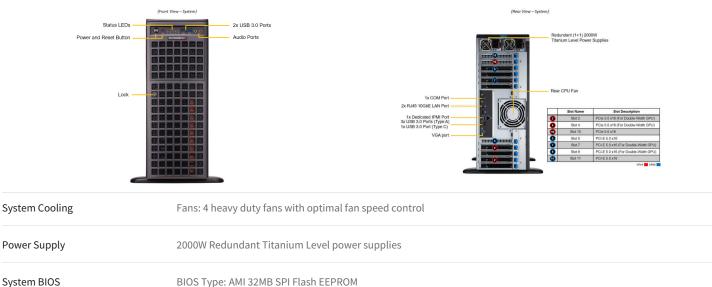
Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support;
- 16 DIMM slots Up to 4TB: 16x 256 GB DRAM Memory Type: 5600MTs 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 Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: 330.2 x 685.8 x 965.2mm (13" x 27" x 38")
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 or 4 single-width GPU(s) Supported GPU: AMD PCIe: Instinct MI210 NVIDIA PCIe: H100, L40, RTX A6000, RTX 6000 ADA, L40S, A100, RTX A5500, RTX A4000, L4, A30 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 bay(s) • 8 front hot-swap 3.5" NVMe/SAS/SATA drive bay(s) M.2: 2 M.2 NVMe slot(s) (M-key)
Expansion Slots	PCI-Express (PCIe) Configuration: Default • 7 PCIe 5.0 x16 FHFL slot(s) M.2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key)
On-Board Devices	SATA: SATA (6Gbps) Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	Video: 1 VGA port(s) (Rear) Serial: 1 COM port(s) (Rear) Audio: Front Audio TPM: 1 TPM Onboard/port 80

(Front View – System)

Status LEDs
2x USB 3.0 Ports
Power and Reset Button
Audio Ports
Lock

(Rear View – System)

Redundant (1+1) 2000W
Titanium Level Power Supplies

Rear CPU Fan

1x COM Port
2x RJ45 10GbE LAN Port
1x Dedicated IPMI Port
3x USB 3.0 Ports (Type A)
1x USB 3.0 Port (Type C)
VGA port

Slot Name	Slot Description
Slot 2	PCIe 5.0 x16 (For Double-Width GPU)
Slot 4	PCIe 5.0 x16 (For Double-Width GPU)
Slot 10	PCIe 5.0 x16
Slot 5	PCI-E 5.0 x16
Slot 7	PCI-E 5.0 x16 (For Double-Width GPU)
Slot 9	PCI-E 5.0 x16 (For Double-Width GPU)
Slot 11	PCI-E 5.0 x16

CPU1 CPU2

System Cooling	Fans: 4 heavy duty fans with optimal fan speed control
Power Supply	2000W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0

PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory
	    8+4 Phase-switching voltage regulator
	FAN: Fans with tachometer monitoring
	    Status monitor for speed control
	    Pulse Width Modulated (PWM) fan connectors
	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 Front & Silver Body
Operating Environment	RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)
Motherboard	**Super X13DEG-QT**
Chassis	**CSE-749TS-R2K05BP**