

TECHNICAL DATASHEET

SUPERMICRO · TOWER SERVERS & WORKSTATIONS

Supermicro Server SYS-5028L-TN2

SKU SYS-5028L-TN2

Tower

LGA4677

Supermicro

SuperServer SYS-5028L-TN2*(Angled View – System)*

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FORM FACTOR

Tower

MAX POWER (BASE)

243 W

HEAT OUTPUT

829 BTU/h

PRICE

On request**CONFIGURE & QUOTE ONLINE**serverinvest.com/product/sys-5028l-tn2

01 **Product overview**

The Supermicro SYS-5028L-TN2 is a server built on Intel Xeon Scalable 4th/5th Gen with up to 16 GB of memory.

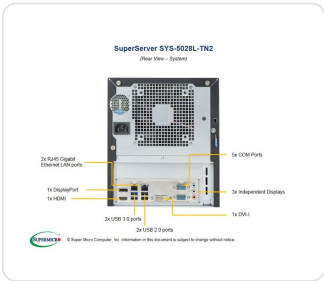
ServerInvest configures every SYS-5028L-TN2 to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Xeon Scalable 4th/5th Gen
- Up to 16 GB memory
- 4x 3.5" Hot-swap drive bays
- Power: 100 - 240V, 50 - 60Hz
- Networking: Intel i217 + Intel i210AT Controllers

KEY SPECIFICATIONS

Form factor	Tower
Processor	Intel Xeon Scalable 4th/5th Gen
Socket	LGA4677
Memory	up to 16 GB
Memory type	DDR5-5600 ECC RDIMM
Drive bays	6
Typical power draw	450 W
Networking	Intel i217 + Intel i210AT Controllers



02 **Base configuration**

Components included in the listed base price — every part can be changed in the online configurator

COMPONENT	DESCRIPTION	QTY
Base system	Supermicro Server SYS-5028L-TN2	1
Processor	Intel Xeon Bronze 3408U Processor 8 Cores (22.5M Cache, 1.80/1.90 GHz) 125W	1
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

Price on request — contact us for a tailored quotation

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
67 W	160 W	243 W	829 BTU/h	0.2 kW	—

Typical 160 W · max 243 W

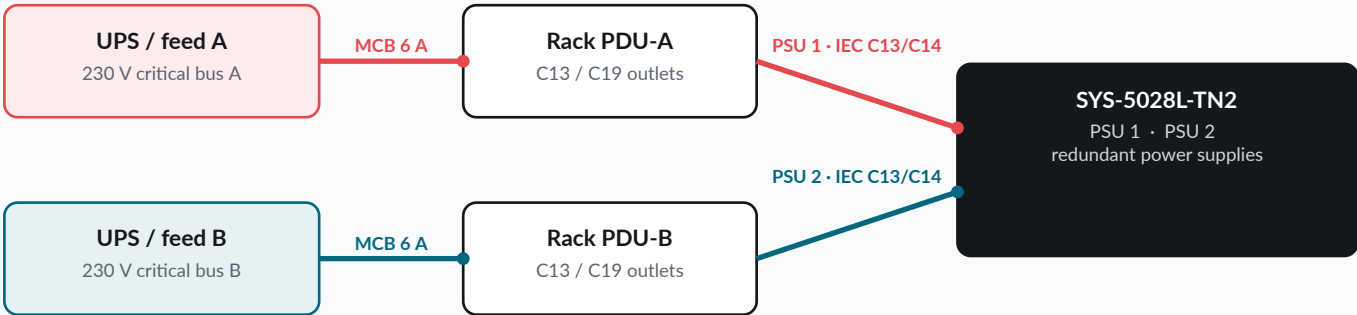
Annual IT energy (24/7)	1,157 kWh
Annual facility energy (PUE 1.5)	1,736 kWh
Annual energy cost	€231 IT · €347 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.45 t (grid factor 0.26 kg/kWh)
Power supplies	Redundant hot-swap PSUs — rating depends on the final configuration

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
CPU — Intel Xeon Bronze 3408U Processor 8 Cores	19 W	81 W	125 W
2× Memory 16 GB DIMM	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.

04 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: 1.1 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: 243 W = 829 BTU/h (0.2 kW).

05 Full specifications

PROCESSOR/CACHE

CPU Intel Xeon processor E3-1200 v3 and 4th Gen Core i7/i5/i3, Pentium, Celeron processors
Single Socket H3 (LGA 1150)
Performance-Optimized with 84W TDP Processor

SYSTEM MEMORY

Memory Capacity	2x 204-pin DDR3 SODIMM slots Supports up to 16 GB DDR3 non-ECC SODIMM
Memory Type	1600MHz non-ECC DDR3 SDRAM 64-bit, 204-pin gold-plated SODIMMs
DIMM Sizes	8GB, 4GB, 2GB, 1GB
Memory Voltage	1.5V, 1.35V

ON-BOARD DEVICES

Chipset	Intel Q87 Express Chipset
SATA	Onboard controller for 4x SATA3 (6Gbps) ports with RAID 0, 1, 5, 10
Network Controllers	Intel i217 + Intel i210AT Controllers Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Graphics	Intel HD 4600 Graphics, Processor Graphic

INPUT / OUTPUT

Serial ATA	4x SATA 3.0 ports (6Gbps) including 1x mSATA Raid 0, 1, 5, 10
LAN	2x RJ45 Gigabit Ethernet LAN ports
USB	2x USB 3.0 ports (rear) 5x USB 2.0 ports (2 rear, 2 via headers, 1 type A)
Audio	HD Audio Front Panel Headers
Display	1x DisplayPort, 1x HDMI, 1x DVI-I, 3 Independent Displays
DOM	SATA DOM (Disk on Module) power connector support
Security	1 TPM 1.2 20-pin Header

MANAGEMENT

Software	SuperDoctor III Watch Dog NMI
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CHASSIS

Form Factor	Mini Tower
Model	CSE-721TQ-250B

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
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LEDs	Power LED Hard drive activity LED Network activity LEDs System Overheat LED
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EXPANSION SLOTS

PCI-E	1x PCI-E 3.0 x16 slot 1x Mini-PCIe with mSATA support
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DRIVE BAYS

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

POWER SUPPLY

AC Voltage	100 - 240V, 50 - 60Hz
+5V	Max:14 Amp; Min:0.5 Amp
+12V	Max:18 Amp; Min:1 Amp @100V-240V
-12V	Max: 0.3 Amp
+3.3V	Max: 12 Amp Min: 0.3Amp
5VSB	Max: 2.5 Amp
Certification	Bronze Certified

SYSTEM BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI UEFI BIOS
BIOS Features	Plug and Play (PnP) APM 1.2 DMI 2.3 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.7.1 UEFI 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: -20°C to 60°C (-4°F to 140°F) Operating Relative Humidity: 10% to 85% (non-condensing) Non-operating Relative Humidity: 10% to 95% (non-condensing)

06 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.



Ready to order or need changes?

Configure this system online or talk to a solutions engineer — we reply within one business day.

office@serverinvest.com

