

# GPU SuperServer SYS-740GP-TNRT

DP Intel, Tower Workstation with 4 GPUs



[More details here](#)

## Key Applications

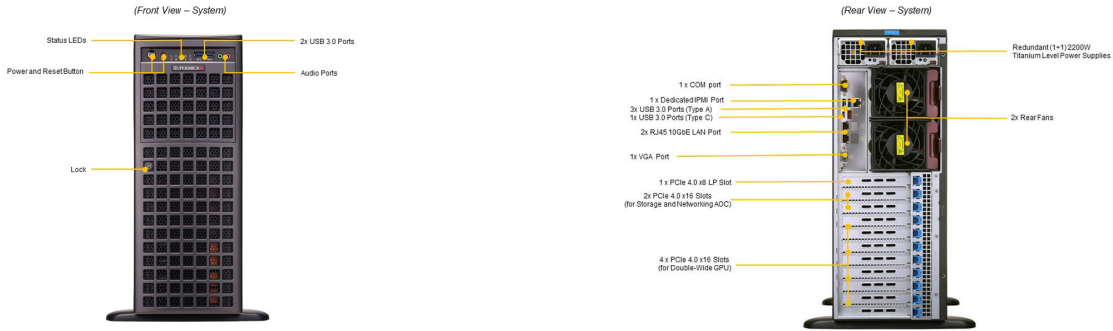
Scientific Virtualization, High Performance Computing, Rendering, AI/Deep Learning Training,

## Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 16 DIMM Slots; Up to 4TB DRAM; Up to 6TB Intel® Optane™ Persistent Memory ; 3200/2933/2666 ECC DDR4 LRDIMM; RDIMM; Intel® Optane™ Persistent Memory 200 series;
- 4 PCIe 4.0 x16 (double-width) slots, 2 PCIe 4.0 x16 (single-width) slots, 1 PCIe 4.0 x8 LP;
- Total 8x 3.5" Hot-swap drive bays  
Up to 8 NVMe drives (4 NVMe drives supported by default)  
2 M.2 NVMe or SATA for boot drive only;
- 4 Removable heavy duty fans w/ Optimal Fan Speed Control;
- 2x 2200W redundant Titanium level power supplies;



|                          |                                                                                                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | Full-Tower Rackmount<br>Enclosure: 177 x 465.4 x 678.5mm (6.96" x 18.32" x 26.71")<br>Package: 689 x 329 x 971mm (27.12" x 12.95" x 38.22")                                                                                                                  |
| Processor                | Dual Socket P+ (LGA-4189)<br>3rd Gen Intel® Xeon® Scalable processors<br>Up to 40C/80T; Up to 60MB Cache per CPU                                                                                                                                             |
| GPU                      | Max GPU Count: Up to 4 double-width or 6 single-width GPUs<br>Supported GPU: NVIDIA PCIe: A10, A100, A16, A30, A40, RTX A4000, RTX A4500, RTX A5000, RTX A6000<br>CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: PCIe   |
| System Memory            | Slot Count: 16 DIMM slots<br>Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM<br>Supports Intel® Optane™ persistent memory 200 series                                                                                                             |
| Drive Bays Configuration | Default: Total 8 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 3.5" SAS/SATA drive bays</li> <li>• 4 front hot-swap 3.5" NVMe/SAS/SATA drive bays</li> </ul> M.2: 2 M.2 NVMe/SATA slots (M-key)<br>Peripheral Bays: 3 5.25" peripheral bays |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 4 PCIe 4.0 x16 FHFL slots</li> <li>• 2 PCIe 4.0 x16 LP slots</li> <li>• 1 PCIe 4.0 x8 LP slot</li> </ul>                                                                                                    |
| On-Board Devices         | SATA: SATA (6Gbps) ; RAID 0/1/5/10 support<br>Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2                                                                                                                                                        |
| Input / Output           | 1 VGA port                                                                                                                                                                                                                                                   |



|                       |                                                                                                                                                                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 4 heavy duty fans with optimal fan speed control                                                                                                                                                                                                                                                               |
| Power Supply          | 1x 2200W Redundant Titanium Level (96%) power supply                                                                                                                                                                                                                                                                       |
| System BIOS           | BIOS Type: AMI 32MB SPI Flash EEPROM                                                                                                                                                                                                                                                                                       |
| Management            | SuperCloud Composer®; 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: 7 +1 Phase-switching voltage regulator<br>Monitors for CPU Cores, Chipset Voltages, Memory<br>FAN: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 57 lbs (25.85 kg)<br>Net Weight: 52.9 lbs (24 kg)<br>Available Color: black                                                                                                                                                                                                                          |
| Operating Environment | Operating Temperature: 10°C to 35°C (50°F to 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           | <a href="#">Super X12DPG-QT6</a>                                                                                                                                                                                                                                                                                           |
| Chassis               | CSE-747BTS-R2K20BP                                                                                                                                                                                                                                                                                                         |