

SuperWorkstation SYS-740A-T

DP 4U rackmount tower workstation for rendering, CAD and content creation



Key Applications

Rendering, CAD, Multimedia/Digital Content creation, Engineering/scientific research,

Key Features

- 3rd Gen Intel® Xeon® Scalable processor support;
- Intel® C621A Chipset;
- 5 PCIe 4.0 x16, 1 PCIe 4.0 x8, 2 NVMe M.2 slots;
- 3x 5.25" peripheral drive bays
up to 4x NVMe SSD support with optional cables
8x 3.5/2.5" hot-swap SATA (default) drive bays (SAS support requires optional add-on card);
- Dual 1200W Titanium level power supplies for high powered configurations;
- Supports up to two double width active GPUs
1 VGA, 6 USB 3.2 Gen1 (4 Rear, 2 Front), 1 USB 3.2 Gen2 (Rear), 7.1 HD Audio;



Form Factor	4U Tower Rackmount Enclosure: 178 x 452 x 647mm (7" x 17.8" x 25.5") Package: 356 x 625 x 795mm (14" x 24.6" x 31.3")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU
GPU	Max GPU Count: Up to 2 double-width or 2 single-width GPUs Supported GPU: NVIDIA PCIe: RTX 5000, RTX A4000, RTX A5000, RTX A6000 CPU-GPU Interconnect: PCIe 4.0 x16 Switch Single-Root
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 2TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 8 bays • 4 front hot-swap 3.5" SAS*/SATA drive bays • 4 front hot-swap 3.5" NVMe*/SATA drive bays (*NVMe/SAS support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 NVMe slots (M-key) Peripheral Bays: 3 5.25" peripheral bays (optional)
Expansion Slots	Default • 5 PCIe 4.0 x16 FHFL slots • 1 PCIe 4.0 x8 FHHL slot
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Network Connectivity: 2 RJ45 1GbE
Input / Output	LAN: 2 RJ45 1 GbE LAN ports (IPMI shared on LAN port 1) USB: 4 USB 3.2 Gen1 ports (rear) 2 USB 3.2 Gen1 ports (front) Video: 1 VGA port DOM: 2 SATA DOM (Disk on Module) ports Audio: 7.1 HD Audio



System Cooling	Fans: Up to 5x 8cm heavy duty fans with optimal fan speed control
Power Supply	1x 1200W Redundant Titanium Level (96%) power supply
System BIOS	BIOS Type: AMI 32MB SPI FLASH ROM
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: 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 (28.12 kg) Net Weight: 59 lbs (26.76 kg) Available Color: black
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 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 X12DAI-N6
Chassis	CSE-745BTS-R1K23BP3