Mainstream SuperServer SYS-741P-TR

DP 4U rackmount tower workstation with 1GbE for virtualization and enterprise server applications
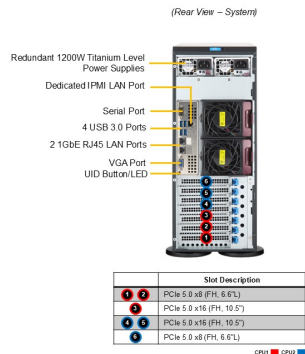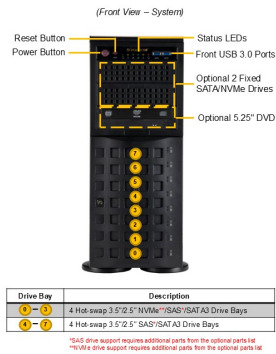
Key Applications

Virtualization, Enterprise Server, Application and data serving, Compute Intensive Applications,

Key Features

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors,supports up to 300W TDP;
- 16 DIMM slots, Up to 4TB DDR5-5600MHZ/4800MHz ECC Registered RDIMM;
- 4 PCIe 5.0 x16 full height slot(s), 2 PCIe 5.0 x8 full height slot(s);
- 1200W Redundant Titanium level Power Supplies;

Form Factor	Tower/4U 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 E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
GPU	Max GPU Count: Up to 2 double-width or 2 single-width GPUs Supported GPU: NVIDIA PCIe: H100 NVL, A16, L4, L40S, RTX 2000 Ada, RTX 4000 SFF Ada Generation, RTX 4500 Ada, RTX 5000 Ada, RTX 6000 Ada Generation, RTX A4000, T1000
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM

Drive Bays Configuration	Default: Total 8 bays
	  • 4 front hot-swap 3.5" NVMe*/SAS*/SATA drive bays
	  • 4 front hot-swap 3.5" SAS*/SATA drive bays
	Option A: Total 8 bays
	  • 4 front hot-swap 2.5" NVMe*/SAS*/SATA drive bays
	  • 4 front hot-swap 2.5" SAS*/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" DVD bays (optional)

Expansion Slots	PCI-Express (PCIe) Configuration: Default
	  • 2 PCIe 5.0 x8 FHFL slots
	  • 4 PCIe 5.0 x16 FHFL slots
	M.2: 2 M.2 PCIe 4.0 x2 NVMe slots (M-key)

On-Board Devices	SATA: SATA (6Gbps) Chipset: Intel® C741 Network Connectivity: 2 RJ45 1GbE
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(front) 4 USB 3.0 ports(rear) Video: 1 VGA port Serial: 1 COM port(rear) DOM: 2 SuperDOM (Disk on Module) ports TPM: 1 TPM Onboard/port 80

(Front View – System)

Reset Button
Power Button
Status LEDs
Front USB 3.0 Ports
Optional 2 Fixed SATA/NVMe Drives
Optional 5.25" DVD

Drive Bay	Description
0 – 3	4 Hot-swap 3.5"/2.5" NVMe**/SAS*/SATA3 Drive Bays
4 – 7	4 Hot-swap 3.5"/2.5" SAS*/SATA3 Drive Bays

*SAS drive support requires additional parts from the optional parts list
**NVMe drive support requires additional parts from the optional parts list

(Rear View – System)

Redundant 1200W Titanium Level Power Supplies
Dedicated IPMI LAN Port
Serial Port
4 USB 3.0 Ports
2 1GbE RJ45 LAN Ports
VGA Port
UID Button/LED

Slot Description
1 2	PCIe 5.0 x8 (FH, 6.6"L)
3	PCIe 5.0 x16 (FH, 10.5")
4 5	PCIe 5.0 x16 (FH, 10.5")
6	PCIe 5.0 x8 (FH, 6.6"L)

CPU1 CPU2

System Cooling	Fans: Up to 3 middle Fan(s) Up to 2 rear Fan(s)
Power Supply	2x 1200W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies
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: 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: 73.5 lbs (33.9 kg) Net Weight: 56 lbs (25.9 kg) Available Color: Black
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	**Super X13DEI**
Chassis	**CSE-745BTS-R1K23BP**