

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SYS-7049GP-TRT

SKU SYS-7049GP-TRT

4U

Supermicro

SuperWorkstation SYS-7049GP-TRT

(Angled View – System)



8x 3.5" Hot-swap
SAS3/SATA3 Drive Bays
(4 x NVMe optional)



© Super Micro Computer, Inc. Information in this document is subject to change without notice.

FORM FACTOR

4U

MAX POWER (BASE)

602 W

HEAT OUTPUT

2,054 BTU/h

PRICE

On request



REQUEST A QUOTATION ONLINE
serverinvest.com/product/sys-7049gp-trt



01 Product overview

The Supermicro SYS-7049GP-TRT is a server built on dual Dual Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Process processors with up to 4 TB of memory in 16 DIMM slots.

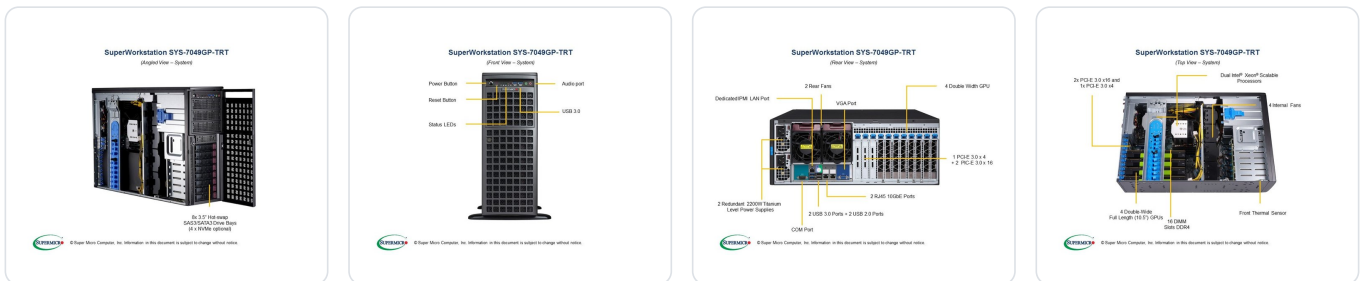
ServerInvest configures every SYS-7049GP-TRT to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Dual Dual Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Process
- Up to 4 TB memory · 16 DIMM slots
- 8 Hot-swap 3.5" drive bays
- Power: 1200W with Input 100-127Vac
- Networking: Intel X550 Dual Port 10GBase-T

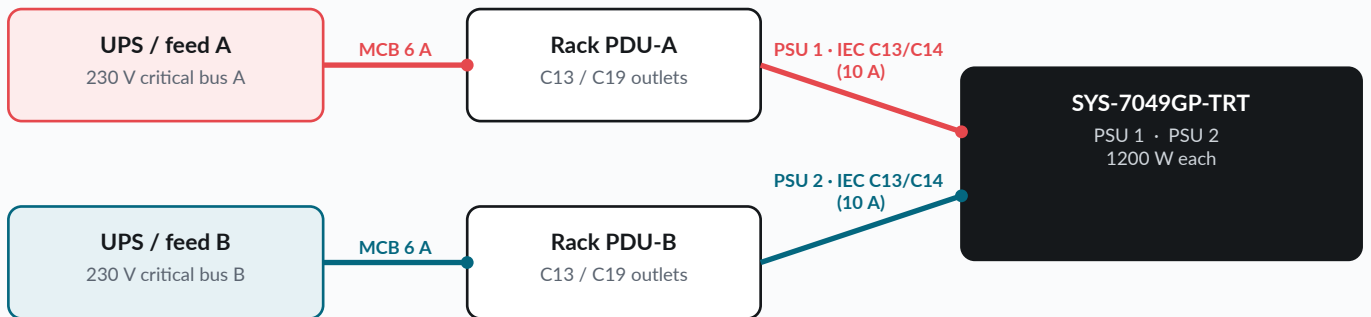
KEY SPECIFICATIONS

Form factor	4U
Processor	2× Dual Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Process
Memory	16 DIMM slots, up to 4 TB
Drive bays	8 (8 NVMe)
Power supply	1× 1200 W
Typical power draw	750 W
Networking	Intel X550 Dual Port 10GBase-T
Dimensions (W×H×D)	437 × 178 mm



03 Power connection diagram

Dual-feed (A/B) connection for redundant power supplies



- Connect PSU 1 to PDU-A and PSU 2 to PDU-B (independent feeds) using IEC C13/C14 (10 A) power cords.
- Maximum current per feed: 2.8 A at 230 V — each feed must be able to carry the full load if the other fails.
- Recommended protection per PDU circuit: MCB 6 A, curve C; RCD according to local regulations.
- Heat to remove at full load: 602 W = 2,054 BTU/h (0.6 kW).

04 Full specifications

PROCESSOR/CACHE

CPU	Dual Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Processors and Intel Xeon Scalable Processors ‡ , 3 UPI up to 10.4GT/s Support CPU TDP 70-205W
Cores	Up to 28 Cores
Note	‡ BIOS version 3.2 or above is required to support 2nd Gen Intel Xeon Scalable processors (codenamed Cascade Lake-R)

SYSTEM MEMORY

Memory Capacity	16 DIMM slots Up to 4TB 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
SATA	SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	Intel X550 Dual Port 10GBase-T Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Graphics

ASPEED AST2500 BMC

INPUT / OUTPUT

SATA	10 SATA3 (6Gbps) ports
LAN	2 RJ45 10GBase-T ports 1 RJ45 Dedicated IPMI LAN port
USB	5 USB 3.0 ports (2 rear, 2 via header, 1 Type A) 4 USB 2.0 ports (2 rear, 2 via headers)
Video	1 VGA port
Audio	7.1 HD Jacks
Serial Port/Header	2 COM ports (1 rear, 1 Header)

SYSTEM BIOS

BIOS Type	AMI 32Mb SPI Flash ROM
-----------	------------------------

MANAGEMENT

Software	Intel Node Manager IPMI 2.0 SSM , SPM , SUM SuperDoctor 5
----------	--

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

CHASSIS

Form Factor	4U Rackmountable / Tower Optional Rackmount Kit
Model	CSE-747BTS-R2K20BP

DIMENSIONS AND WEIGHT

Height	18.2" (462mm)
Width	7.0" (178mm)
Depth	26.5" (673mm)
Package	27" (H) x 13" (W) x 38" (D)
Weight	Net Weight: 46 lbs (20.9 kg) Gross Weight: 62 lbs (28.1 kg)
Available Colors	Dark Gray

FRONT PANEL

Buttons	Power On/Off button System Reset button
---------	--

LEDs	Power status LED Hard drive activity LED Network activity LEDs System Overheat & Power Fail LED
Ports	2 Front USB 3.0 Ports

EXPANSION SLOTS

PCI-Express	4 PCI-E 3.0 x16 (double-width) slots 2 PCI-E 3.0 x16 (single-width) slots 1 PCI-E 3.0 x4 (in x8 slot)
-------------	---

DRIVE BAYS / STORAGE

Hot-swap	8 Hot-swap 3.5" drive bays Optional 4x 2.5" NVMe supported
M.2	1 NVMe based M.2 SSD Form Factors: 2280, 22110

SYSTEM COOLING

Fans	4 Heavy duty fans 2 Rear exhaust fans 2 Optional Rear fans (required for Passive GPUs)
Heatsink	2 Active heatsink with optimal fan speed control

POWER SUPPLY

Total Output Power and Input	1200W with Input 100-127Vac 1800W with Input 200-220Vac 1980W with Input 220-230Vac 2090W with Input 230-240Vac 2200W with Input 220-240Vac (for UL/cUL use only) 2090W with Input 230-240Vdc (for CCC only)
AC Input Frequency	50-60Hz
Dimension (W x H x L)	76 x 40 x 336 mm
+12V	Max: 100A / Min: 0A (100-127Vac) Max: 150A / Min: 0A (200-220Vac) Max: 165A / Min: 0A (220-230Vac) Max: 174.17A / Min: 0A (230-240Vac) Max: 183.3A / Min: 0A (220-240Vac)
5VSB	Max: 1A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
------	----------------

Environmental Spec.

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)

05 Built, tested & supported by ServerInvest

Engineered configuration

Every option validated for socket, memory channels, PCIe lanes, power and cooling.

48-hour burn-in

Assembled, firmware-updated and stress-tested before it leaves our workshop.

3-year warranty

Standard on every system, with on-site next-business-day upgrades available.

Rack-ready delivery

Rails, cable management and labelling included — delivered across Europe.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
office@serverinvest.com

