

SuperServer 7049P-TRT



Key Features

- **Cost Effective**

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 2TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 16 DIMM slots
3. 4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 slots
4. 8 Hot-swap 3.5" SATA3 drive bays; RAID 0, 1, 5, 10
5. Optional DVD-ROM drive, optional support: 2 fixed 2.5" NVMe/SSD/HDD, 1 M.2 support
6. 3 Peripheral 5.25" bays
7. 2x 10GBase-T LAN ports with Intel X722
8. 1280W Redundant Power Supplies Platinum Level (94%)

[▶ Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#)
[▶ Tested M.2 List](#) ▶ [Manuals](#) ▶ [QS Certification Matrix](#) ▶ [Quick-References Guide](#) ▶ [Drive Options](#)

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-7049P-TRT ■ SuperServer 7049P-TRT (Black)

Motherboard

Super X11DPi-NT

Processor/Cache

CPU ■ Dual Socket P (LGA 3647)
 ■ Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
 ■ Support CPU TDP 70-205W

Cores ■ Up to 28 Cores with Intel® HT Technology

System Memory

Memory Capacity ■ 16 DIMM slots
 ■ Up to 2TB ECC 3DS LRDIMM, 512GB ECC RDIMM, DDR4 up to 2666MHz

Memory Type ■ 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices

Chipset ■ Intel® C622 chipset

SATA ■ SATA3 (6Gbps); RAID 0, 1, 5, 10
 ■ Intel® X722 10GBase-T Ethernet

Chassis

Form Factor ■ 4U Rackmountable / Tower
 ■ Optional Rackmount Kit

Model ■ CSE-745BAC-R1K28B2

Dimensions and Weight

Height ■ 17.8" (452mm)

Width ■ 7.0" (178mm)

Depth ■ 25.5" (648mm)

Package ■ 24" (H) x 14" (W) x 26.5" (D)

Weight ■ Net Weight: 56 lbs (25.6 kg)
 ■ Gross Weight: 73.5 lbs (33.6 kg)

Available Colors ■ Black



Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button

LEDs ■ Power LED
 ■ Hard drive activity LED
 ■ Network activity LEDs
 ■ System Overheat LED
 ■ Power Fail LED

Ports ■ 2 USB Ports

Network Controllers	<ul style="list-style-type: none"> Controller Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	<ul style="list-style-type: none"> ASPEED AST2500 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> 8 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> Rear USB: 2 USB 3.0 + 2 USB 2.0 Front USB: 2 USB 2.0 USB Header: 1 Type A
Video	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2 Fast UART 16550 serial 2 COM Ports (1 rear, 1 header)
DOM	<ul style="list-style-type: none"> 2 SuperDOM (Disk on Module) ports
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI UEFI
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI SSM, SPM, SUM SuperDoctor® 5
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 4 PCI-E 3.0 x16 slots 2 PCI-E 3.0 x8 slots Support total of 6 Full-height AOC
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 8 Hot-swap 3.5" SATA3 drive bays
Peripheral Bays	<ul style="list-style-type: none"> 3 Peripheral 5.25" drive bays
SAS / SATA Backplane	
SAS / SATA Hard Drive Backplane w/AMI MG9072	
System Cooling	
Fans	<ul style="list-style-type: none"> 3x 80mm high-performance fans 2x 80mm PWM Rear Chassis fans
Power Supply	
1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2	
AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-140V, 8-12A, 50-60Hz 1280W Output @ 180-240V, 6-8A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
Certification	  Platinum Certified [Test Report]
Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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)

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPi-NT	1	Super X11DPi-NT Motherboard
	CSE-745BAC-R1K28B2	1	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	MINI SAS HD-MINI SAS,6G,INT,50CM,SB,30AWG
Cable 2	CBL-SAST-0508-02	2	MINI SAS HD-MINI SAS,6G,INT,50CM,SB,30AWG
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Manual	MNL-1940-QRG	1	SYS-7049P-TR/SYS-7049P-TRT, QRG
Heatsink / Retention	SNK-P0068PS	2	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism

Power Supply	PWS-1K28P-SQ	2	1U 1280W, redundant single output power supply
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

Optional Parts List

	Part Number	Qty	Description
5.25" SATA DVD drive	5.25" DVD reader or writer	1	Any third party 5.25 inch SATA DVD reader or writer
SATA cable for DVD drive	CBL-0178L	1	SATA CABLE 48CM FLAT S-S PBF. 26AWG
SATA Power cable for DVD drive	CBL-0080L	1	Big 4 pin to SATA POWER ADAPTER CABLE 6", 18AWG
2.5" NVMe fixed drive support	CBL-SAST-0956	1	Oculink to 1 NVMe drive w/ power, each NVMe drive needs 1 cable, system can support total 2 NVMe fixed drives
3.5" to 2.5" HDD tray Converter	MCP-220-00080-0B	1	Black hot-swap gen2 3.5" to 2.5" HDD tray converter. Each 2.5" drive needs one converter, total 8x 2.5" Hot-swap drives can be supported
HDD Bracket	MCP-220-00044-0N	1	Dual 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)