

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SYS-E200-8B

SKU SYS-E200-8B

Compact

Supermicro



FORM FACTOR

Compact

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

On request



REQUEST A QUOTATION ONLINE
serverinvest.com/product/sys-e200-8b



01 Product overview

The Supermicro SYS-E200-8B is a server built on Socket FCBGA1170 Intel Celeron Processor J1900 2M Cache with up to 8 GB of memory.

ServerInvest configures every SYS-E200-8B 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

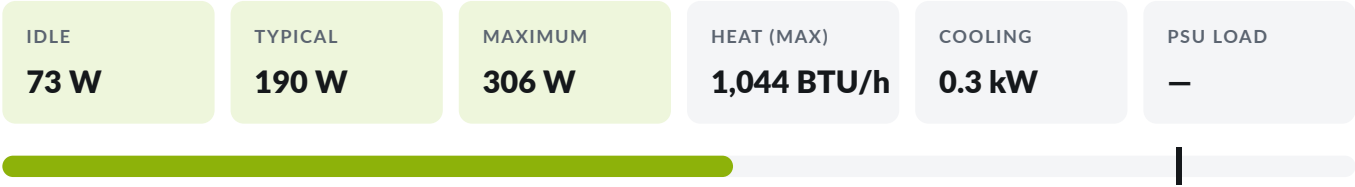
- Socket FCBGA1170 Intel Celeron Processor J1900 2M Cache
- Up to 8 GB memory
- 1x 2.5" HDD tray (HDD thickness can't exceed 9.5mm)
- Networking: Dual Intel I210-AT Gigabit Ethernet LAN ports

KEY SPECIFICATIONS

Form factor	Compact
Processor	Socket FCBGA1170 Intel Celeron Processor J1900 2M Cache
Memory	up to 8 GB
Typical power draw	450 W
Networking	Dual Intel I210-AT Gigabit Ethernet LAN ports

02 Power & thermal

Calculated for the base configuration



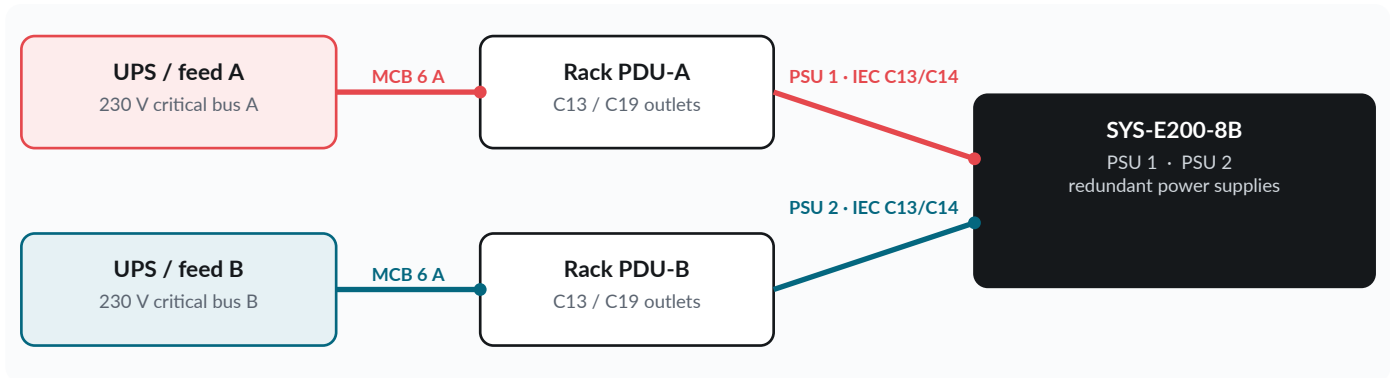
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	Redundant hot-swap PSUs — rating depends on the final configuration

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 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

PROCESSOR/CACHE

CPU	Socket FCBGA1170 Intel Celeron Processor J1900 2M Cache, up to 2.42 GHz, 10W (formerly Bay Trail)
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SYSTEM MEMORY

Memory Capacity	2x 204-pin SO-DIMM slot Supports up to 8GB non-ECC DDR3 1333MHz memory (Dual Channel) Some 1600MHz memory can be used, but memory capacity will operate at 1333MHz
Memory Type	1333/1066MHz DDR3 SO-DIMM, 204-pin gold-plated DIMMs
DIMM Sizes	4GB, 2GB
Memory Voltage	1.35 V

ON-BOARD DEVICES

Chipset	Intel J1900 System on Chip
SATA	SATA 2.0 (3Gbps) from Intel SoC SATA 3.0 (6Gbps) from Marvell 88SE9230 with HW RAID 0, 1, 10 (Windows only)
Network Controllers	Dual Intel I210-AT Gigabit Ethernet LAN ports
Graphics	Intel HD Graphics
USB 3.0	Intel SoC
COM Ports	Nuvoton NCT5104D

INPUT / OUTPUT

Serial ATA	4x SATA3 (6Gbps) ports 2x SATA2 (3Gbps) ports
LAN	2x RJ45 Gigabit Ethernet LAN ports

USB	1x USB 3.0 port 1x USB 2.0 port
Display	1x Display Port, 1x HDMI, 1x VGA, 2x Independent Displays
DOM	DOM (Disk on Module) power connector support
Others	TPM 1.2 header

CHASSIS

Form Factor	Mini-ITX
Model	CSE-101S

DIMENSIONS

Width	7.68" (195mm) / 15" (381mm) - pkg.
Height	1.7" (43mm) / 10.87" (276mm) - pkg.
Depth	7.68" (195mm) / 5.59" (142mm) - pkg.
Weight	Gross Weight: 5.75 lbs (2.6 kg) Net Weight: 3.86 lbs (1.75 kg)
Available Colors	Black

FRONT PANEL

Buttons	Power On/Off button
LEDs	Power LED (Hard drive activity LED)

EXPANSION SLOTS

Mini-PCI-E	1x Mini-PCIe slot
mSATA (2.0)	1x mSATA slot (SATA 2.0)

DRIVE BAYS

Internal	1x 2.5" HDD tray (HDD thickness can't exceed 9.5mm)
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SYSTEM COOLING

Fans	1x 4cm cooling fan
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SYSTEM BIOS

BIOS Type	64Mb SPI Flash EEPROM with AMI UEFI BIOS
BIOS Features	Plug and Play (PnP) ACPI 5.0 UEFI 2.3.1 SMBIOS 2.7 DMI 2.3 USB Keyboard support RTC (Real time Clock) Wakeup 3TB HDD Support

MANAGEMENT

Software	SuperDoctor 5 Watch Dog
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Power Configurations	ACPI / ACPM Power Management Main Switch Override Mechanism Keyboard Wakeup from Soft-Off Power-on mode for AC power recovery
Fan	Fans with tachometer status monitoring Status monitor for speed control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors

OPERATING ENVIRONMENT / COMPLIANCE

RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 0°C to 40°C (32°F to 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 10% to 85% (non-condensing) Non-operating Relative Humidity: 10% to 95% (non-condensing)

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

