

TECHNICAL DATASHEET

SUPERMICRO · TOWER SERVERS & WORKSTATIONS

Supermicro Server SYS-5039C-I

SKU SYS-5039C-I

Tower

LGA1700

Supermicro

SuperServer SYS-5039C-I*(Angled View – System)*

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FORM FACTOR

Tower

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

On request**REQUEST A QUOTATION ONLINE**serverinvest.com/product/sys-5039c-i

01 Product overview

The Supermicro SYS-5039C-I is a server built on Intel Xeon E with up to 128 GB of memory in 4 DIMM slots.

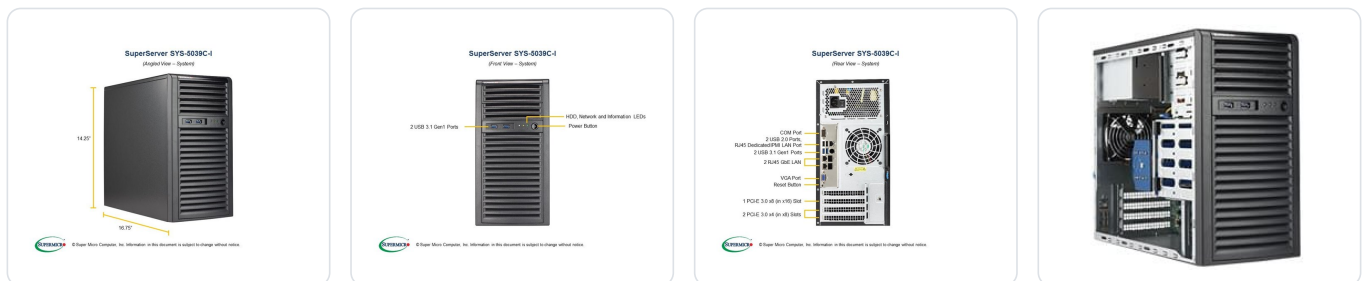
ServerInvest configures every SYS-5039C-I to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Xeon E
- Up to 128 GB memory · 4 DIMM slots
- 4 Fixed 3.5" drive bays
- Power: 400W with Input 100 - 240Vac
- Networking: Dual GbE LAN with Intel I210-AT

KEY SPECIFICATIONS

Form factor	Tower
Processor	Intel Xeon E
Socket	LGA1700
Memory	4 DIMM slots, up to 128 GB
Drive bays	4
Power supply	1× 400 W
Typical power draw	450 W
Networking	Dual GbE LAN with Intel I210-AT



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	77%

Typical 190 W · max 306 W · single PSU rating 400 W

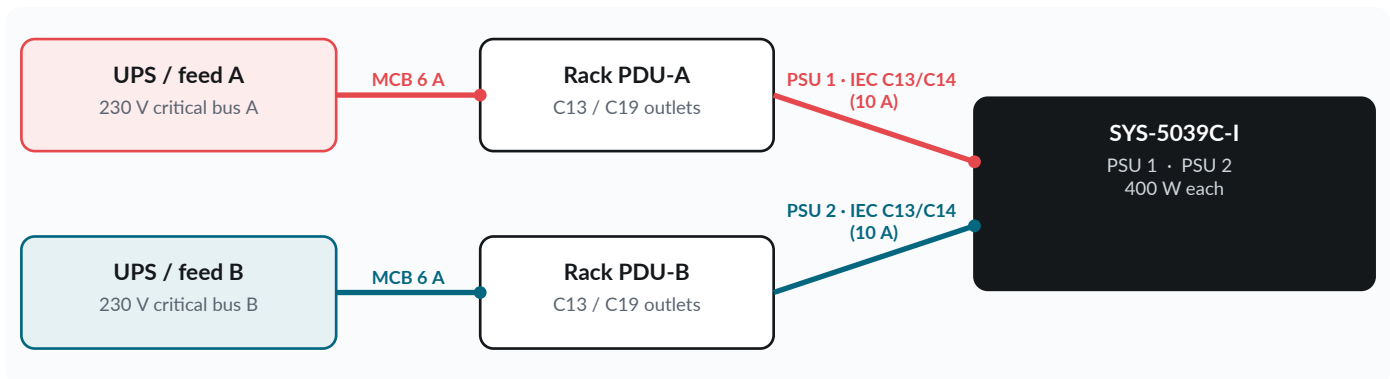
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	1× 400 W

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

PROCESSOR

CPU	Single Socket LGA-1151 (Socket H4) supported, CPU TDP support Up to 95W TDP 8th/9th Generation Intel Core [®] i3/Pentium/Celeron Processor, Intel Xeon E-2100 Processor, Intel Xeon E-2200 Processor.
Cores/Cache	6 cores, 12 threads
Note	BIOS version 1.0b or above is required to support Intel Xeon E-2200 and 9th Generation Intel Core [®] i3/Pentium/Celeron Processors

SYSTEM MEMORY

Memory Capacity	4 DIMM slots Up to 128GB ECC UDIMM Up to DDR4-2666MHz
Memory Type	2666/2400/2133MHz ECC DDR4 SDRAM
DIMM Sizes	32GB, 16GB, 8GB

ON-BOARD DEVICES

Chipset	Intel C242 chipset
SATA	SATA3 (6Gbps) via Intel C242 controller RAID 0, 1, 5, 10 support
Network Controllers	Dual GbE LAN with Intel I210-AT
IPMI	ASPEED AST2500

INPUT / OUTPUT

SATA	6 SATA3 (6Gbps) ports
LAN	2 RJ45 Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port

USB	2 USB 3.2 Gen1 (front) 2 USB 3.2 Gen1 (rear) 2 USB 2.0 (rear)
Video	1 VGA port
Serial Port / Header	1 COM port
TPM	1 TPM 2.0 Header

EXPANSION SLOTS

PCI-Express	1 PCI-E 3.0 x8 (in x16) slot 2 PCI-E 3.0 x4 (in x8) slots
M.2	M.2 Interface: 1 PCI-E 3.0 x4 M.2 Form Factor: 22110/2280 M.2 Key: M-Key

SYSTEM BIOS

BIOS Type	UEFI 256Mb
BIOS Features	ACPI 6.0 SMBIOS 2.7 Plug and Play (PnP) RTC (Real Time Clock) Wakeup PCI F/W 3.0

MANAGEMENT

Software	SuperDoctor 5 Watch Dog Non-maskable Interrupt (NMI)
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CHASSIS

Form Factor	Mid-Tower
Model	CSE-731i-403B

DIMENSIONS AND WEIGHT

Height	14.25" (362mm)
Width	7.25" (184mm)
Depth	16.75" (425mm)
Gross Weight	35.5 lbs (16.1 kg)
Available Colors	Black

FRONT PANEL

Buttons	Power On/Off button
LEDs	Power LED Hard drive activity LED Network activity LED System Information LED
Ports	2 USB 3.1 Gen 1 ports

DRIVE BAYS

Internal	4 Fixed 3.5" drive bays
Peripheral	2 External 5.25" Peripheral bays

SYSTEM COOLING

Fans	1x 9cm (rear) PWM fan w/ tool-less design Optional 1x 8cm (front) cooling fan
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POWER SUPPLY

Total Output Power and Input	400W with Input 100 - 240Vac
AC Input Frequency	50-60Hz
Dimensions (L x W x H)	140 x 150 x 86 mm
-12V	Max: 0.3A
+12V	18A
+5V	Max: 22A
+3.3V	Max: 24A
+5V standby	Max: 3A
Certification	Gold Certified

PC HEALTH MONITORING

CPU	Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages. 4 CPU switch phase voltage regulator
FAN	Low noise fan speed control
Temperature	Monitoring for CPU and chassis environment Thermal Control for five 4-pin fan connectors Platform Environmental Control Interface (PECI)

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 60°C (-40°F to 140°F) Operating Relative Humidity: 20% to 95% (non-condensing) Non-operating Relative Humidity: 5% 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.
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