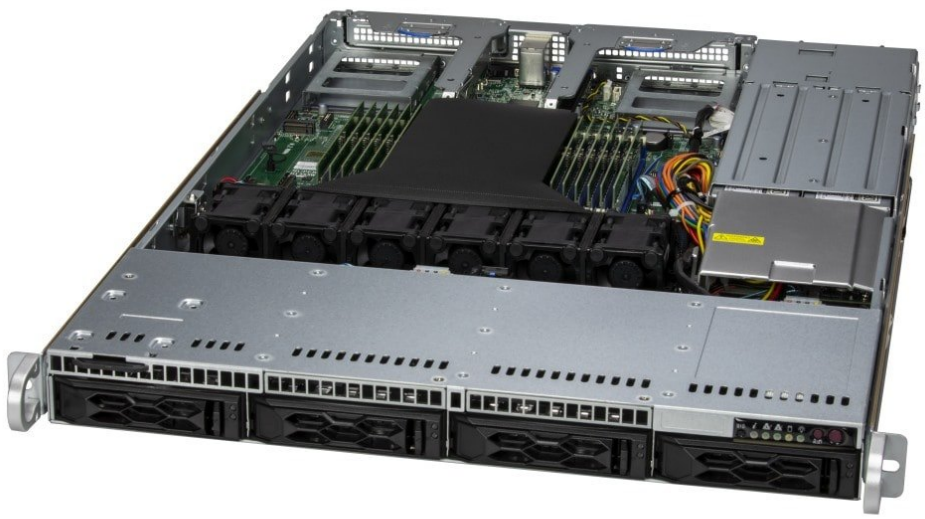
TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro CloudDC A+ Server AS-1015CS-TNR

1U CloudDC with 4 hot-swap 3.5" NVMe/SAS/SATA bays and 2 PCIe 5.0 x16 slots + 2 AIOM slots

SKU AS-1015CS-TNR | 1U | SP5 | Supermicro



FORM FACTOR	MAX POWER (BASE)	HEAT OUTPUT	PRICE
1U	322 W	1,099 BTU/h	from €5,420

ISO 9001 · ISO 14001 · ISO 27001 · cisco · tp-link · Omada by tp-link

CONFIGURE & QUOTE ONLINE
serverinvest.com/product/as-1015cs-tnr

01 Product overview

The Supermicro AS-1015CS-TNR is a 1U CloudDC Server built on AMD EPYC 9005 with up to 3 TB of memory in 12 DIMM slots.

1U CloudDC with 4 hot-swap 3.5" NVMe/SAS/SATA bays and 2 PCIe 5.0 x16 slots + 2 AIOM slots.

The chassis accepts up to 2 GPU accelerators for AI, rendering and HPC workloads.

ServerInvest configures every AS -1015CS-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 3 TB memory · 12 DIMM slots
- Total 4 bays 4 front hot-swap 3.5"/2.5" SATA drive bays
- Up to 2 GPUs
- Power: 2x 860W
- Networking: Via AIOM

KEY SPECIFICATIONS

Form factor	**1U**
Processor	**AMD EPYC 9004**
Socket	**SP5**
Memory	**12 DIMM slots, up to 3 TB**
Memory type	**DDR5-6400 ECC RDIMM**
Drive bays	**4 (12 NVMe)**
GPU	**Up to 2 GPUs**
Power supply	**2× 860 W**
Typical power draw	**490 W**
Networking	**Via AIOM**
Dimensions (W×H×D)	**437 × 44 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 CloudDC A+ Server AS-1015CS-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 **€5,420** excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
79 W	212 W	322 W	1,099 BTU/h	0.3 kW	37%

Typical 212 W · max 322 W · single PSU rating 860 W

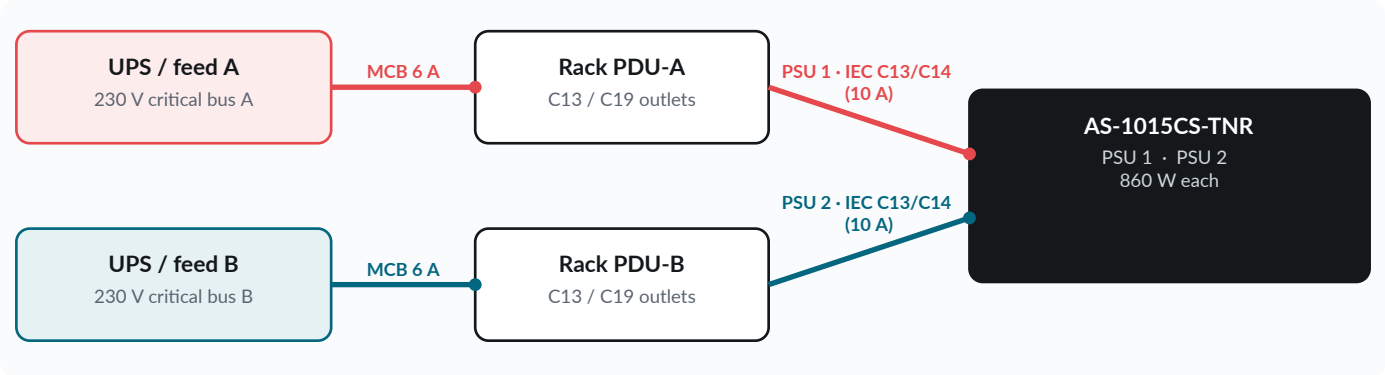
Annual IT energy (24/7)	1,508 kWh
Annual facility energy (PUE 1.5)	2,262 kWh
Annual energy cost	€302 IT · €452 incl. cooling (at 0.20 €/kWh)
CO_2 emissions / year	0.59 t (grid factor 0.26 kg/kWh)
Power supplies	2× 860 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	**85 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: 1.5 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: 322 W = 1,099 BTU/h (0.3 kW).

05 Full specifications

MOTHERBOARD

	Super H13SSW

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 400W TDP CPUs * *Air Cooled CPUs with TDP over 360W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 2 single-width GPUs
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	PCIe

SYSTEM MEMORY

Memory	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC 9004 Series Processor, MB R1.x/R2.0/R2.01) Max Memory (1DPC): Up to 3TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC 9005 Series Processor, MB R2.0) Max Memory (1DPC): Up to 3TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC 9005 Series Processor, MB R2.01) View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

Network Connectivity	Via AIOM View AIOM Options View AOC Options

INPUT / OUTPUT

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

SYSTEM BIOS

BIOS Type	AMI 32MB SPI Flash ROM
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, Hypervisor 8.2.1, Oracle Linux 9.0, RHEL 9.0, SLES 12 SP5, SLES 15 SP4, Windows Server 2022, Windows Server 2025 Turin: Windows Server 2025 View all OS Compatibility and Certification Matrix
Enterprise Solutions	VMWare vSAN Microsoft Azure Local

CHASSIS

Form Factor	1U Rackmount
Model	CSE-LA15TS-R860AWP2

DIMENSIONS AND WEIGHT

Height	1.7" (43 mm)
Width	17.2" (437 mm)
Depth	25.6" (650 mm)
Package	7.8" (H) x 23.8" (W) x 34.6" (D)
Weight	Gross Weight: 46 lbs (20.9 kg) Net Weight: 25 lbs (11.3 kg)
Available Color	Black front & sliver body

FRONT PANEL

Buttons	Power On/Off Reset button Universal Information (UID)

LED	Drive activity Network activity Power status Universal Information (UID)

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 2 PCIe 5.0 x16 FHHL slots 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) View AOC Options

DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 4 bays 4 front hot-swap 3.5"/2.5" SATA drive bays Option A: Total 4 bays 4 front hot-swap 2.5" PCIe 5.0 NVMe* drive bays Option B: Total 4 bays 4 front hot-swap 3.5"/2.5" SAS* drive bays (*NVMe/SAS 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	2 M.2 PCIe 3.0 x2 NVMe slots (M-key 2280/22110) View M.2 Options

SYSTEM COOLING

Fans	Up to 6x 4cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

POWER SUPPLY

	2x 860W 2x 860W 2x 860W 2x 860W Redundant (1 + 1) Platinum Level (94%) power supplies Dimension (WxHxL) 54.5 x 40.25 x 322 mm

OPERATING ENVIRONMENT

Environmental Spec.	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% 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.

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-1015cs-tnr/datasheet/manufacturer