TECHNICAL DATASHEET

SUPERMICRO · STORAGE SERVERS

Supermicro 2U Storage Server ASG-2015S-E1CR24L

2U front/top-loading storage server with 24 hot-swap 3.5" SAS/SATA bays and PCIe 5.0

SKU ASG-2015S-E1CR24L | 2U | SP5 | Supermicro

FORM FACTOR	MAX POWER (BASE)	HEAT OUTPUT	PRICE
2U	349 W	1,191 BTU/h	On request

ISO 9001 · ISO 14001 · ISO 27001

CONFIGURE & QUOTE ONLINE

serverinvest.com/product/asg-2015s-e1cr24l

01 Product overview

The Supermicro ASG-2015S-E1CR24L is a 2U Storage Server built on AMD EPYC 9005 with up to 4.5 TB of memory in 12 DIMM slots.

2U front/top-loading storage server with 24 hot-swap 3.5" SAS/SATA bays and PCIe 5.0.

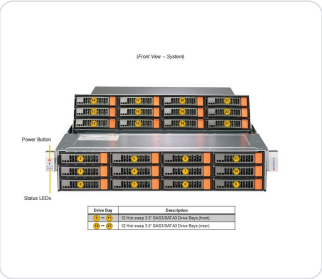
ServerInvest configures every Gold Series ASG-2015S-E1CR24L to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

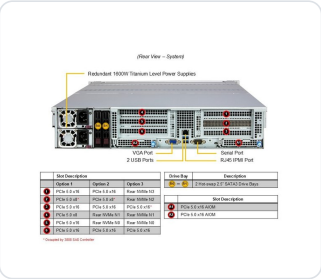
HIGHLIGHTS

- AMD EPYC 9005
- Up to 4.5 TB memory · 12 DIMM slots
- Total 26 bays 12 front hot-swap 3.5" SAS/SATA drive bays
- Power: 2x 1600W
- Networking: Via AIOM

KEY SPECIFICATIONS

Form factor	2U
Processor	AMD EPYC 9005
Socket	SP5
Memory	12 DIMM slots, up to 4.5 TB
Memory type	DDR5-6400 ECC RDIMM
Drive bays	132 (132 NVMe)
Power supply	2× 1600 W
Typical power draw	450 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 2U Storage Server ASG-2015S-E1CR24L**	1
Processor	AMD EPYC 9135 - 16 Cores, 3.65/4.30GHz, 64MB Cache (200 Watt)	1
Memory	16GB 6400MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

Price on request — contact us for a tailored quotation

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	22%

Typical 231 W · max 349 W · single PSU rating 1600 W

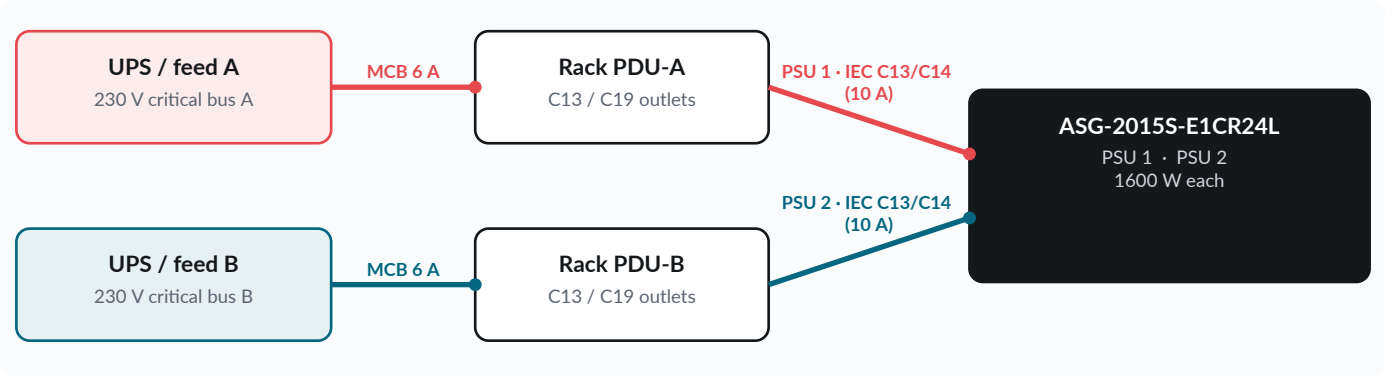
Annual IT energy (24/7)	1,656 kWh
Annual facility energy (PUE 1.5)	2,484 kWh
Annual energy cost	€331 IT · €497 incl. cooling (at 0.20 €/kWh)
CO_2 emissions / year	0.65 t (grid factor 0.26 kg/kWh)
Power supplies	2× 1600 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	50 W	77 W	**110 W**
CPU — AMD EPYC 9135 - 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 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 84C/168T; Up to 384MB Cache
Note	Supports 200W - 290W TDP CPUs

SYSTEM MEMORY

Memory	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC 9004 Series Processor) Max Memory (1DPC): Up to 4.5TB 6000MT/s ECC DDR5 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

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

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	Power-on mode for AC power recovery ACPI 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 Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

PC HEALTH MONITORING

CPU	4+1 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	Genoa: RHEL 9.0, Windows Server 2022, Windows Server 2025 Turin: Windows Server 2025 View all OS Compatibility and Certification Matrix

CHASSIS

Form Factor	2U Rackmount
Model	CSE-826S3TS-R1K62P1

DIMENSIONS AND WEIGHT

Height	3.5"
Width	17.2"
Depth	34"
Package	12" (H) x 29" (W) x 52" (D)
Weight	Gross Weight: 74.5 lbs (33.79 kg) Net Weight: 52 lbs (23.59 kg)
Available Color	Silver

FRONT PANEL

Buttons	Power On/Off
LED	Network activity Power status SSD activity System information (overheat/UID)

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 4 PCIe 5.0 x16 FHHL slots 2 PCIe 5.0 x8 FHHL slots 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) Option A 3 PCIe 5.0 x16 FHHL slots 1 PCIe 5.0 x8 FHHL slot 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) Option B 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 26 bays 12 front hot-swap 3.5" SAS/SATA drive bays 12 top-loading hot-swap 3.5" SAS/SATA drive bays 2 rear hot-swap 2.5" SATA drive bays Option A: Total 28 bays 12 front hot-swap 3.5" SAS/SATA drive bays 12 top-loading hot-swap 3.5" SAS/SATA drive bays 2 rear hot-swap 2.5" SATA drive bays 2 rear hot-swap 2.5" NVMe drive bays Option B: Total 30 bays 12 front hot-swap 3.5" SAS/SATA drive bays 12 top-loading hot-swap 3.5" SAS/SATA drive bays 4 rear hot-swap 2.5" NVMe drive bays 2 rear hot-swap 2.5" SATA drive bays View NVMe Options View Drive Options
M.2	2 M.2 NVMe slots (M-key 2280/22110) View M.2 Options

SYSTEM COOLING

Fans	Up to 4 Heavy Duty 8cm Fan(s)
Air Shroud	1 Air Shroud

POWER SUPPLY

	2x 1600W 2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies Dimension (WxHxL) 73.5 x 40 x 203 mm

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
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.

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/asg-2015s-e1cr24l/datasheet/manufacturer