

Mainstream SuperServer SYS-740P-TR



Key Applications

Enterprise Server
 Application and data serving
 Model analysis
 Compute Intensive Applications
 Office environment

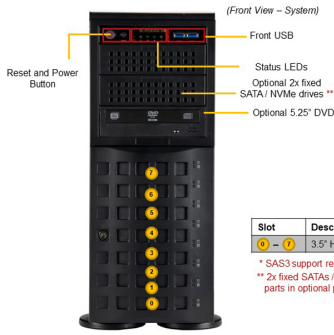
Key Features

- Dual sockets P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors; CPU TDP supports Up to 270W TDP; 3 UPI up to 11.2 GT/s;
- Intel® C621A Chipset;
- Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz, Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz ; - Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 18 DIMM slots (P1-DIMMB2 and P2-DIMMB2 are reserved for Intel® Optane Persistent Memory 200 Series only);
- 4 PCI-E 4.0 x16 Full Height (FH); 2 PCI-E 4.0 x8 Full Height (FH);

[More details here](#)

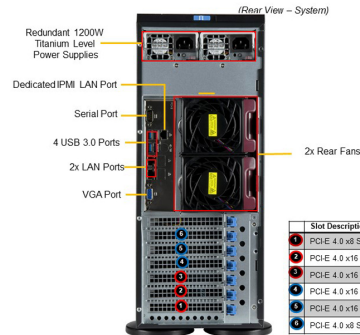


Form Factor	Tower/4U Rackmount Enclosure: 178 x 452 x 647mm (7" x 17.8" x 25.5") Package: 356 x 625 x 795mm (14" x 24.6" x 31.3")
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported TDP up to 270W;
Drive Bays	8x 3.5" hot-swap drive bays;
Expansion Slots	Slot 1: PCI-E 4.0 x8 Full-height Slot 2: PCI-E 4.0 x16 Full-height Slot 3: PCI-E 4.0 x16 Full-height Slot 4: PCI-E 4.0 x16 Full-height Slot 5: PCI-E 4.0 x16 Full-height Slot 6: PCI-E 4.0 x8 Full-height
On-Board Devices	Chipset: Intel® C621A 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 dedicated IPMI LAN port USB: 2 USB 2.0 port(s) (2 front) 4 USB 3.0 port(s) (4 rear) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear) DOM: 2 SuperDOM (Disk on Module) port



Slot	Description
0 - 3	3.5" Hotswap SAS3/SATA3 Drive Bays*

* SAS3 support requires additional parts in optional parts list
 ** 2x fixed SATAs / NVMe support requires additional parts in optional parts list



Slot Description
1 PCIe 4.0 x8 Slot, Low Profile
2 PCIe 4.0 x16 Slot, Low Profile
3 PCIe 4.0 x16 Slot, Low Profile
4 PCIe 4.0 x16 Slot, Low Profile
5 PCIe 4.0 x16 Slot, Low Profile
6 PCIe 4.0 x8 Slot, Low Profile
7 PCIe 4.0 x8 Slot, Low Profile

CRU1 CRU2 CRU3

Cooling System	3 (middle) and 2 (rear) heavy duty fans
Power Supply	1U, Redundancy, Titanium, Input: 100-127Vac, 200-240Vac Dimension (W x H x L): 76 x 40 x 336 mm Output Type: Gold Finger (19 pair connector)
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; Redfish API; IPMI2.0; Supermicro Out of Band (OOB) License (included in the unit)
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 4+1 Phase-switching voltage regulator 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 (33.6 kg) Net Weight: 56 lbs (25.6 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: -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 X12DPI-N6
Chassis	CSE-745BTS-R1K23BP

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12DPI-N6	1	Super X12DPI-N6 Motherboard
	CSE-745BTS-R1K23BP	1	Tower/4U Chassis
Backplane	BPN-SAS3-743A	1	8-port 4U/Tower 3.5-inch SAS3/SAS2/SATA3 12Gbps backplane for SC743/SC745 chassis
Cable 1	CBL-SAST-0508-01	2	Internal Mini-SAS to Mini-SAS HD 50cm w/ SB, 30AWG
Cable 2	CBL-SAST-0508-02	2	Internal Mini-SAS to Mini-SAS HD 50cm w/ SB, 30AWG
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Manual	MNL-2242-QRG	1	SYS-740P-TR(T) Quick Reference Guide
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0078P	2	2U Passive CPU Heat Sink for X12 Generation Intel Whitley and Cedar Island Platforms
*Power Supply	PWS-1K23A-SQ	2	1U, Redundancy, Titanium, Input: 100-127Vac, 200-240Vac
*Power Distributor	PDB-PT747-4648	1	POWER DISTRIBUTOR FOR SC747 W/ GRAPHIC OUTPUT FEATURE
*Cable 3	CBL-0087	1	CBL,FRONT CNTL,16 TO 16 PIN,Ribbon,50CM
*Cable 4	CBL-0160L	2	US POWER CORD 16AWG, PB FREE
*Cable 5	CBL-0216L	3	4 TO 4 PIN FAN POWER CABLE, 210MM
*Cable 6	CBL-0471L	1	USB3.0 Internal Cable-80cm (19pin Female to 19pin Female)
*FAN 1	FAN-0180L4	2	80x80x38 mm, 9.4K RPM, Hot-swappable Rear Exhaust Fan for X11 Purley Platform Newly Enabled 4U Chassis
*FAN 2	FAN-0182L4	3	80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 4U Chassis
*Drive Tray(s)	MCP-220-00193-0N	8	SC743/SC745/SC822/SC823 Gen2 2.5"/3.5" 2-in-1 HDD tray
*Parts	MCP-290-74502-0B	1	Plastic feet (4 pcs set) for 4U tower chassis, black color
*Air Shroud	MCP-310-49001-0N	1	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

	Part Number	Qty	Description
BTR kit for AOC-S3108L-H8IR-16DD or AOC-S3108L-H8IR with SYS-740P-TR	use 1x BTR-TFM8G-LSICVM02 and 1x BKT-BBU-BRACKET-05 with AOC-S3108L-H8IR-16DD or AOC-S3108L-H8IR	1	SuperCap and mounting bracket used for SAS raid controllers AOC-S3108L-H8IR-16DD or AOC-S3108L-H8IR
BTR kit for AOC-S3908L-H8IR-16DD-P or AOC-S3916L-H16R-32DD with SYS-740P-TR	use BTR-CVPM05 and 1x BKT-BBU-BRACKET-05 with AOC-S3908L-H8IR-16DD-P and AOC-S3916L-H16R-32DD	1	SuperCap and mounting bracket used for SAS raid controllers AOC-S3908L-H8IR-16DD-P and AOC-S3916L-H16R-32DD
Optional Gen3 8-ports SAS Raid controller kit for SYS-740P-TR	add 1x AOC-S3108L-H8IR or AOC-S3108L-H8IR-16DD + 2x CBL-SAST-0531-01	1	Convert 8x hotswap SATA drives to SAS drives
Optional Gen4 8-ports SAS Raid AOC kit for SYS-740P-TR (backplane is Gen3)	add 1x AOC-S3908L-H8IR-16DD-P and 1x CBL-SAST-1264-100	1	Convert 8x hotswap SATA drives to SAS drives
Optional Mounting Rails	CSE-PT26L-B	1	4U Chassis Rail Kits SC743,745, w/ 2pcs Black Chassis Ears
Optional parts needed to support 2x fixed NVMe drives	1x MCP-220-00160-0N (Dual 2.5" Drive BKT) and 1x CBL-SAST-0953 (Slimline x8 to PCIe 2x SFF-8639 Power)	1	1x MCP-220-00160-0N can support 2x NVMe fixed drives in 1x 5.25 inch drive bay and 1x CBL-SAST-0953 can support 2x 2.5 inch NVMe drives
Optional parts needed to support 2x fixed SATA drives	1x MCP-220-00160-0N (Dual 2.5" Drive BKT), 2x CBL-0044L (SATA CABLE 61CM FLAT S-S PBF.26AWG flat) and 1x CBL-0082L (Y split, big 4 pin to two RA SATA power extension 15cm, 18AWG)	1	1x MCP-220-00160-0N can support 2x 2.5 inch fixed drives in 1x 5.25 inch drive bay, 1x CBL-0044L can support 1x 2.5 inch SATA drives and 1x CBL-0082L can support 2x 2.5 inch SATA drives