

TECHNICAL DATASHEET

SUPERMICRO • RACKMOUNT SERVERS

Supermicro Server SYS-7088B-TR4FT

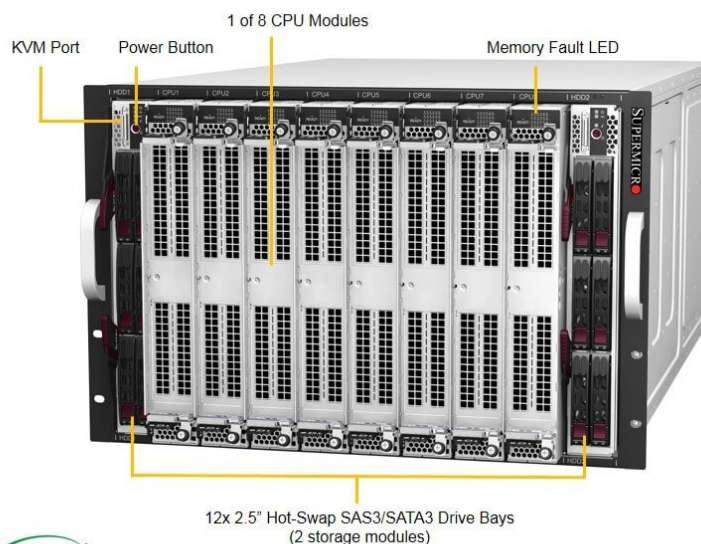
SKU SYS-7088B-TR4FT

7U

Supermicro

SuperServer SYS-7088B-TR4FT

(Angled View – System)



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FORM FACTOR

7U

MAX POWER (BASE)

493 W

HEAT OUTPUT

1,682 BTU/h

PRICE

On request



REQUEST A QUOTATION ONLINE

serverinvest.com/product/sys-7088b-tr4ft


01 Product overview

The Supermicro SYS-7088B-TR4FT is a server built on Intel Core with up to 24 TB of memory in 4 DIMM slots.

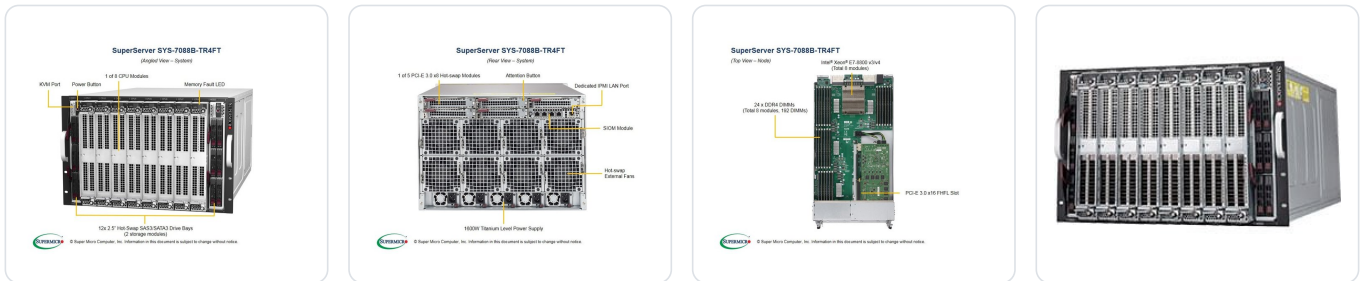
ServerInvest configures every SYS-7088B-TR4FT to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Core
- Up to 24 TB memory · 4 DIMM slots
- 12 Hot-swap 2.5" SAS3 drive bays (w/ RAID cards)
- Power: 1600W/1000W
- Networking: 4-port 10GBase-T Ethernet S10M (Intel X550 controller)

KEY SPECIFICATIONS

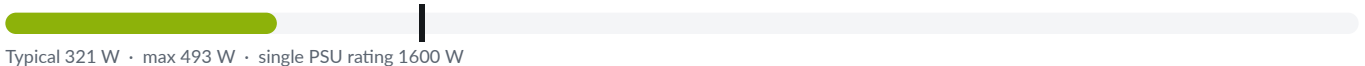
Form factor	7U
Processor	Intel Core
Memory	4 DIMM slots, up to 24 TB
Drive bays	32
Power supply	1× 1600 W
Typical power draw	450 W
Networking	4-port 10GBase-T Ethernet S10M (Intel X550 controller)
Dimensions (W×H×D)	437 × 311 mm



02 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
157 W	321 W	493 W	1,682 BTU/h	0.5 kW	31%



Typical 321 W · max 493 W · single PSU rating 1600 W

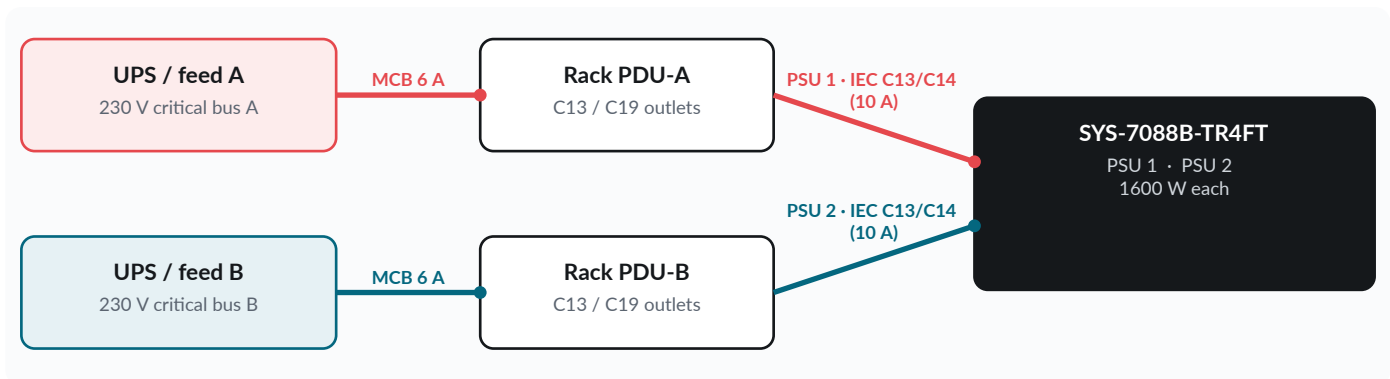
Annual IT energy (24/7)	2,381 kWh
Annual facility energy (PUE 1.5)	3,572 kWh
Annual energy cost	€476 IT · €714 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.93 t (grid factor 0.26 kg/kWh)
Power supplies	1× 1600 W

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	117 W	182 W	260 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: 2.3 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: 493 W = 1,682 BTU/h (0.5 kW).

04 Full specifications

PROCESSOR/CACHE

CPU	Intel Xeon processor E7-8800 v4/v3 family (up to 24 Cores and 165W TDP) Socket R1 (LGA 2011)
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Cache	Up to 60 MB
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System Bus	QPI up to 9.6 GT/s
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SYSTEM MEMORY

Memory Capacity	192x 288-pin DDR4 DIMM slots Supports up to 24TB DDR4 ECC 3DS LRDIMM in 192 DIMM slots
Memory Type	2400*/2133*/1866*/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin gold-plated DIMMs * Run up to 1600MHz depend on setting.
DIMM Sizes	128GB, 64GB, 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 C602J chipset
Storage	Intel C602J including 2 SATA3 (6Gbps, for SATA DOM) + 4 SATA2 (3Gbps, 2 for M.2, 2 for HDD) with RAID 0, 1, 5, 10
Network Controllers (via AOM)	4-port 10GBase-T Ethernet SIOM (Intel X550 controller)
IPMI (via AOM)	Support for Intelligent Platform Management Interface v2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED 2400

Graphics

ASPEED AST2400 BMC

INPUT / OUTPUT

Storage	2 SATA2 (HDD) ports 2 SATA2 (M.2) ports 2 SATA3 (SATADOM) ports
LAN	4 10GBase-T ports via SIOM 1 dedicated LAN port for IPMI
USB	2 USB 2.0 ports via KVM port
Serial Port / Header	1 Fast UART 16550 ports: 1 front via KVM port

SYSTEM BIOS

BIOS Type	16MB SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP) PCI 2.2 ACPI up to 3.0 USB Keyboard support

CHASSIS

Form Factor	7U Rackmountable Rackmount Kit: Comes with the system
Model	CSE-718TQC-R4800B

DIMENSIONS AND WEIGHT

Height	12.2" (310mm)
Width	17.63" (448mm)
Depth	28.87" (733mm)
Weight	Gross Weight: 208 lbs (93.35 kg)
Available Colors	Black

DRIVE BAYS

Hot-swap	12 Hot-swap 2.5" SAS3 drive bays (w/ RAID cards) 20x 2.5" or 6x 3.5" internal drive bays (w/ RAID cards)
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EXPANSION SLOTS

PCI-Express	15 PCI-E 3.0 FH slots total 8 PCIE 3.0 x16 + 7 PCIE 3.0 x8 (in x16) slots Up to 16 U.2 NVMe option available
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SYSTEM COOLING

Fans	8x 9cm Hot-Swap Counter-rotating Rear Fans
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POWER SUPPLY

Total Output Power	1600W/1000W
Dimension (W x H x L)	73.5 x 40 x 203 mm

Input	100-127Vac / 13 - 9A / 50-60Hz 200-240Vac / 10 - 8A / 50-60Hz
+12V	Max: 83.3A / Min: 0A (100-127Vac) Max: 133A / Min: 0A (200-240Vac)
12Vsb	Max: 2.1A / Min: 0A
Output Type	25 Pairs Gold Finger Connector
Certification	Titanium Level [Test Report]

PC HEALTH MONITORING

CPU	Monitors for CPU Cores, +1.2V, 1.5V, +3.3V, +12V, (+3V, 1.0V, 1.2V, 1.8V, 1.1V) Standby, VBAT, Memory, Chipset Voltages. 4-Phase-switching voltage regulator with auto-sense from 0.6V-1.35V
FAN	4-pin fan headers with tachometer status monitoring Low noise fan speed control mode
Temperature	Monitoring for CPU and system environment Thermal Control for 9x fan connectors
Other Features	Chassis intrusion detection

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.
office@serverinvest.com

