

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Hyper A+ Server AS-2015HS-TNR

2U UP Hyper with 12 hot-swap 3.5" drive bays and up to 8 PCIe 5.0 slots

SKU AS-2015HS-TNR

2U

SP5

Supermicro



FORM FACTOR

2U

MAX POWER (BASE)

349 W

HEAT OUTPUT

1,191 BTU/h

PRICE

from €5,830

CONFIGURE & QUOTE ONLINE

serverinvest.com/product/as-2015hs-tnr

01 Product overview

The Supermicro AS-2015HS-TNR is a 2U Hyper Server built on AMD EPYC 9005 with up to 6 TB of memory in 24 DIMM slots.

2U UP Hyper with 12 hot-swap 3.5" drive bays and up to 8 PCIe 5.0 slots.

The chassis accepts up to 4 GPU accelerators for AI, rendering and HPC workloads.

ServerInvest configures every AS -2015HS-TNR 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

- AMD EPYC 9005
- Up to 6 TB memory · 24 DIMM slots
- Total 12 bays 12 front hot-swap 3.5"/2.5" NVMe*/SAS*/SATA* drive bays
- Up to 4 GPUs
- Power: 2x 1200W
- Networking: Via AIOM

KEY SPECIFICATIONS

Form factor	2U
Processor	AMD EPYC 9004
Socket	SP5
Memory	24 DIMM slots, up to 6 TB
Memory type	DDR5-6400 ECC RDIMM
Drive bays	12 (12 NVMe)
GPU	Up to 4 GPUs
Power supply	2× 1200 W
Typical power draw	530 W
Networking	Via AIOM
Dimensions (W×H×D)	437 × 89 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 Hyper A+ Server AS-2015HS-TNR	1
Processor	AMD EPYC 9124 - 16 Cores, 3.00/3.70GHz, 64MB Cache (200 Watt)	1
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

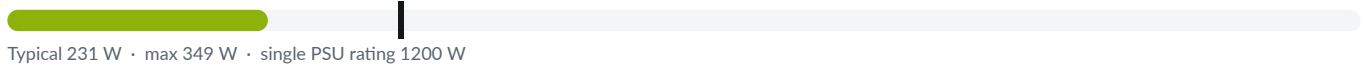
Base configuration from

€5,830
excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
91 W	231 W	349 W	1,191 BTU/h	0.3 kW	29%



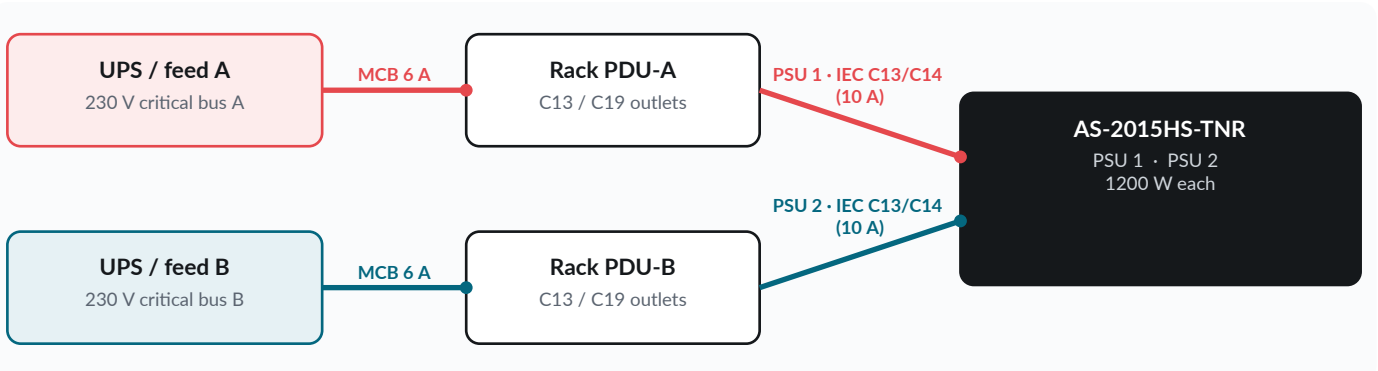
Annual IT energy (24/7)	1,656 kWh
Annual facility energy (PUE 1.5)	2,484 kWh
Annual energy cost	€331 IT · €497 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.65 t (grid factor 0.26 kg/kWh)
Power supplies	2× 1200 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	50 W	77 W	110 W
CPU — AMD EPYC 9124 - 16 Cores	30 W	130 W	200 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 (10 A) power cords.
- Maximum current per feed: 1.6 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: 349 W = 1,191 BTU/h (0.3 kW).

05 Full specifications

MOTHERBOARD	
	Super H13SSH
PROCESSOR	
CPU	Single processor(s) AMD EPYC 9004/9005 Series Processors (* AMD EPYC 9005 Series drop-in support requires board revision 2.x)

Core Count	Up to 160C/320T
Note	Supports up to 500W TDP CPUs * *Air Cooled CPUs with TDP over 290W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 4 double-width GPUs
Supported GPU	NVIDIA PCIe: H100 NVL, L4, L40S, RTX 4500 Ada, RTX 6000 Ada Generation AMD PCIe: Instinct MI210 View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	PCIe

SYSTEM MEMORY

Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC 9004 Series Processor) Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 RDIMM (AMD EPYC 9004 Series Processor) Max Memory (1DPC): Up to 3TB 5200MT/s ECC DDR5 RDIMM (AMD EPYC 9005 Series Processor) Max Memory (2DPC): Up to 6TB 4400MT/s ECC DDR5 1R RDIMM (AMD EPYC 9005 Series Processor) Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 2R RDIMM (AMD EPYC 9005 Series Processor) View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

Network Connectivity	Via AIOM View AIOM Options View AOC Options
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INPUT / OUTPUT

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 ports (rear)
Video	1 VGA port

SYSTEM BIOS

BIOS Type	AMI 32MB SPI Flash EEPROM
BIOS Features	ACPI 6.4 Plug and Play (PnP) SMBIOS 3.5 or later UEFI 2.8 USB Keyboard support

MANAGEMENT

Software	SuperCloud Composer (SCC) Supermicro Server Manager (SSM) Supermicro Update Manager (SUM) Supermicro SuperDoctor 5 (SD5) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) OOB Management Package (SFT-OOB-LIC) SuperServer Automation Assistant (SAA) New!
Power configurations	ACPI Power Management Power-on mode control for AC power loss recovery Power button override mechanism,

SECURITY

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

PC HEALTH MONITORING

Fan	Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors
Voltage	System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support

CERTIFICATIONS

Operating Systems	Genoa: ESXi 7.0 U3, ESXi 8.0, Oracle Linux 9.0, RHEL 9.0, Windows Server 2022, Windows Server 2025 Turin: Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
Enterprise Solutions	VMWare vSAN

CHASSIS

Form Factor	2U
Model	CSE-HS829-R1K24P-A

DIMENSIONS AND WEIGHT

Height	3.5" (88.9 mm)
Width	17.2" (437 mm)
Depth	31.6" (803 mm)
Package	10.4" (H) x 23.8" (W) x 43.6" (D)
Weight	Gross Weight: 69 lbs (31.3 kg) Net Weight: 39 lbs (17.7 kg)

Available Color	Black front & silver body
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FRONT PANEL

Buttons	Power On/Off UID button
LED	HDD activity LAN1 activity Power status System information

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option A* 1 PCIe 5.0 x16 (in x16) FHFL double-width slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option B* 2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option C* 2 PCIe 5.0 x16 (in x16) FHFL double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option D* 1 PCIe 5.0 x16 (in x16) FHFL double-width slot 2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option E* 4 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option F* 4 PCIe 5.0 x16 (in x16) FHFL double-width slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option G* 3 PCIe 5.0 x16 (in x16) FHFL double-width slots 2 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option H* 2 PCIe 5.0 x16 (in x16) FHFL double-width slots 4 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option I* 1 PCIe 5.0 x16 (in x16) FHFL double-width slot 6 PCIe 5.0 x8 (in x16) FHFL slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.) View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 12 bays 12 front hot-swap 3.5"/2.5" NVMe*/SAS*/SATA* drive bays (*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) View NVMe Options View Drive Options
M.2	1 M.2 PCIe 3.0 x4 NVMe slot (M-key 22110(default)/2280) 1 M.2 PCIe 3.0 x2 NVMe slot (M-key 22110(default)/2280) View M.2 Options

SYSTEM COOLING

Fans	Up to 4x 8cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

POWER SUPPLY

2x 1200W
2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies
Dimension (WxHxL)
73.5 x 40 x 265 mm

OPERATING ENVIRONMENT

Environmental Spec.	Operating Temperature: 10°C to 35°C (50°F to 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)
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ENVIRONMENTAL / RECYCLING

Recycle	Return Server-End of Life Product
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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.

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Official manufacturer datasheet: serverinvest.com/product/as-2015hs-tnr/datasheet/manufactur

