Mainstream SuperServer SYS-741P-TR
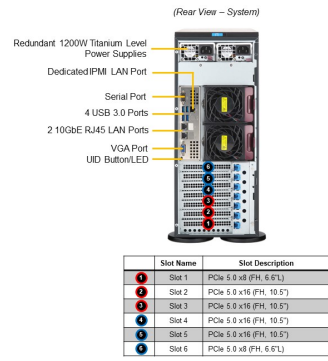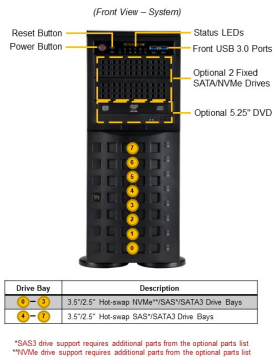
Key Applications

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
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	8x 3.5" hot-swap SATA3 drive bays (Configurable option for 8 hot-swap SAS or 4x hot-swap NVMe drive bays. NVMe or SAS support requires additional parts. Please see the Optional Parts list) 2 M.2 NVMe
Expansion Slots	2 PCIe 5.0 x8 Full-height slot(s) 4 PCIe 5.0 x16 Full-height slot(s)
On-Board Devices	SATA: SATA3 (6Gbps) Chipset: Intel® C741 Network Connectivity: 2x 1GbE port(s) IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 Dedicated BMC LAN port USB: 6 USB 3.0 port(s) (2 front; 4 rear) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear) DOM: 2 SuperDOM (Disk on Module) port

(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	3.5"/2.5" Hot-swap NVMe**/SAS*/SATA3 Drive Bays
4 – 7	3.5"/2.5" Hot-swap SAS*/SATA3 Drive Bays

*SAS3 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 10GbE RJ45 LAN Ports
VGA Port
UID Button/LED

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

CPU1 ■ CPU2 ■

System Cooling

Fans: 2 rear Fan(s)
3 middle Fan(s)

Power Supply

1200W Redundant Titanium Level power supplies

System BIOS

BIOS Type: AMI 32MB SPI Flash EEPROM

Management

Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0

PC Health Monitoring

CPU: Monitors for CPU Cores, Chipset Voltages, Memory
FAN: Fans with tachometer monitoring
Status monitor for speed control
Pulse Width Modulated (PWM) fan connectors
Temperature: Monitoring for CPU and chassis environment
Thermal Control for fan connectors

Dimensions and Weight

Height: 17.8" (452 mm)
Width: 7" (178 mm)
Depth: 25.5" (647 mm)
Gross Weight: 73.5 lbs (33.9 kg)
Net Weight: 56 lbs (25.9 kg)
Packaging: 24.6" (H) x 14" (W) x 31.3" (D)
Available Color: Black

Operating Environment

ROHS: RoHS Compliant
Operating Temperature: 10°C ~ 35°C (50°F ~ 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

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis

Part Number	MBD-X13DEI	CSE-745BTS-R1K23BP
Qty	1	1
Description	Super X13DEI Motherboard	Tower/4U Chassis

Backplane

Part Number	BPN-NVME5-745N-S8
Qty	1
Description	8-port LFF SAS4/SAS3/SATA3 HDD / NVMe U.2 Gen5 BPN for CSET745/743 Tower,RoHS

Cable

Part Number	CBL-CDAT-0845-48 CBL-0471L	CBL-SAST-1261-100	CBL-0087	CBL-0160L	CBL-0216L
Qty	1 1	1	1	2	3
Description	I2C,1x4F,PH2.5 to PH1.25,48cm,26AWG,RoHS USB3.0 Internal Cable-80cm (19pin Female to 19pin Female)	Slimline x8 (STR) to 2x Slimline x4 (STR),60/60CM,100 O	CBL,FRONT CNTL,16 TO 16 PIN,Ribbon,50CM	US POWER CORD 16AWG, PB FREE	4 TO 4 PIN FAN POWER CABLE, 210MM

Parts

Part Number	MCP-260-00042-3N	MCP-290-74502-0B
Qty	1	1
Description	STD I/O shield for X13 server MB with venting holes	Plastic feet (4 pcs set) for 4U tower chassis, black color

Manual

Part Number	MNL-2568-QRG
Qty	1
Description	741P-TR(T) Quick Reference Guide

Software

Part Number	SFT-OOB-LIC
Qty	1
Description	License key for enabling OOB BIOS management

Heatsink / Retention

Part Number	SNK-P0088P
Qty	2
Description	2U Passive CPU HS for X13 Intel Eagle Stream Platform

* Power Supply

Part Number	PWS-1K23A-SQ
Qty	2
Description	1U, Redundancy, Titanium, Input: 100-127Vac, 200-240Vac

* Power Distributor

Part Number	PDB-PT747-4648
Qty	1
Description	POWER DISTRIBUTOR FOR SC747 W/ GRAPHIC OUTPUT FEATURE

* Fan

Part Number	FAN-0180L4	FAN-0182L4
Qty	1	3
Description	80x80x38 mm, 9.4K RPM, Hot-swappable Rear Exhaust Fan for X11 Purley Platform Newly Enabled 4U Chassis	80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 4U Chassis

* Drive Tray(s)

Part Number	MCP-220-00193-0N
Qty	8
Description	SC743/SC745/SC822/SC823 Gen2 2.5"/3.5" 2-in-1 HDD tray

* Air Shroud

Part Number	MCP-310-49001-0N
Qty	1
Description	SC745 Intel DP X9, X8 PC air shroud 1368x13/12x13MB

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

4U Chassis Rail Kits

Part Number	CSE-PT26L-B *e*Store (https://store.supermicro.com/1u-rail-kit-cse-pt26l-b.html)
Qty	1
Description	4U Chassis Rail Kits SC743,745, w/ 2pcs Black Chassis Ears

Management Software

Part Number	SFT-DCMS-Single
Qty	1
Description	DataCenter Management Package (per node license)

Optional 2x fixed SATA drive Kit

Part Number	1x MCP-220-00044-0N, 2xCBL-SAST-0624+1*CBL-0082L
Qty	1
Description	1x MCP-220-00044-0N can support 2x 2.5 inch fixed drives in 1x 5.25 inch drive bay

Optional 8-ports SAS Raid controller kit

Part Number	1x AOC-S3908L-H8IR-16DD-O
Qty	1
Description	Standard LP, 8 internal ports (12Gb/s) Gen-4; RAID 0, 1, 5, 6, 10, 50, 60

Optional CacheVaults Kit

Part Number	1xBTR-CVPM05+1x MCP-240-00203-0N
Qty	1
Description	CacheVault for Broadcom 3908/3916 with Supercap and PCI bracekt

Optional Front Hot-Swap NVMe Kit

Part Number	1xCBL-MCIO-1260M5 for 2 U.2 NVMe Drives
Qty	1
Description	NVMe Kit for front hot-swap NVMe . Max. 4 NVMe support

Optional MCC CPU Carrier

Part Number	1x SKT-1424L-001B-FXC
Qty	1
Description	CPU Carrier for Intel Socket-E (LGA4677) E1B MCC CPU

Optional ODD Kit

Part Number	1*DVM-TEAC-DVDRW24-HBT+1*CBL-SAST-0624+1*CBL-0082L
Qty	1
Description	BLACK DVD SATA DRIVE

Optional Trusted Platform Module

Part Number	1 x AOM-TPM-9670V-S-O
Qty	1
Description	SPI Vertical TPM 2.0 0 using SLB9670

Optional XCC CPU Carrier

Part Number	1x SKT-1333L-0000-FXC
Qty	1
Description	CPU Carrier for Intel Socket-E (LGA4677) E1A XCC CPU