TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Hyper A+ Server AS-2025HS-TNR

2U · AMD EPYC 9004 · 12x 3.5"/2.5" hot-swap NVMe/SATA/SAS bays · up to 3.1 TB RAM

SKU AS-2025HS-TNR | 2U | SP5 | Supermicro

Slot	Description
0 - 12	3.5" Hot-Swap NVMe/SAS/SATA Drive Bays*

*NVMe/SAS/SATA support requires additional parts in optional parts list

FORM FACTOR	MAX POWER (BASE)	HEAT OUTPUT	PRICE
2U	581 W	1,982 BTU/h	from €11,210

CONFIGURE & QUOTE ONLINE
serverinvest.com/product/as-2025hs-tnr

01 Product overview

The Supermicro Hyper A+ Server AS-2025HS-TNR is a 2U dual-socket platform built on AMD EPYC 9004, supporting up to 3.1 TB of DDR5 memory.

It is designed for virtualisation, AI, machine learning, cloud computing, enterprise server.

Storage is provided by 12x 3.5"/2.5" hot-swap NVMe/SATA/SAS drive bays.

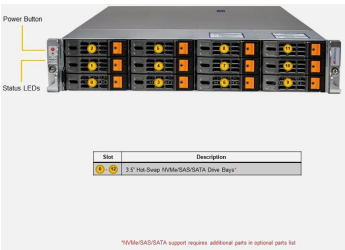
Every ServerInvest build is assembled to order, updated to the latest firmware and burn-in tested before shipping, and comes with a 3-year warranty.

KEY SPECIFICATIONS

Form factor	2U
Processor	2× AMD EPYC 9004
Socket	SP5
Memory	12 DIMM slots, up to 3.1 TB
Memory type	DDR5-5600 ECC RDIMM
Drive bays	12 (12 NVMe)
Typical power draw	830 W
Dimensions (W×H×D)	437 × 89 mm

HIGHLIGHTS

- Dual AMD EPYC 9004
- Up to 3.1 TB DDR5 memory in 12 DIMM slots
- 12x 3.5"/2.5" hot-swap NVMe/SATA/SAS drive bays



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 Hyper A+ Server AS-2025HS-TNR**	1
Processor	AMD EPYC 9124 - 16 Cores, 3.00/3.70GHz, 64MB Cache (200 Watt)	2
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	4
Warranty & support	3-year return-to-base warranty (included)	1

Base configuration from **€11,210** excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
130 W	380 W	581 W	1,982 BTU/h	0.6 kW	—

Typical 380 W · max 581 W

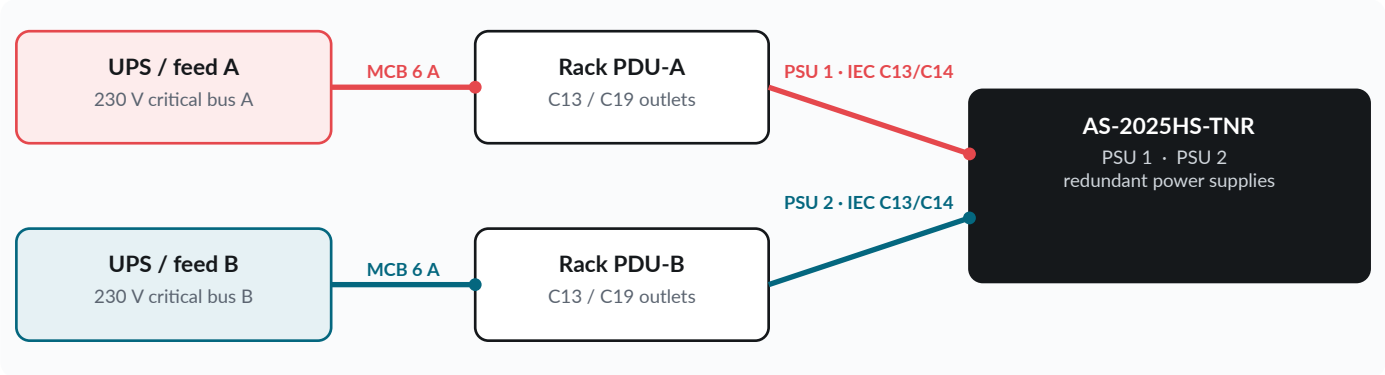
Annual IT energy (24/7)	2,672 kWh
Annual facility energy (PUE 1.5)	4,008 kWh
Annual energy cost	€534 IT · €802 incl. cooling (at 0.20 €/kWh)
CO_2 emissions / year	1.04 t (grid factor 0.26 kg/kWh)
Power supplies	Redundant hot-swap PSUs — rating depends on the final configuration

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	50 W	77 W	**110 W**
2× CPU — AMD EPYC 9124 - 16 Cores	60 W	260 W	**400 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 C13/C14 power cords.
- Maximum current per feed: 2.7 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: 581 W = 1,982 BTU/h (0.6 kW).

05 Full specifications

PROCESSOR & MEMORY	
Processor family	AMD EPYC 9004
Sockets	2
Socket	SP5
Max memory	3.1 TB
Memory type	DDR5-5600 ECC RDIMM

STORAGE

Drive bays	12x 3.5"/2.5" hot-swap NVMe/SATA/SAS drive bays
Drive size	3.5" Drives
Bay type	Hot-Swap Drives

CHASSIS & POWER

Form factor	2U

OPTIMISED FOR

Workload 1	Virtualisation
Workload 2	AI
Workload 3	Machine Learning
Workload 4	Cloud Computing
Workload 5	Enterprise Server

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.

NATCERT ISO 9001 · NATCERT ISO 14001 · NATCERT ISO 27001 · CISCO · tp-link · Omada by tp-link

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
Official manufacturer datasheet: serverinvest.com/product/as-2025hs-tnr/datasheet/manufacturer