

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SSG-5049P-E1CTR36L

SKU SSG-5049P-E1CTR36L

4U

Supermicro

SuperStorage SSG-5049P-E1CTR36L

(Angled View – System)



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FORM FACTOR

4U

MAX POWER (BASE)

386 W

HEAT OUTPUT

1,317 BTU/h

PRICE

On request



REQUEST A QUOTATION ONLINE

serverinvest.com/product/ssg-5049p-e1ctr36l



01 Product overview

The Supermicro SSG-5049P-E1CTR36L is a server built on Single Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Proce with up to 2 TB of memory in 8 DIMM slots.

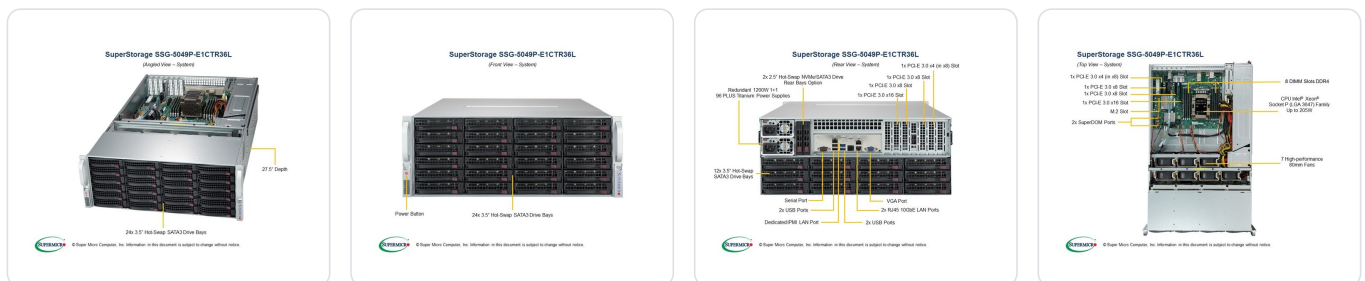
ServerInvest configures every SSG-5049P-E1CTR36L to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Single Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Proce
- Up to 2 TB memory · 8 DIMM slots
- 36 Hot-swap 3.5" SAS/SATA drive bays
- Power: 1000W/1200W
- Networking: Dual LAN with 10GBase-T with Intel X722 + X557

KEY SPECIFICATIONS

Form factor	4U
Processor	Single Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Proce
Memory	8 DIMM slots, up to 2 TB
Drive bays	36
Power supply	1× 1000 W
Typical power draw	450 W
Networking	Dual LAN with 10GBase-T with Intel X722 + X557
Dimensions (W×H×D)	437 × 178 mm



02 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
110 W	247 W	386 W	1,317 BTU/h	0.4 kW	39%

Typical 247 W · max 386 W · single PSU rating 1000 W

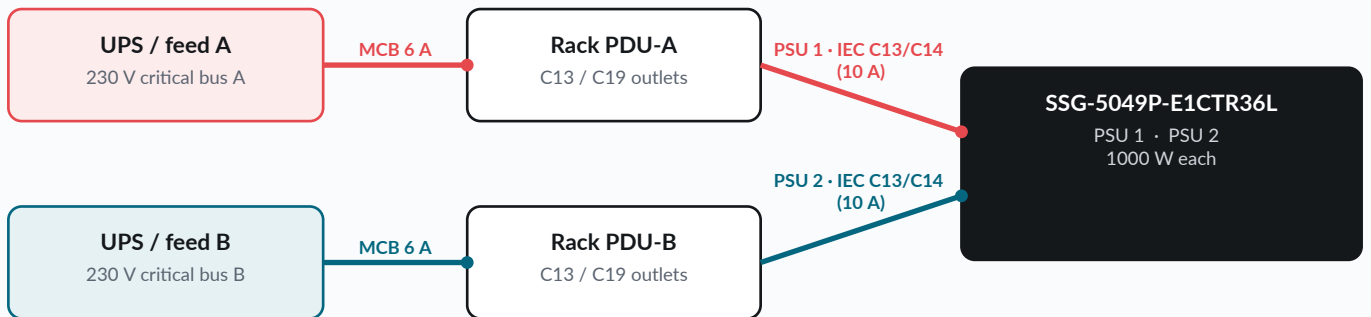
Annual IT energy (24/7)	1,804 kWh
Annual facility energy (PUE 1.5)	2,706 kWh
Annual energy cost	€361 IT · €541 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.70 t (grid factor 0.26 kg/kWh)
Power supplies	1× 1000 W

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	72 W	112 W	160 W
CPU (base configuration)	25 W	110 W	185 W
2× Memory (base configuration)	6 W	10 W	18 W

DC loads converted to wall power at 94% PSU efficiency; typical load assumed 70% of the time. Engineering estimates — confirm with the manufacturer's power calculator for critical designs.

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: 1.8 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: 386 W = 1,317 BTU/h (0.4 kW).

04 Full specifications

PROCESSOR/CACHE

CPU	Single Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Processors and Intel Xeon Scalable Processors ‡ Support CPU TDP 70-205W *
Cores	Up to 28 Cores
Note	* Certain high frequency optimized CPU are not supported, such as Intel Gold 6250 and 6256. Please contact Supermicro Technical Support for additional information.
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	8 DIMM slots Up to 2TB 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 C622 chipset
SATA	SATA3 (6Gbps) via C622 controller RAID 0, 1, 5, 10 support
SAS	SAS3 (12Gbps) via Broadcom 3008 SW RAID 0, 1, 10

Network Controllers	Dual LAN with 10GBase-T with Intel X722 + X557
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

LAN	2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	5 USB 3.0 ports (2 rear + 2 headers + 1 Type A) 8 USB 2.0 ports (2 rear + 6 headers)
VGA	1x VGA port
Serial Port / Header	2 COM Ports (1 rear, 1 header)

SYSTEM BIOS

BIOS Type	AMI UEFI
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MANAGEMENT

Software	Intel Node Manager IPMI 2.0 KVM with dedicated LAN NMI SPM , SUM SuperDoctor 5 Watch Dog
Power Configurations	ACPI Power Management

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 Rackmount
Model	CSE-847BTS-R1K23LPBP

DIMENSIONS AND WEIGHT

Width	17.2" (437mm)
Height	7" (178mm)
Depth	27.5" (699mm)
Package	17.5" (H) x 27" (W) x 39.5" (D)
Weight	Gross Weight: 102.5 lbs (46.4 kg) Net Weight: 65.5 lbs (29.7 kg)
Available Colors	Black

FRONT PANEL

Buttons	Power On/Off button System Reset button
LEDs	Power status LED Hard drive activity LED Network activity LEDs System Information LED Power fail LED

EXPANSION SLOTS

PCI-Express	1 PCI-E 3.0 x16 1 PCI-E 3.0 x8 1 PCI-E 3.0 x8 1 PCI-E 3.0 x4 (in x8)
M.2	1x M.2 Interface: PCI-E 3.0 x4 and SATA Form Factor: 2280 Key: M-Key Double Height Connector

DRIVE BAYS / STORAGE

Hot-swap	36 Hot-swap 3.5" SAS/SATA drive bays (24 front + 12 rear drive bays)
Fixed	4 Internal fixed 2.5" drive bays
Optional	2 Hot-swap 2.5" NVMe/SATA drive bays (rear) 2 Internal fixed bay support up to 4x 2.5" drive bays
M.2	M.2 Interface: PCI-E 3.0 x4 and SATA Form Factor: 2280 Key: M-Key Double Height Connector

SYSTEM COOLING

Fans	7 High-performance 80mm cooling fans
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POWER SUPPLY (76MM WIDTH)

Total Output Power	1000W/1200W
Dimension (W x H x L)	76 x 40 x 336 mm
Input	100-127Vac / 15-12A / 50-60Hz 200-240Vac / 8.5-7A / 50-60Hz 200-240Vdc / 8.5-7A (for CCC only)
+12V	Max: 83A / Min: 0A (100-127Vac) Max: 100A / Min: 0A (200-240Vac) Max: 100A / Min: 0A (200-240Vdc)
+5Vsb	Max: 4A / Min: 0A
Output Type	19 Pairs Gold Finger Connector
Certification	Titanium Level [Test Report]

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
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Environmental Spec.

Operating Temperature:
10°C ~ 35°C (50°F ~ 95°F)
Non-operating Temperature:
-40°C to 70°C (-40°F to 158°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

