

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SSG-136R-NEL32JBF

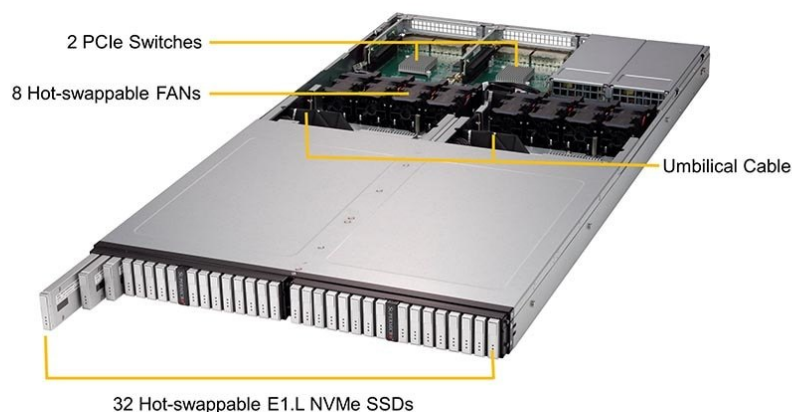
SKU SSG-136R-NEL32JBF

1U

Supermicro

SuperStorage SSG-136R-NEL32JBF

(Angled View – System)



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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-nel32jbf


01 Product overview

The Supermicro SSG-136R-NEL32JBF is a server built on a server-class processor.

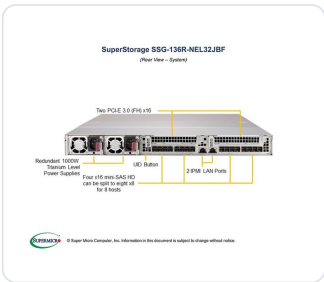
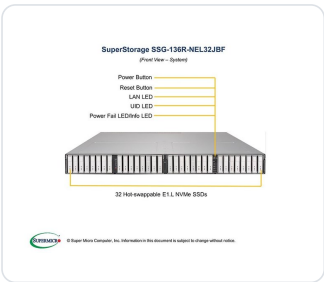
ServerInvest configures every SSG-136R-NEL32JBF to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

KEY SPECIFICATIONS

Form factor	1U
Power supply	1× 800 W
Typical power draw	450 W
Dimensions (W×H×D)	437 × 44 mm

HIGHLIGHTS

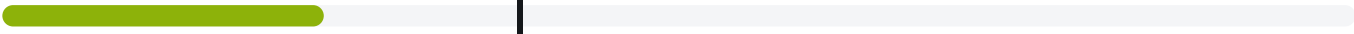
- 32x 9.5mm EDSFF Long Drive slots
- Power: 800W: 100 – 127Vac



02 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
73 W	190 W	306 W	1,044 BTU/h	0.3 kW	38%



Typical 190 W · max 306 W · single PSU rating 800 W

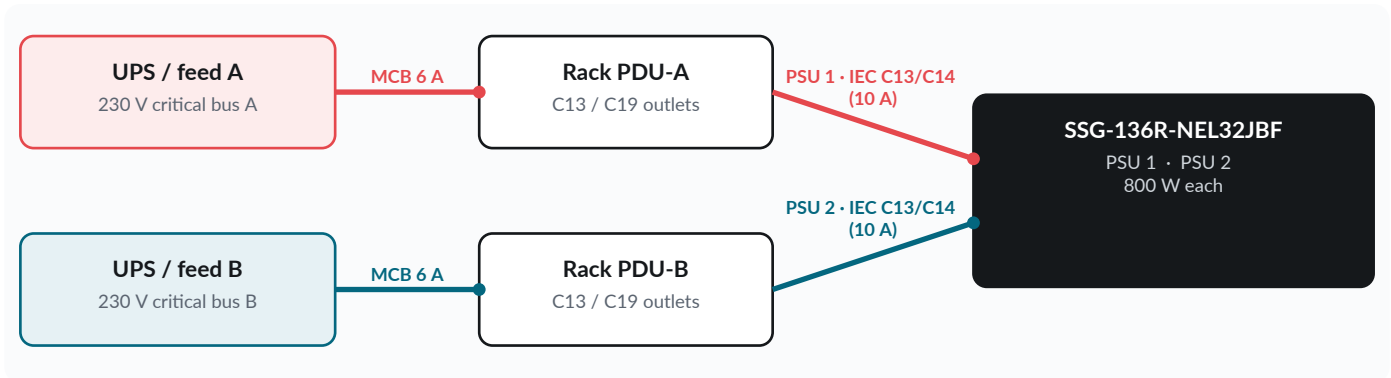
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	1× 800 W

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

SYSTEM OVERVIEW

Form Factor and Storage	1U Form factor 32x 9.5mm EDSFF Long Drive slots
Switch Architecture	JBOF Switch
Networking Port	2 RJ45 Dedicated IPMI LAN ports
Management Interface	Support for IPMI v.2.0

FRONT PANEL

Buttons	Power On/Off button Reset button UID button
LEDs	Power LED System Status LED SSD Status LED Drive activity LEDs Network activity LEDs

OPERATING ENVIRONMENT / COMPLIANCE

RoHS	RoHS Compliant
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)

CHASSIS

Form Factor	1U Rackmount
Model	CSE-136TS-R1K04JP-E2

DIMENSIONS AND WEIGHT

Width	17.26" (438.4mm)
Height	1.71" (43.6mm)
Depth	31.95" (811.7mm)
Weight	Net Weight: 49 lbs (22.2kg) Gross Weight: 65 lbs (29.5kg)

EXPANSION SLOTS / PORTS

PCI-Express	2 PCI-E 3.0 x16 slots 4 PCI-E 3.0 x16 IO ports
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DRIVE BAYS

Hot-swap	32x 9.5mm EDSFF Long Drive slots
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SYSTEM COOLING

Fans	8x 40mm cooling fans
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POWER SUPPLY

Total Output Power	800W: 100 – 127Vac 1000W: 200 – 240Vac
Dimension (W x H x L)	73.5 x 40 x 185 mm
Input	100-127Vac / 9.8 - 7A / 50-60Hz 200-240Vac / 7 - 5A / 50-60Hz
+12V	Max: 66.7A / Min: 0A (100-127Vac) Max: 83A / Min: 0A (200-240Vac)
12Vsb	Max: 2.1A / Min: 0A
Output Type	25 Pairs Gold Finger Connector
Certification	Titanium Level

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

