# GPU SuperServer SYS-741GE-TNRT

## 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

- 16 DIMM slots Up to 4TB: 16x 256 GB DRAM Memory Type: 4800MHz 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;
- 2x M.2 NVMe  for boot drive only; Up to 8x NVMe drives (8 NVMe drives supported by default); Total 8x 3.5" Hot-swap SATA/NVMe/SAS drive bays;
- 4 Removable heavy duty fans w/ Optimal Fan Speed Control;
- 2x 2000W (1+1) Redundant Power Supplies, Titanium Level;

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|---|---|
| Form Factor | Tower<br>Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29")<br>Package: 330.2 x 685.8 x 965.2mm (13" x 27" x 38") |
| Processor | 4th Gen Intel® Xeon® Scalable processors<br>Dual Socket LGA-4677 (Socket E) supported<br><br>(Supports up to 350W TDP CPUs (Aircooled)) |
| GPU | Supported GPU: GPU-NVH100-80,GPU-NVA100-80-NC,GPU-NVA30-NC,GPU-NVQRTX-A6000<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional) |
| System Memory | 16 DIMM slots<br>Up to 4TB ECC RDIMM, DDR5-4800MHz |
| Drive Bays | 8x 3.5" hot-swap NVMe/SATA/SAS drive bays (8x 2.5" NVMe hybrid) |
| Expansion Slots | 7 PCIe 5.0 x16 FHFL slot(s) |
| On-Board Devices | SATA: SATA3 (6Gbps); RAID 0/1/5/10 support<br>Chipset: Intel® C741<br>Network Connectivity: 2x 10GbE BaseT with Intel® X550-AT2<br>IPMI: Support for Intelligent Platform Management Interface v.2.0<br>        IPMI 2.0 with virtual media over LAN and KVM-over-LAN support |
| Input / Output | Video: 1 VGA port(s) |

*(Front View – System)*

Status LEDs
Power and Reset Button
2x USB 3.0 Ports
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 ▮

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|---|---|
| **System Cooling** | 4 heavy duty fan(s) |
| **Power Supply** | 1U 2000W Redundant Titanium AC Power supply, 73.5x40x265mm, CRPS<br>Dimension (W x H x L): 73.5 x 40 x 265 mm<br>Output Type: 25 Pairs Gold Finger Connector |
| **System BIOS** | BIOS Type: AMI 32MB SPI Flash EEPROM |
| **Management** | SuperDoctor® 5; Watch Dog; NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; IPMI 2.0; Redfish API; OOB Management Package (SFT-OOB-LIC ) |
| **PC Health Monitoring** | CPU: Monitors for CPU Cores, Chipset Voltages, Memory<br>        8+4 Phase-switching voltage regulator<br>FAN: Fans with tachometer monitoring<br>        Status monitor for speed control<br>        Pulse Width Modulated (PWM) fan connectors<br>Temperature: Monitoring for CPU and chassis environment<br>                Thermal Control for fan connectors |
| **Dimensions and Weight** | Height: 7" (178 mm)<br>Width: 17.2" (437 mm)<br>Depth: 29" (737 mm)<br>Gross Weight: 62 lbs (28.1 kg)<br>Net Weight: 46 lbs (20.9 kg)<br>Packaging: 27" (H) x 13" (W) x 38" (D)<br>Available Color: Black Front & Silver Body |
| **Operating Environment** | Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing) |
| **Motherboard** | Super X13DEG-QT |
| **Chassis** | CSE-749TS-R2K05BP |