SuperServer 7089P-TR4T (Complete System Only)



Integrated Board



Views: | <u>Angled View</u> | | <u>Front View</u> | <u>Rear View</u> |

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (8 CPU with 96/48 DIMMs are the recommended configurations for the best performance.) Please contact your Supermicro sales rep for special 4 CPU with 48/24 DIMMs requirements with fees.

96/48 DIMMs are the recommended memory population configurations for the best performance.

<u>Drivers & Utilities</u> ► <u>BIOS</u> ► <u>IPMI</u> ► <u>Tested Memory</u> ► <u>Manuals</u>
 <u>OS Certification Matrix</u> ► <u>Drive Options</u>

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

Key Features

- 8-Way MP, 224 Cores
- Virtualization, ERP, CRM
- In-Memory Database Application
- Research lab/National Lab
- Scale-up HPC
- 1. Octa Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[‡]
- 96 DIMMs; up to 24TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
- 23 or 39 (OEM) PCI-E 3.0 slots include: 8 FH x16 PCI-E cards or 8 GPUs or 16 U.2 NVMe + 8 FHFL x16 PCI-E cards or 16 U.2 NVMe + 8 FHFL x16 PCI-E cards or 16 U.2 NVMe + 2 LP x8 (in x16) PCI-E internal cards (storage module) + 5 FHHL x16 PCI-E cards (rear)(Up to 39 PCI-E 3.0 slots for OEM)
- 4. 4 10Gb LAN (SIOM), 1 dedicated LAN for IPMI Remote Management, 1 VGA, 2 USB 2.0, 1 COM via KVM
- 5. 16 Hot-swap 2.5" SAS3 drive bays (w/ RAID cards); 8x 2.5" or 6x 3.5" internal drive bays (w/ RAID cards)
- 6. 8x 9cm Hot-swap counter-rotating rear fans
- 7. 5x 1600W (N+2) Redundant Power Supplies, **Titanium Level (96%)**



Product SKUs

SYS-7089P-TR4T

Chassis

Specifications

Super X110Pi-CPL	J			
<u> </u>	-			
Processor/Cache				
CPU	 Octa Socket P (LGA 3647) 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors[‡], 8S-3 UPI up to 10.4GT/s Support CPU TDP 70-205W 			
Cores	■ Up to 28 Cores			
Note	[‡] BIOS version 3.0 or above is required to support 2nd Gen Intel® Xeon® Scalable processors			
System Memory				
Memory Capacity	 96 DIMM slots Up to 24TB 3DS ECC DDR4- 2933MHz[†] RDIMM/LRDIMM Supports Intel® Optane[™] DCPMM^{††} 			
Memory Type	 2933[†]/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM 			
Note	 [†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro ^{††} Cascade Lake only. Contact your Supermicro sales rep for more info. 			
On-Board Devices				
Chipset	∎ Intel® C621 chipset			
Storage	 Intel C621 including 2 SATA3 (SATA DOM), 2 M.2 (SATA3/PCIe), 8 HDD (SATA3), 1 TPM header 			
	4-port 10GBase-T Ethernet SIOM			
Network Controllers (via AOM)	(Intel® X550 controller)			
Controllers				
Controllers (via AOM) IPMI	 (Intel® X550 controller) Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN 			
Controllers (via AOM) IPMI (via AOM)	 (Intel® X550 controller) Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support 			
Controllers (via AOM) IPMI (via AOM) Graphics	 (Intel® X550 controller) Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support 			
Controllers (via AOM) IPMI (via AOM) Graphics	 (Intel® X550 controller) Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2500 BMC 2 SATA DOM (SATA3) ports 2 M.2 (SATA3/PCI3) ports 			
Controllers (via AOM) IPMI (via AOM) Graphics Input / Output Storage	 (Intel® X550 controller) Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2500 BMC 2 SATA DOM (SATA3) ports 2 M.2 (SATA3/PCI3) ports 8 HDD (SATA3) ports 4 10GBase-T ports via SIOM 			

■ SuperServer 7089P-TR4T (Black)

Form Factor	7U RackmountableRackmount Kit: Comes with the system
Model	CSE-718SAC-R4800

Dimensions and Weight

Height	∎ 12.2" (310mm)		
Width	17.63" (448mm)		
Depth	28.87" (733mm)		
Package	■ 38.5" (H) x 29.9" (W) x 47.2" (D)		
Weight	 Gross Weight: 208 lbs (94.35 kg) Net Weight: 180 lbs (81.65 kg) 		
Available Colors	∎ Black		
Drive Bays			
Hot-swap	 16 Hot-swap 2.5" SAS3 drive bays (w/ RAID cards) 8x 2.5" or 6x 3.5" internal drive bays (w/ RAID cards) 		
Expansion Slots			
PCI-Express	 23 PCI-E 3.0 slots total including: 8 FH x16 PCI-E cards or 8 GPUs or 16 U.2 NVMe + 8 FHFL x16 PCI-E cards or 16 U.2 NVMe + 2 LP x8 (in x16 slot) PCI-E internal cards (storage module) + 5 FHHL x16 PCI- E cards (rear) Up to 39 PCI-E 3.0 slots for OEM 		
Backplane 2x 6-port 12G backp HDD/SSD	lane supports 6x 2.5" SAS3/SATA3		
System Cooling			
Fans	 8x 9cm 10.5K-10.8K RPM Hot-Swap Counter-rotating Rear Fans 		
Power Supply 1600W Redundant F	ower Supplies with PMBus		
Total Output Power	∎ 1600W/1000W		
Dimension (W x H x L)	∎ 73.5 x 40 x 203 mm		
Input	 100-127Vac / 13 - 9A / 50-60Hz 200-240Vac / 10 - 8A / 50-60Hz 		
+12V	 Max: 83.3A / Min: 0A (100-127Vac) Max: 133A / Min: 0A (200-240Vac) 		
12Vsb	Max: 2.1A / Min: 0A		
Output Type	25 Pairs Gold Finger Connector		
Certification	Titanium Level [<u>Test Report</u>]		

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7089P-TR4T | 7U | SuperServer | Products | Super Micro Computer, Inc.

BIOS Type	■ 16MB SPI Flash EEPROM with	Operating Enviro
	AMI® BIOS	- RoHS
BIOS Features	Plug and Play (PnP)	Rene
	 PCI 2.2 ACPI up to 3.0 USB Keyboard support 	Environmental Spec.
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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

ronment

	RoHS Compliant
nmental	 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)

Список деталей

Parts List - (Items Included)

	Part Number	Qty	Description
Chassis	CSE-718SAC-R4800	1	CSE-718SAC-R4800 7U Chassis
Motherboard	X110Pi-CPU	8	Super X11OPi-CPU Motherboard
Add-on Card / Module	AOC-MTG-I4TM-P	1	[NR]AOC-MTG-I4TM-P
Add-on Card / Module	AOM-X110PI-HDD-P	1	Storage add-on module for X11OPI series MB
Add-on Card / Module	AOM-X11OPI-KVM-P	1	KVM board for X11OPI Eight Way system
Add-on Card / Module	AOM-X110Pi-LBG-P	1	PCH and BMC Add on Module for X110Pi series 7u 8-way system,
Backplane	BPN-SAS3-213A	1	16-port 2U SAS3 12Gbps direct-attached backplane, support up to 16x 2.5-inch SAS3/SATA3 HDD/SSD
Backplane	BPN-X11OPI	1	Midplane for X11 8-way 7U server 7089P, support hot plug PCIE
Cable 1	CBL-0218L	1	USB/KVM/SUVI,36 PIN TO 9 PIN/15 PIN/2 USB CH,11.5CM,30/28AWG
Cable 2	CBL-0449L	1	HDD power extension for X8OBN, special 8 pin to 4 HDD. 45cm. 18AWG
Cable 3	CBL-SAST-0508-02	2	MINI SAS HD-MINI SAS,6G,INT,50CM,SB,30AWG
Riser Card	RSC-BLG-E16R	8	RSC-BLG-E16R
Riser Card	RSC-S-6-OP	8	1U LHS Riser Card with one PCI-E 3.0 x16 slot for the X11OPI
Riser Card	RSC-X110PI-PCIE	5	PCIE riser card for X11OPI series 7U 8 way system, RoHS
Heatsink / Retention	SNK-P0067PS	8	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K62A-1R	5	AC-DC 1600W, Titanium Level, Redundancy, 1U, DC Output: +12V and +12Vs, 203 x 73.5 x 40 mm, AC Input: 90 - 264 VAC/47-63Hz, PMBus 1.2 with DSP controller,HF,RoHS/REACH
FAN 1	FAN-0171L4	8	92x92x76 mm, 10.5K-10.8K RPM, Counter-rotating Exhaust Fan for SC718 X10 8-way Server

Optional Parts List

	Part Number	Qty	Description
Storage Options See Details		-	SAS3 and NVMe Options
GPU Power Cable	CBL-PWEX-0665	-	PCIe 8 pin female(black) to CPU 8 pin female(white), K80/M60/M40 GPU power cable, 30cm, 18AWG,RoHS/REACH
··· · · · · · · · · · · · · · · · · ·		3/2/1-year onsite 24x7x4 service 3/2/1-year onsite NBD service	
Software	SFT-OOB-LIC • @Store	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)