

TECHNICAL DATASHEET

SUPERMICRO · STORAGE SERVERS

Supermicro 1U Storage Server SSG-136R-4MU32JBF

1U front-loading all-flash storage box with 32 hot-swap 2.5" NVMe bays and PCIe 4.0

SKU SSG-136R-4MU32JBF

1U

Supermicro



FORM FACTOR

1U

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

On request

REQUEST A QUOTATION ONLINE

serverinvest.com/product/ssg-136r-4mu32jbf



01 Product overview

The Supermicro SSG-136R-4MU32JBF is a 1U Storage Server built on a server-class processor.

1U front-loading all-flash storage box with 32 hot-swap 2.5" NVMe bays and PCIe 4.0.

ServerInvest configures every SSG-136R-4MU32JBF 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.

KEY SPECIFICATIONS

Form factor	1U
Drive bays	32 (32 NVMe)
Power supply	2× 1000 W
Typical power draw	450 W
Networking	2 RJ45 1GbE with Realtek
Dimensions (W×H×D)	437 × 44 mm

HIGHLIGHTS

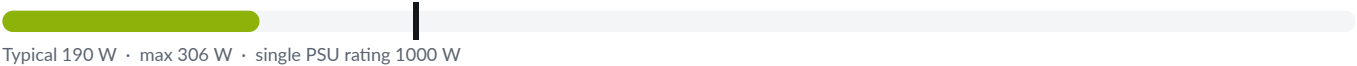
- Total 32 bays 32 front hot-swap 2.5" NVMe drive bays
- Power: 2x 1000W
- Networking: 2 RJ45 1GbE with Realtek



02 Power & thermal

Calculated for the base configuration

IDLE 73 W	TYPICAL 190 W	MAXIMUM 306 W	HEAT (MAX) 1,044 BTU/h	COOLING 0.3 kW	PSU LOAD 31%
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Typical 190 W · max 306 W · single PSU rating 1000 W

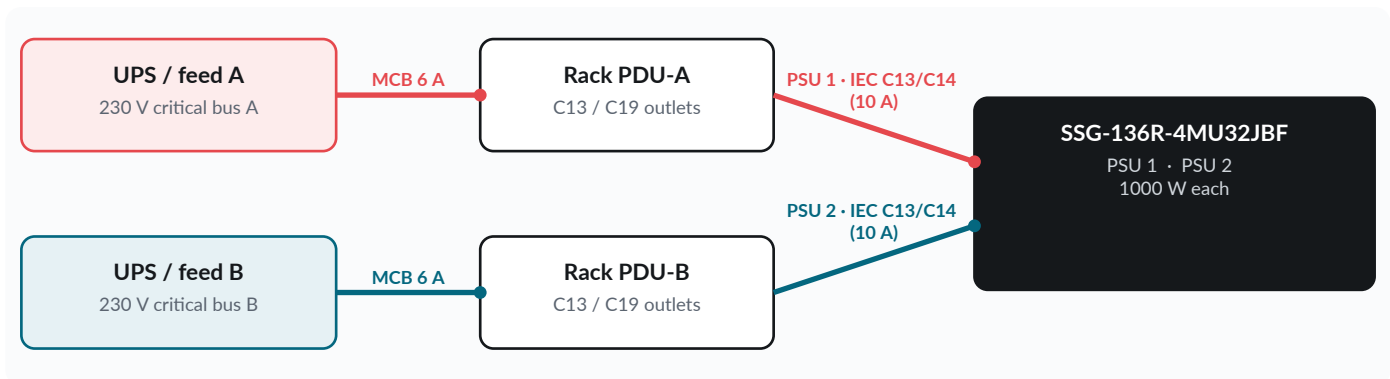
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	2× 1000 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
CPU (base configuration)	25 W	110 W	185 W
2× Memory (base configuration)	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.

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: 1.4 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: 306 W = 1,044 BTU/h (0.3 kW).

04 Full specifications

PCIE SWITCH CONTROL BOARD

Super BPN-NVME4-136PL-J

ON-BOARD DEVICES

Network Connectivity 2 RJ45 1GbE with Realtek
View AOC Options

INPUT / OUTPUT

LAN 2 RJ45 1 GbE Dedicated BMC LAN 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!

CHASSIS

Form Factor 1U Rackmount

Model CSE-136TS-R000JNP-U2

DIMENSIONS AND WEIGHT

Height 1.71" (43.6 mm)

Width 17.26" (438.4 mm)

Depth 31.95" (811.7 mm)

Package	8.375" (H) x 24" (W) x 48.5" (D)
Weight	Gross Weight: 65 lbs (29.5 kg) Net Weight: 49 lbs (22.2 kg)
Available Color	Silver

FRONT PANEL

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

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 2 PCIe 4.0 x16 FHHL slots View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 32 bays 32 front hot-swap 2.5" NVMe drive bays View NVMe Options
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SYSTEM COOLING

Fans	Up to 8 Heavy Duty 4cm Fan(s)
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POWER SUPPLY

	2x 1000W 2x 1000W Redundant Titanium Level (96%) power supplies Dimension (WxHxL) 73.5 x 40 x 185 mm
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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-operating Relative Humidity: 5% to 95% ()

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/ssg-136r-4mu32jbf/datasheet/manufacturer

