

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro 2U Mainstream Server AS-2024S-TR

2U Mainstream with dual AMD EPYC and 6 PCIe 4.0 slots

SKU AS-2024S-TR

2U

Supermicro



FORM FACTOR

2U

MAX POWER (BASE)

549 W

HEAT OUTPUT

1,873 BTU/h

PRICE

On request

REQUEST A QUOTATION ONLINE

serverinvest.com/product/as-2024s-tr

01 Product overview

The Supermicro AS-2024S-TR is a 2U Mainstream Server built on dual Dual Socket SP3 AMD EPYC 7002/7003 Series Processors processors with up to 4 TB of memory in 16 DIMM slots.

2U Mainstream with dual AMD EPYC and 6 PCIe 4.0 slots.

ServerInvest configures every AS -2024S-TR 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

- Dual Dual Socket SP3 AMD EPYC 7002/7003 Series Processors
- Up to 4 TB memory · 16 DIMM slots
- Total 12 bays 4 front hot-swap 3.5" NVMe drive bays
- Power: 2x 920W
- Networking: 2 RJ45 1GbE

KEY SPECIFICATIONS

Form factor	2U
Processor	2× Dual Socket SP3 AMD EPYC 7002/7003 Series Processors
Memory	16 DIMM slots, up to 4 TB
Drive bays	32 (32 NVMe)
Power supply	2× 920 W
Typical power draw	750 W
Networking	2 RJ45 1GbE
Dimensions (W×H×D)	437 × 89 mm



02 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
119 W	337 W	549 W	1,873 BTU/h	0.5 kW	60%

Typical 337 W · max 549 W · single PSU rating 920 W

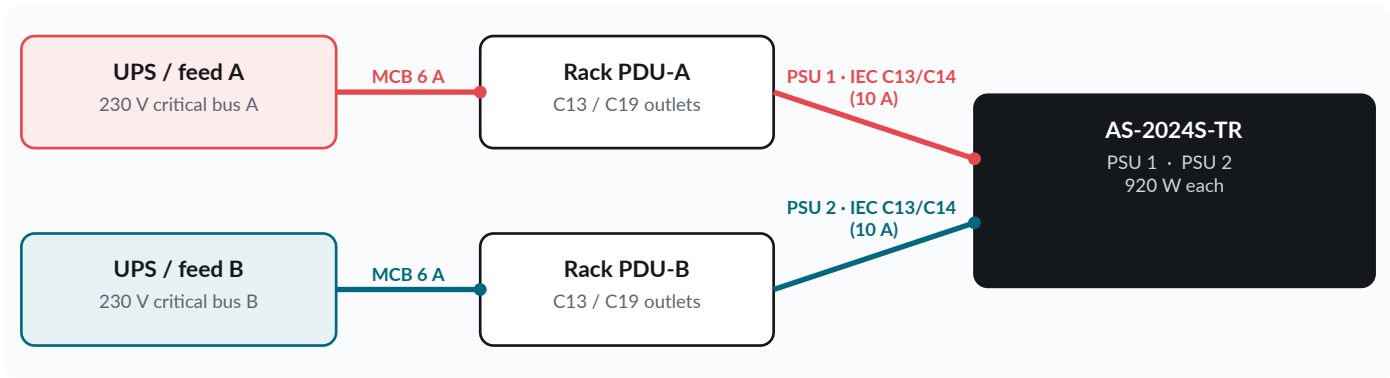
Annual IT energy (24/7)	2,379 kWh
Annual facility energy (PUE 1.5)	3,569 kWh
Annual energy cost	€476 IT · €714 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.93 t (grid factor 0.26 kg/kWh)
Power supplies	2× 920 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	50 W	77 W	110 W
2× CPU (base configuration)	50 W	220 W	370 W
4× Memory (base configuration)	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.

03 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: 2.5 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: 549 W = 1,873 BTU/h (0.5 kW).

04 Full specifications

MOTHERBOARD

Super H12DSi-N6

PROCESSOR

CPU	Dual Socket SP3 AMD EPYC 7002/7003 Series Processors
Core Count	Up to 64C/128T; Up to 256MB Cache per CPU
Note	Supports up to 240W TDP CPUs (Air Cooled)

SYSTEM MEMORY

Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM View Memory Options
Memory Voltage	1.2V

ON-BOARD DEVICES

Network Connectivity	2 RJ45 1GbE View AOC Options
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INPUT / OUTPUT

LAN	1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 1 GbE LAN ports
USB	2 USB 2.0 ports (rear) 2 USB 3.0 ports (rear)
Video	1 VGA port
DOM	2 Super DOM (Disk on Module) ports

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) SuperServer Automation Assistant (SAA) New!
Power configurations	ACPI/APM Power Management

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 System Lockdown

PC HEALTH MONITORING

CPU	7 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory.
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

CERTIFICATIONS

Operating Systems	Milan: ESXi 7.0 U3, ESXi 8.0, Hypervisor 8.2.1, Oracle Linux 8.4, RHEL 8.4, SLES 15 SP4, Windows Server 2019, Windows Server 2022 View all OS Compatibility and Certification Matrix
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CHASSIS

Form Factor	2U Rackmount
Model	CSE-LA26TS-R920LPP1

DIMENSIONS AND WEIGHT

Height	3.5" (89 mm)
Width	17.2" (437 mm)
Depth	25.5" (648 mm)
Package	11.4" (H) x 26.7" (W) x 34.5" (D)
Weight	Gross Weight: 60 lbs (27.2 kg) Net Weight: 33.5 lbs (15.2 kg)
Available Color	Silver

FRONT PANEL

Buttons	Power On/Off button Reset button
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LED	HDD activity LED Information LED Network activity LEDs Power Fail LED Power status LED
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EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 3 PCIe 4.0 x8 LP slots 3 PCIe 4.0 x16 LP slots View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 12 bays 4 front hot-swap 3.5" NVMe drive bays 8 front hot-swap 3.5" SAS*/SATA drive bays Option A: Total 12 bays 12 front hot-swap 2.5" SAS/SATA drive bays (*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	1 M.2 NVMe slot (M-key 2280/22110) View M.2 Options

SYSTEM COOLING

Fans	Up to 3 Middle 80mm Fan(s)
Air Shroud	1 Clear Plastic Air Shroud

POWER SUPPLY

2x 920W
2x 920W Redundant Platinum Level (94%) power supplies
Dimension (WxHxL)
76 x 40 x 336 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)
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05 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.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
office@serverinvest.com

Official manufacturer datasheet: serverinvest.com/product/as-2024s-tr/datasheet/manufacturer

