TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SYS-1018GR-T

SKU SYS-1018GR-T | 1U | Supermicro

FORM FACTOR	MAX POWER (BASE)	HEAT OUTPUT	PRICE
1U	306 W	1,044 BTU/h	On request

ISO 9001 · ISO 14001 · ISO 27001 · cisco · tp-link · Omada by tp-link

REQUEST A QUOTATION ONLINE
serverinvest.com/product/sys-1018gr-t

01 Product overview

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

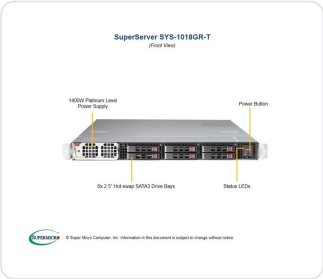
ServerInvest configures every SYS-1018GR-T to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

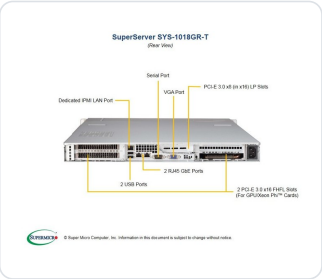
HIGHLIGHTS

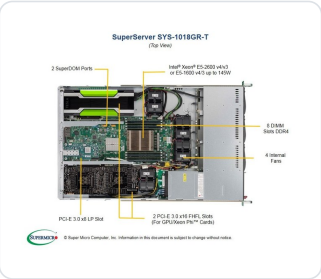
- Intel Xeon processor E5-2600 v4 † / v3
- Up to 1 TB memory · 4 DIMM slots
- 6x 2.5" Hot-swap drive bays
- Power: 1200W: 100-140 V, 14.7-10.5A, 50-60 Hz
- Networking: Intel i350 Dual Port Gigabit Ethernet

KEY SPECIFICATIONS

Form factor	**1U**
Processor	**Intel Xeon processor E5-2600 v4 † / v3**
Memory	**4 DIMM slots, up to 1 TB**
Drive bays	**6**
Power supply	**1× 1200 W**
Typical power draw	**450 W**
Networking	**Intel i350 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**	**26%**

Typical 190 W · max 306 W · single PSU rating 1200 W

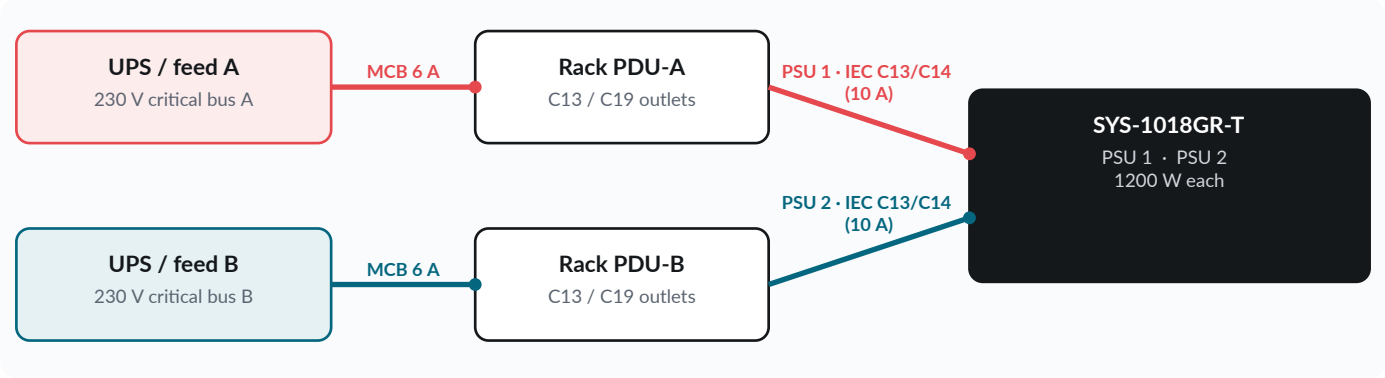
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO_2 emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	1× 1200 W

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 512GB 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: 64GB, 32GB, 16GB, 8GB, 4GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors

ON-BOARD DEVICES	
Chipset	Intel C612 chipset

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
Network Controllers	Intel i350 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Graphics	ASPEED AST2400 BMC

INPUT / OUTPUT

SATA	6x SATA3 (6Gbps) ports
LAN	2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	2x USB 3.0 ports (rear)
Video	1x VGA Connector
Serial Port	1x Serial header
DOM	2x DOM (Disk on Module) power connectors

SYSTEM BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
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

CHASSIS

Form Factor	1U Rackmount
Model	CSE-118GTS-1K43BP2

DIMENSIONS

Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	28.5" (724mm)
Weight	Net Weight: 28 lbs (12.70 kg) Gross Weight: 36 lbs (16.33 kg)
Available Color	Black

FRONT PANEL

Buttons	Power On/Off button System Reset button

LEDs	Power LED Hard drive activity LED 2x Network activity LEDs System Overheat LED / Fan fail LED / UID LED

EXPANSION SLOTS

PCI-Express	2x PCI-E 3.0 x16 slots (support GPU/Xeon Phi cards) 1x PCI-E 3.0 x8 slot for I.B. card UIO AOC Compatibility Matrix

DRIVE BAYS

Hot-swap	6x 2.5" Hot-swap drive bays

SYSTEM COOLING

Fans	8x counter-rotating fans with optimal fan speed control

POWER SUPPLY

AC Voltage	1200W: 100-140 V, 14.7-10.5A, 50-60 Hz 1400W: 180-240 V, 10.5-8.0A, 50-60 Hz
+5V standby	6 Amp
+12V	100 Amp/115 Vac 117 Amp/230 Vac
With Power Distributor	+5V: 14 Amp
Certification	Platinum Certified

PC HEALTH MONITORING

CPU	Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages. CPU Core 5-Phase-switching voltage regulator
FAN	Total of eight 4-pin PWM fans 8x fans with tachometer monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors PSU I 2 C temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	Power Fail / Overheat LED Suspend-state Indicator LED UID LED
Other Features	SDDC Support

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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