

TECHNICAL DATASHEET

SUPERMICRO · TOWER SERVERS & WORKSTATIONS

Supermicro Server SYS-5039A-I

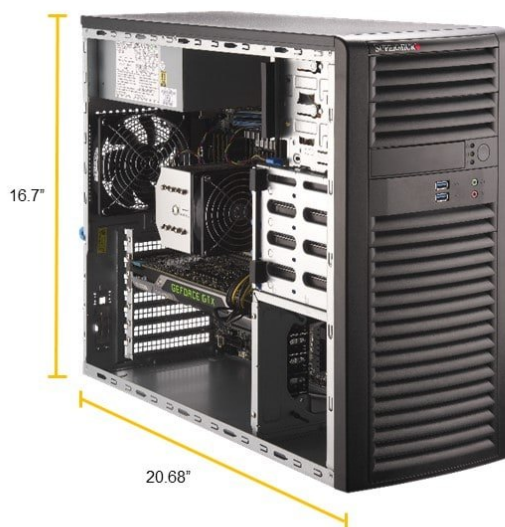
SKU SYS-5039A-I

Tower

Supermicro

SuperServer SYS-5039A-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



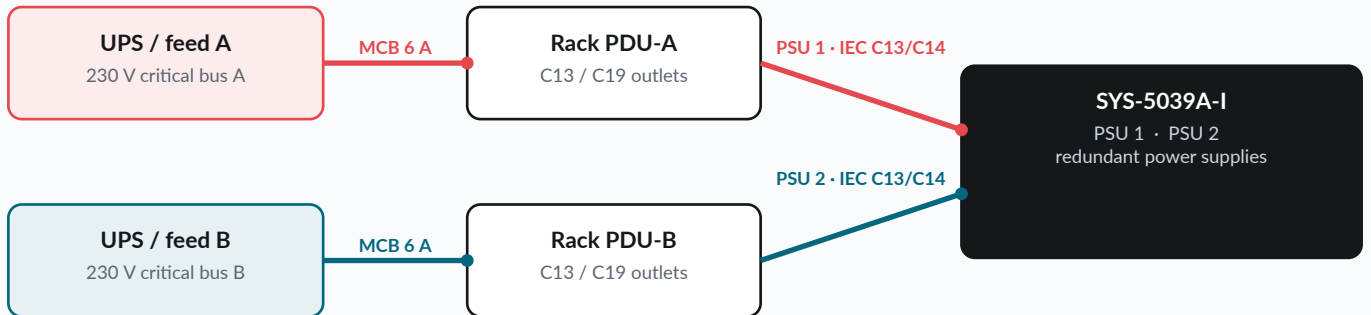
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03 Power connection diagram

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

CPU	Intel Xeon W-2200 processor, Intel Xeon W-2100 processor Single Socket R4 (LGA 2066), CPU TDP support up to 165W
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SYSTEM MEMORY

Memory Capacity	Up to 512GB Registered ECC RDIMM, DDR4-2666MHz; Up to 1TB Registered ECC LRDIMM, DDR4-2666MHz, in 8 DIMM slots(DDR4-2933MHz: RDIMM Max. Memory Capacity 256GB Registered ECC, LRDIMM Max. Memory Capacity 512GB Registered ECC) 8 DIMM slots Up to 512GB Registered ECC LRDIMM Up to 256GB Registered ECC RDIMM Up to DDR4-2666MHz --->
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Memory Type	2666/2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit 288-pin RDIMM/LRDIMM
DIMM Sizes	64GB, 32GB, 16GB, 8GB, 4GB

ON-BOARD DEVICES

Chipset	Intel C422 chipset
SATA	SATA3 (6Gbps) via Intel C422 controller RAID 0, 1, 5, 10 support
Network Controllers	Single LAN with Intel PHY I219LM LAN controller Single LAN with Aquantia 5G LAN chip AQC108
Audio	ALC 1220 7.1 HD Audio

INPUT / OUTPUT

SATA	6 SATA3 (6Gbps) ports from Intel C422
LAN	2 RJ45 Ethernet LAN ports

USB	6 USB 3.0 ports (4 rear + 2 headers) 6 USB 2.0 ports (2 rear + 4 headers) 2 USB 3.1 (2 Type A)
Audio	7.1 HD Jacks
Serial Port / Header	1 COM port (header)
TPM	1 TPM 1.2 20-pin Header

EXPANSION SLOTS

PCI-Express	3 PCI-E 3.0 x16 slots (8/16/16, 48 lanes) 1 PCI-E 3.0 x4 slot
M.2	M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 22110/2280 M.2 Key: M-Key (RAID 0,1 support) U.2 Interface: 2 PCI-E 3.0 x4

SYSTEM BIOS

BIOS Type	UEFI 256Mb
BIOS Features	ACPI 3.0 or later SMBIOS 2.7 or later BIOS rescue hot-key SPI dual/quad speed support RTC wakeup

CHASSIS

Form Factor	Mid-Tower
Model	CSE-732D3-903B

DIMENSIONS AND WEIGHT

Height	16.7" (424mm)
Width	7.6" (193mm)
Depth	20.68" (525.3mm)
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 front USB 3.0 Ports 1 Line-out, 1 Mic-in

DRIVE BAYS

Internal	4 fixed 3.5" drive bays Enterprise SATA HDD only recommended
Peripheral	2 optional 5.25" Peripheral drive bays 1 optional card reader module

SYSTEM COOLING

Fans	1x 12cm rear exhaust fan Optional 1x 12cm front cooling fan
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POWER SUPPLY

AC Voltage	100-240 V, 50-60 Hz, 10-6 Amp
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+5V Standby	3 Amp
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+12V1	25 Amp
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+12V2	25 Amp
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+12V3	25 Amp
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+12V4	25 Amp
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+5V	25 Amp
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+3.3V	25 Amp
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-12V	0.5 Amp
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Certification	Gold Level
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Note:	• Max. continuous combined load on +3.3V and +5V output shall not exceed 155W. • Max. continuous combined load on +12V1, +12V2, +12V3 and +12V4 output shall not exceed 860W.
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PC HEALTH MONITORING

CPU	Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 6-Phase-switching voltage regulator
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FAN	Low noise fan speed control
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Temperature	Monitoring for CPU and chassis environment Thermal Control for 8x fan connectors PECI
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OPERATING ENVIRONMENT / COMPLIANCE

RoHS	RoHS Compliant
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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)
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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.



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