

TECHNICAL DATASHEET

SUPERMICRO · TOWER SERVERS & WORKSTATIONS

Supermicro Server SYS-5029S-TN2

SKU SYS-5029S-TN2

Tower

Supermicro

SuperServer SYS-5029S-TN2*(Angled View – System)*

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FORM FACTOR

Tower

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

On request**REQUEST A QUOTATION ONLINE**serverinvest.com/product/sys-5029s-tn2

01 **Product overview**

The Supermicro SYS-5029S-TN2 is a server built on Intel Core with up to 32 GB of memory.

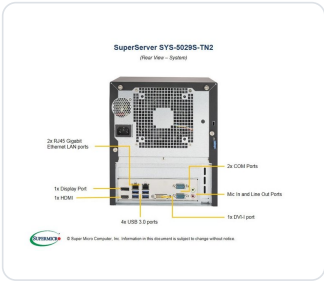
ServerInvest configures every SYS-5029S-TN2 to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Core
- Up to 32 GB memory
- 4 Hot-swap 3.5" drive bays
- Power: 100 - 240V, 50 - 60Hz
- Networking: Intel PHY i219LM + Intel i210AT Gigabit Ethernet LAN Controllers

KEY SPECIFICATIONS

Form factor	Tower
Processor	Intel Core
Memory	up to 32 GB
Drive bays	6
Typical power draw	450 W
Networking	Intel PHY i219LM + Intel i210AT Gigabit Ethernet LAN Controllers



02 **Power & thermal**

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
73 W	190 W	306 W	1,044 BTU/h	0.3 kW	—



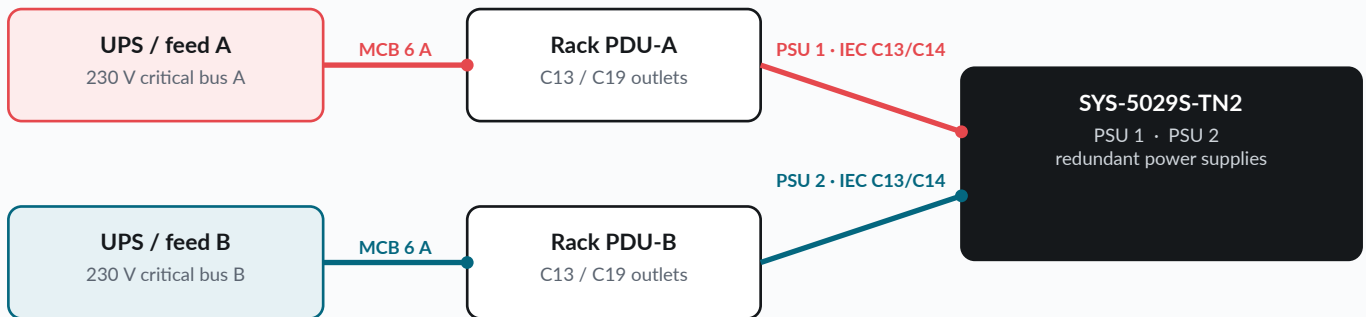
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	Redundant hot-swap PSUs — rating depends on the final configuration

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 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 power cords.
- Maximum current per feed: 1.4 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: 306 W = 1,044 BTU/h (0.3 kW).

04 Full specifications

PROCESSOR/CACHE

CPU	Intel 7th/6th Gen Core i7/i5/i3 series, Intel Celeron, Intel Pentium processors; CPU TDP support up to 65W TDP Single Socket H4 (LGA 1151)
Note	BIOS version 2.0 or above is required to support 7th Generation Intel Core Processors

SYSTEM MEMORY

Memory Capacity	2x 260-pin DDR4 SODIMM slots Up to 32GB DDR4 Non-ECC UDIMM
Memory Type	2400/2133/1866/1600MHz Non-ECC DDR4 SDRAM 72-bit, 260-pin gold-plated SODIMMs
DIMM Sizes	16GB, 8GB, 4GB
Memory Voltage	1.2 V

ON-BOARD DEVICES

Chipset	Intel Q170 Express Chipset
SATA	Onboard controller for 4x SATA3 (6Gbps) ports with RAID 0, 1, 5, 10
Network Controllers	Intel PHY i219LM + Intel i210AT Gigabit Ethernet LAN Controllers Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	RealTek ALC 888S High Definition Audio

INPUT / OUTPUT

Serial ATA	5 SATA 3.0 ports (6Gbps) including 1 mSATA Raid 0, 1, 5, 10
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LAN	2 RJ45 Gigabit Ethernet LAN ports
USB	4 USB 3.0 ports (rear) 2 USB 2.0 ports (front) 1 USB 2.0 Type A
Audio	2 port jack
Video/Display	1 HDMI, 1 DP (Display Port), 1 DVI-I, Intel HD Graphics, 3 Independent Displays
Serial Port / Header	2 COM ports (2 rear)
DOM	SATA DOM (Disk on Module) power connector support
TPM	1 TPM 20-pin Header

MANAGEMENT

Software	SuperDoctor 5 Watch Dog AMT NMI vPro
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CHASSIS

Form Factor	Mini Tower
Model	CSE-721TQ-350B

DIMENSIONS AND WEIGHT

Height	9.45" (240mm)
Width	8.27" (210mm)
Depth	11" (279mm)
Weight	Gross Weight: 15 lbs (6.8 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 Information LED

EXPANSION SLOTS

PCI-E	1 PCI-E 3.0 x16 slot 1 Mini-PCIe with mSATA support
M.2	M key 2242/2280 PCI-E 3.0 x4

DRIVE BAYS

HDD	4 Hot-swap 3.5" drive bays 2 internal 2.5" drive bays
Peripheral	1 slim DVD-ROM drive bay (shared with 1 internal 2.5" drive bay)

POWER SUPPLY

AC Voltage	100 - 240V, 50 - 60Hz
+5V	Max:15 Amp; Min:0.2 Amp
+12V	Max:28 Amp; Min:0.1 Amp @100V-240V
-12V	Max: 0.3 Amp Min: 0.05 Amp
+3.3V	Max: 10 Amp Min: 0.1 Amp
5VSB	Max: 2 Amp Min: 0.05 Amp
Certification	Gold Certified

SYSTEM BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI UEFI BIOS
BIOS Features	Plug and Play (PnP) DMI 2.3 PCI 3.0 ACPI 5.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 3.0 UEFI 2.3.1 RTC (Real Time Clock) Wakeup

OPERATING ENVIRONMENT / COMPLIANCE

RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 0°C to 40°C (32°F to 104°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

