

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SYS-1018R-WC0R

SKU SYS-1018R-WC0R

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/sys-1018r-wc0r

01 Product overview

The Supermicro SYS-1018R-WCOR is a server built on Intel Xeon processor E5-2600 v4 † / v3 with up to 1 TB of memory in 4 DIMM slots.

ServerInvest configures every SYS-1018R-WCOR 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 processor E5-2600 v4 † / v3
- Up to 1 TB memory · 4 DIMM slots
- 8x 2.5" Hot-swap SAS3/SATA3 HDD bays + 2x 2.5" Hot-swap SATA3 (total of 10)
- Power: 700W/750W
- Networking: Intel i350-AM2 Dual Port Gigabit Ethernet

KEY SPECIFICATIONS

Form factor	1U
Processor	Intel Xeon processor E5-2600 v4 † / v3
Memory	4 DIMM slots, up to 1 TB
Drive bays	8
Power supply	1× 700 W
Typical power draw	450 W
Networking	Intel i350-AM2 Dual Port Gigabit Ethernet
Dimensions (W×H×D)	437 × 44 mm

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	44%

Typical 190 W · max 306 W · single PSU rating 700 W

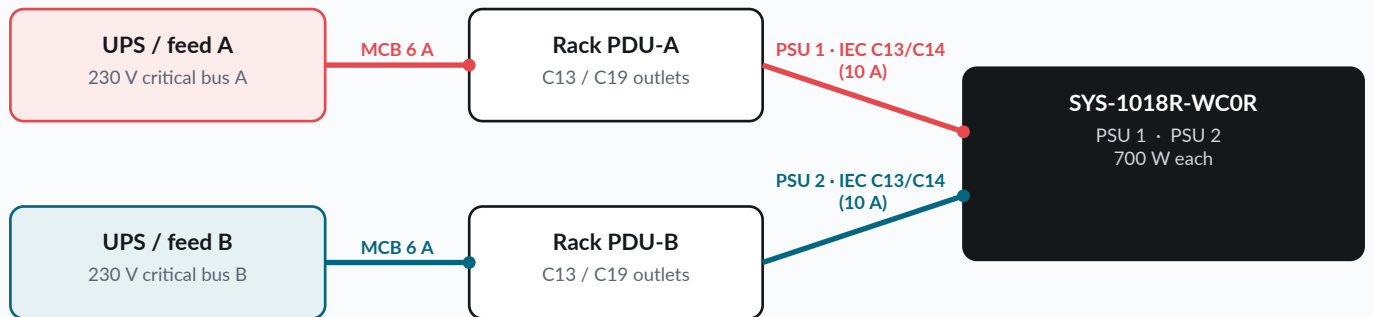
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	1× 700 W

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	Intel Xeon processor E5-2600 v4 † / v3, E5-1600 v4 † / v3 family (up to 145W TDP **) Single Socket R3 (LGA 2011)
Core / Cache	Up to 22 Cores † / Up to 55MB † Cache
Note	† BIOS version 2.0 or above is required
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support

SYSTEM MEMORY

Memory Capacity	8x 288-pin DDR4 DIMM slots Up to 1TB ECC 3DS LRDIMM Up to 512GB ECC LRDIMM Up to 256GB ECC RDIMM
Memory Type	2400 † / 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs
DIMM Sizes	3DS LRDIMM: 128GB LRDIMM: 64GB, 32GB RDIMM: 32GB, 16GB, 8GB, 4GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

ON-BOARD DEVICES

Chipset	Intel C612 chipset
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SATA	SATA3 (6Gbps) via C612 controller RAID 0, 1, 5, 10 support
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2400 BMC with 10/100/1000Mbps
Network Controllers	Intel i350-AM2 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
VGA	ASPEED AST2400 BMC

INPUT / OUTPUT

SATA	10x SATA3 (6Gbps) ports SATA DOM Power Connector
LAN	2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	2x USB 3.0 ports (rear) 2x USB 2.0 ports (rear) 2x USB 3.0 ports (front)
VGA	1x VGA port
Serial Port / Header	2x COM ports (1 rear, 1 header)
DOM	2x Super DOM (Disk on Module) ports

PC HEALTH MONITORING

Voltage	Monitors for CPU Cores, +12V, +3.3V, +5V, +5V Standby, VBAT, HT, Memory, Chipset Voltages. 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	6x 4-pin fan headers 6x fans w/ tachometer status monitoring Status monitor for speed control Status monitor for on/off control Support 3-pin fans (w/o speed control) Low noise fan speed control Pulse Width Modulated (PWM) fan connectors
Temperature	Monitoring for CPU & chassis environment CPU thermal trip support FC temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	System Information LED +5V Standby alert LED
Other Features	Chassis intrusion detection Chassis intrusion header

CHASSIS

Form Factor	1U Rackmount
Model	CSE-116AC-R706WB

DIMENSIONS AND WEIGHT

Height	1.7" (43mm)
Width	17.2" (437mm)

Depth	23.5" (597mm)
Package	8" (H) x 24" (W) x 32" (D)
Weight	Gross Weight: 40 lbs (18.1 kg) Net Weight: 25 lbs (11.3 kg)
Available Colors	Black

FRONT PANEL

Buttons	Power On/Off button System Reset button
LEDs	Power LED Hard drive activity LED 2x Network activity LEDs System Information LED

EXPANSION SLOTS

PCI-Express	2x PCI-E 3.0 x16 Full-height Full-length slots 1x PCI-E 3.0 x8 (in x16) Half-height Half-length slot
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DRIVE BAYS

Hot-swap	8x 2.5" Hot-swap SAS3/SATA3 HDD bays + 2x 2.5" Hot-swap SATA3 (total of 10)
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SYSTEM COOLING

Fans	4x 40x56mm 4-pin PWM Cooling Fans 1x Additional fan to cool add-on cards
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AC/DC240V INPUT REDUNDANT POWER SUPPLY

Total Output Power	700W/750W
Dimension (W x H x L)	54.5 x 40.25 x 320 mm
Input	100 - 140Vac / 8 - 6A / 50-60Hz 200 - 240Vac / 4.5 - 3.8A / 50-60Hz 200 - 240Vdc / 4.5 - 3.8A (CCC Only)
+12V	Max: 58A / Min: 0.5A (100 - 140Vac) Max: 62A / Min: 0.5A (200 - 240Vac) Max: 62A / Min: 0.5A (200 - 240Vdc) (CB/CCC Only)
+5V sb	Max: 3A / Min: 0A
Output Type	Gold Finger Connector Mating with Molex 45984-4343
Certification	Platinum Certified [Test Report]

SYSTEM BIOS

BIOS Type	64Mb SPI Flash EEPROM with AMI BIOS
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BIOS Features

Plug and Play (PnP)
 APM 1.2
 DMI 2.3
 PCI 2.3
 ACPI 1.0 / 2.0 / 3.0 / 4.0
 USB Keyboard support
 Hardware BIOS Virus protection
 SMBIOS 2.7.1
 UEFI 2.3.1
 RTC (Real Time Clock) Wakeup

MANAGEMENT

Software

IPMI (Intelligent Platform Management Interface) v2.0 with KVM support
 SuperDoctor III
 Watch Dog
 NMI

Power Configurations

ACPI / ACPM Power Management
 Main Switch Override Mechanism
 Power-on mode for AC power recovery
 Internal/External modem ring-on

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)

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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