

TECHNICAL DATASHEET

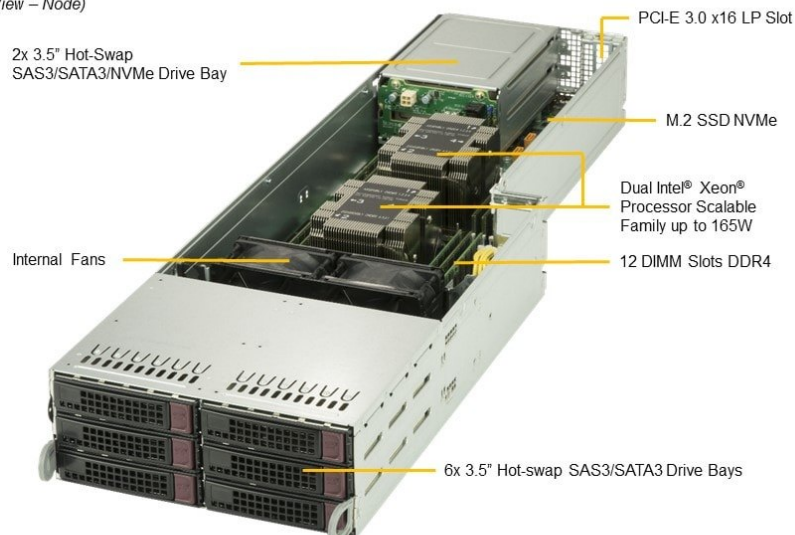
SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SYS-F629P3-RTBN

SKU SYS-F629P3-RTBN

4U

Supermicro

FatTwin™ SYS-F629P3-RTBN*(Angled View – Node)*

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FORM FACTOR

4U

MAX POWER (BASE)

602 W

HEAT OUTPUT

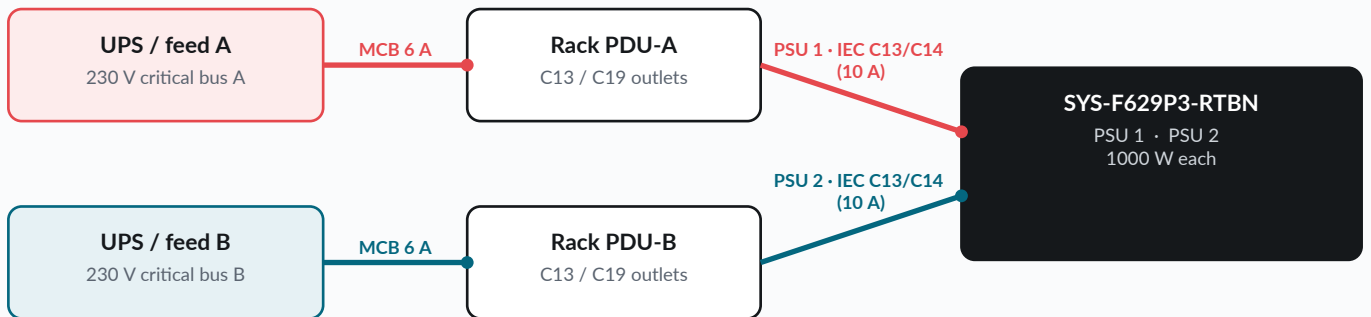
2,054 BTU/h

PRICE

On request**REQUEST A QUOTATION ONLINE**serverinvest.com/product/sys-f629p3-rtbn

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: 2.8 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: 602 W = 2,054 BTU/h (0.6 kW).

04 Full specifications

PROCESSOR (PER NODE)

CPU	Dual Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Processors and Intel Xeon Scalable Processors ‡, Dual UPI up to 10.4GT/s Support CPU TDP 70-165W with IVR
Cores	Up to 28 Cores
Note	‡ BIOS version 3.2 or above is required to support 2nd Gen Intel Xeon Scalable processors (codenamed Cascade Lake-R). Extended thermal solutions may be required to support CPUs higher than 165W TDP, please contact Supermicro Technical Support for additional information.

SYSTEM MEMORY (PER NODE)

Memory Capacity	12 DIMM slots Up to 3TB 3DS ECC DDR4-2933MHz † RDIMM/LRDIMM Supports Intel Optane DCPMM ††
Memory Type	2933 † /2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
Note	† 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro †† Cascade Lake only. Contact your Supermicro sales rep for more info.

ON-BOARD DEVICES

Chipset	Intel C621 chipset
SATA	SATA3 (6Gbps)
Network Controllers	Flexible networking via SIOM
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Graphics ASPEED AST2500 BMC

INPUT / OUTPUT (PER NODE)

NVMe	2 NVMe U.2 option
LAN	SIOM flexible Network card 1 RJ45 Dedicated IPMI LAN port
USB	2 USB 3.0 ports (rear)
VGA	1 VGA port

SYSTEM BIOS

BIOS Type 128Mb SPI Flash EEPROM with AMI BIOS

MANAGEMENT

Software Intel Node Manager
IPMI 2.0
KVM with dedicated LAN
SuperDoctor 5
Watch Dog

Power Configurations ACPI Power Management

PC HEALTH MONITORING

CPU Monitors for CPU Cores, Chipset Voltages, Memory.
4+1 Phase-switching voltage regulator

FAN Fans with tachometer monitoring
Status monitor for speed control
Pulse Width Modulated (PWM) fan connectors

Temperature Monitoring for CPU and chassis environment
Thermal Control for fan connectors

CHASSIS

Form Factor 4U Rackmount

Model CSE-F424AS2-R1K23BP

DIMENSIONS AND WEIGHT

Width 17.63" (448mm)

Height 6.96" (177mm)

Depth 29" (737mm)

Package 28.3" (W) x 15.0" (H) x 42.4" (D)

Weight Net Weight: 150 lbs (68.04 kg)
Gross Weight: 200 lbs (90.71 kg)

Available Colors Black

FRONT PANEL

Buttons Power On/Off button
UID button

LEDs	Power status LED Hard drive activity LED Network activity LEDs Information LED (UID, Fan failure, Overheat)
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EXPANSION SLOTS (PER NODE)

PCI-Express	1 PCI-E 3.0 x16 (Low-profile) 1 PCI-E 3.0 x16 (SIOM)
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DRIVE BAYS (PER NODE)

Hot-swap	8 Hot-swap 3.5" SATA3 or 6 Hot-swap 3.5" SATA3 + 2 NVMe U.2
M.2	M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key

SYSTEM COOLING (PER NODE)

Fans	2x 8cm 14 RPM middle fans
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POWER SUPPLY (76MM WIDTH)

Total Output Power	1000W/1200W
Dimension (W x H x L)	76 x 40 x 336 mm
Input	100-127Vac / 15-12A / 50-60Hz 200-240Vac / 8.5-7A / 50-60Hz 200-240Vdc / 8.5-7A (for CCC only)
+12V	Max: 83A / Min: 0A (100-127Vac) Max: 100A / Min: 0A (200-240Vac) Max: 100A / Min: 0A (200-240Vdc)
+5Vsb	Max: 4A / Min: 0A
Output Type	19 Pairs Gold Finger Connector
Certification	Titanium Level [Test Report]

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°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

