

TECHNICAL DATASHEET

SUPERMICRO • GPU & AI SERVERS

Supermicro GPU SuperServer SYS-521GU-TNXR

5U • Intel Xeon Scalable 4th/5th Gen • 10x 2.5" hot-swap NVMe/SATA bays • up to 4.1 TB RAM

SKU SYS-521GU-TNXR

5U

LGA4677

Supermicro



FORM FACTOR

5U

MAX POWER (BASE)

634 W

HEAT OUTPUT

2,163 BTU/h

PRICE

from €19,910

CONFIGURE & QUOTE ONLINE

serverinvest.com/product/sys-521gu-tnxr

01 Product overview

The Supermicro GPU SuperServer SYS-521GU-TNXR is a 5U dual-socket platform built on Intel Xeon Scalable 4th/5th Gen, supporting up to 4.1 TB of DDR5 memory.

Storage is provided by 10x 2.5" hot-swap NVMe/SATA drive bays, and the chassis accepts up to 8 GPU accelerators.

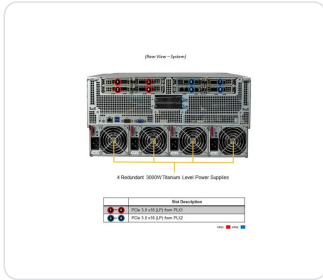
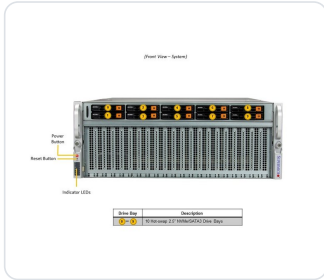
Every ServerInvest build is assembled to order, updated to the latest firmware and burn-in tested before shipping, and comes with a 3-year warranty.

HIGHLIGHTS

- Dual Intel Xeon Scalable 4th/5th Gen
- Up to 4.1 TB DDR5 memory in 16 DIMM slots
- 10x 2.5" hot-swap NVMe/SATA drive bays
- Up to 8 GPU accelerators
- On-board networking: Dual 10GbE Base-T with Intel X710-AT2
- Redundant 3000W Titanium power supplies

KEY SPECIFICATIONS

Form factor	5U
Processor	2× Intel Xeon Scalable 4th/5th Gen
Socket	LGA4677
Memory	16 DIMM slots, up to 4.1 TB
Memory type	DDR5-5600 ECC RDIMM
Drive bays	10 (10 NVMe)
GPU	Up to 8 GPUs
Power supply	2× 3000 W
Typical power draw	4550 W
Networking	Dual 10GbE Base-T with Intel X710-AT2
Dimensions (W×H×D)	437 × 222 mm



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 GPU SuperServer SYS-521GU-TNXR	1
Processor	Intel Xeon Silver 4410Y Processor 12 Cores (30M Cache, 2.00/3.90 Ghz) 150W	2
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	4
Warranty & support	3-year return-to-base warranty (included)	1

Base configuration from

€19,910
excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
186 W	423 W	634 W	2,163 BTU/h	0.6 kW	21%

Typical 423 W · max 634 W · single PSU rating 3000 W

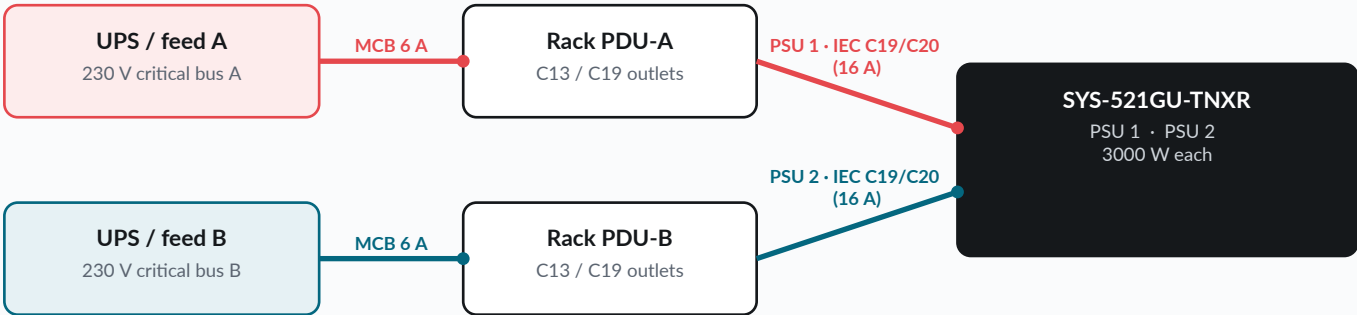
Annual IT energy (24/7)	3,083 kWh
Annual facility energy (PUE 1.5)	4,625 kWh
Annual energy cost	€617 IT · €925 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	1.20 t (grid factor 0.26 kg/kWh)
Power supplies	2× 3000 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	117 W	182 W	260 W
2× CPU — Intel Xeon Silver 4410Y Processor 12 Cores	46 W	196 W	300 W
4× Memory 16 GB DIMM	12 W	20 W	36 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 C19/C20 (16 A) power cords.
- Maximum current per feed: 2.9 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: 634 W = 2,163 BTU/h (0.6 kW).

05 Full specifications

PROCESSOR & MEMORY	
Processor family	Intel Xeon Scalable 4th/5th Gen
Sockets	2
Socket	LGA4677
Max memory	4.1 TB
Memory type	DDR5-5600 ECC RDIMM

STORAGE

Drive bays	10x 2.5" hot-swap NVMe/SATA drive bays
Drive size	2.5" Drives
Bay type	Hot-Swap Drives

CHASSIS & POWER

Form factor	5U
Power supply	Redundant 3000W Titanium
GPU support	Up to 8

NETWORKING

On-board	Dual 10GbE Base-T with Intel X710-AT2
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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

