# SuperWorkstation SYS-751A-I

DP full rackmount tower workstation for 3D design and content creation

## Key Applications

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

## Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support;
- Intel® C741 Chipset
  TPM 2.0 built-in already;
- 5 PCIe 5.0 x16, 1 PCIe 5.0 x8, 2 NVMe M.2 slots;
- 4x internal 3.5" SATA rotating drive bays for easy access
  2x 5.25" peripheral drive bays
  up to 4x NVMe SSD support with opitonal cables and converter trays
  2x 2.5" Front access SATA drive bays;
- New front bezel with keylock for added security;
- Supports up to two double width active GPUs
  1 VGA, 6 USB 3.2 Gen1 (4 Rear, 2 Front),  2 USB 3.2 Gen2 (1 ineternal, 1 Front type C), 2 USB 2.0, 7.1 HD Audio;

| | |
|---|---|
| **Form Factor** | Tower or 5U Rackmount<br>Enclosure: 221 x 536 x 574mm (8.7" x 21.1" x 22.6")<br>Package: 371 x 701 x 711mm (14.6" x 27.6" x 28") |
| **Processor** | Dual Socket E (LGA-4677)<br>5th Gen Intel® Xeon®4th Gen Intel® Xeon® Scalable processors<br>Up to 64C/128T; Up to 320MB Cache per CPU |
| **GPU** | Max GPU Count: Up to 2 double-width GPUs<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: PCIe |
| **System Memory** | Slot Count: 16 DIMM slots<br>Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM |
| **Drive Bays Configuration** | Default: Total 4 bays<br>  • 4 front fixed 3.5" NVMe/SAS*/SATA drive bays<br>Option A: Total 6 bays<br>  • 4 internal fixed 3.5" NVMe/SATA drive bays<br>  • 2 front fixed 2.5" SATA drive bays<br>(*SAS support may require additional storage controller and/or cables, please see the optional parts list for details)<br>M.2: 2 M.2 NVMe slots (M-key 2280/22110)<br>Peripheral Bays: 2 5.25" bays (optional) |
| **Expansion Slots** | Default<br>  • 5 PCIe 5.0 x16 FHFL slots<br>  • 1 PCIe 5.0 x8 FHHL slot |
| **On-Board Devices** | SATA: SATA (6Gbps) ; RAID 0/1/5/10 support<br>Chipset: Intel® C741<br>Network Connectivity: 2 RJ45 10GbE |
| **Input / Output** | LAN: 2 RJ45 10 GbE LAN ports (IPMI shared on LAN port 1)<br>USB: 2 USB 2.0 Type-A ports(front)<br>       2 USB 3.2 Gen1 Type-A ports(front)<br>       1 USB 3.2 Gen2 Type-C port(Front)<br>       1 USB 3.2 Gen2 Type-A port(Header)<br>       4 USB 3.2 Gen1 Type-A ports(Rear)<br>Video: 1 VGA port<br>DOM: 2 SATA DOM (Disk on Module) ports |

Audio: 7.1 HD Audio
    Line Out
    Mic in

*(Front View – System)*

*(Rear View – System)*

2x 5.25" Drive Bays

Power Button & Status LEDs
7.1 channel HD Audio
1 USB 3.2 Gen 2 Type C Port
2 USB 3.2 Gen1 Ports
2 USB 2.0 Ports

7.1 Channel HD Audio
4x USB 3.2 Gen1 Ports
VGA Port

12cm Heavy-Duty Fan
2x 10GbE LAN Ports
(Broadcom 57416)

2000W Platinum Level
Power Supply

| Drive Bay | Description |
|---|---|
| ⓪ — ③ | Default – 4 Hot-swap 3.5" SATA3 HDD/SSD drive bays (SAS3 supported with optional add on card and cables) |
| ② — ④ | 2 Hot-swap 2.5" SSD (optional) |

| Slot Description | | |
|---|---|---|
| ❶❷❸❹❺ | PCIe 5.0 x16 |
| ❻ | PCIe 5.0 x8 |

CPU1 ■ CPU2 ■

| | |
|---|---|
| **System Cooling** | Fans: Up to 3x 12cm Fan(s) |
| **Power Supply** | 1x 2000W Platinum Level (92%) power supply |
| **System BIOS** | BIOS Type: AMI 32MB SPI FLASH ROM |
| **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: Monitors for CPU Cores, Chipset Voltages, Memory.<br>FAN: 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: 59.5 lbs (27 kg)<br>      Net Weight: 56.2 lbs (25.5 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** | **Super X13DAI-T** |
| **Chassis** | **CSE-GS7A-000NBP3** |