

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Server SYS-F619P2-FT

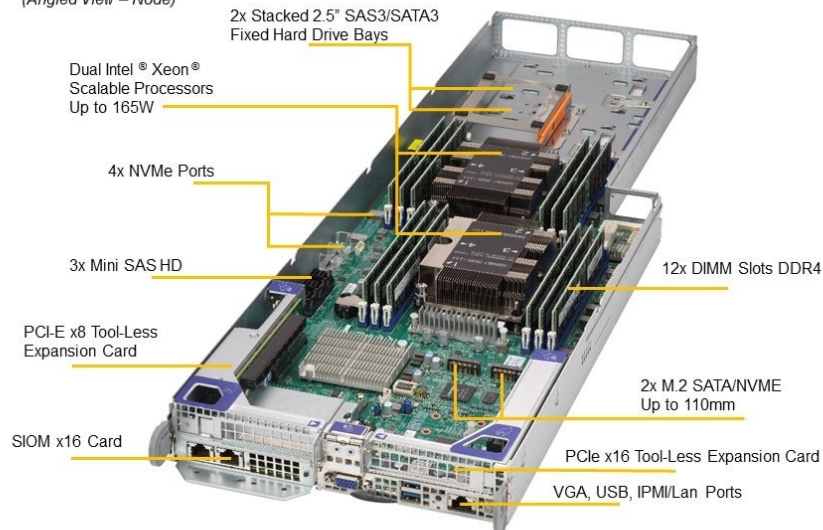
SKU SYS-F619P2-FT

4U

Supermicro

FatTwin™ SYS-F619P2-FT

(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-f619p2-ft



01 Product overview

The Supermicro SYS-F619P2-FT is a server built on dual Dual Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Process processors with up to 3 TB of memory in 12 DIMM slots.

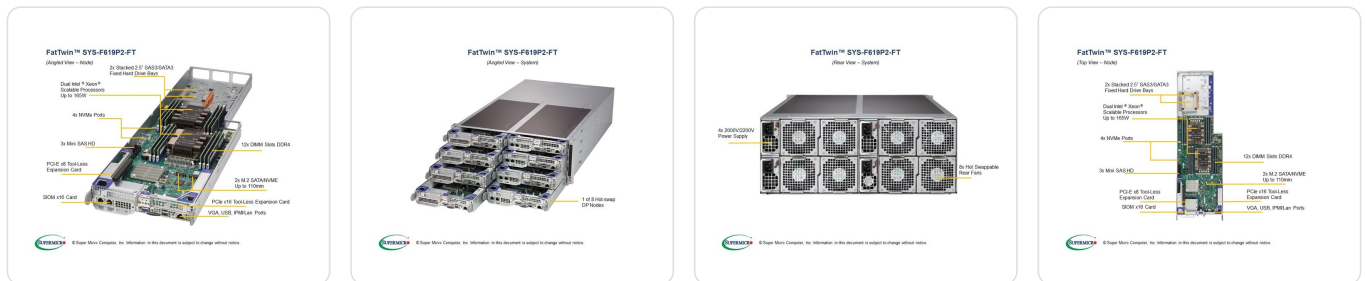
ServerInvest configures every SYS-F619P2-FT to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Dual Dual Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Process
- Up to 3 TB memory · 12 DIMM slots
- 2 or 4 Fixed 2.5" SATA3/NVMe drive bays
- Power: 1200W with Input 100-127Vac
- Networking: Flexible networking via

KEY SPECIFICATIONS

Form factor	4U
Processor	2× Dual Socket P (LGA 3647) 2nd Gen Intel Xeon Scalable Process
Memory	12 DIMM slots, up to 3 TB
Drive bays	2 (2 NVMe)
Power supply	1× 1200 W
Typical power draw	750 W
Networking	Flexible networking via
Dimensions (W×H×D)	437 × 178 mm



02 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
143 W	374 W	602 W	2,054 BTU/h	0.6 kW	50%

Typical 374 W · max 602 W · single PSU rating 1200 W

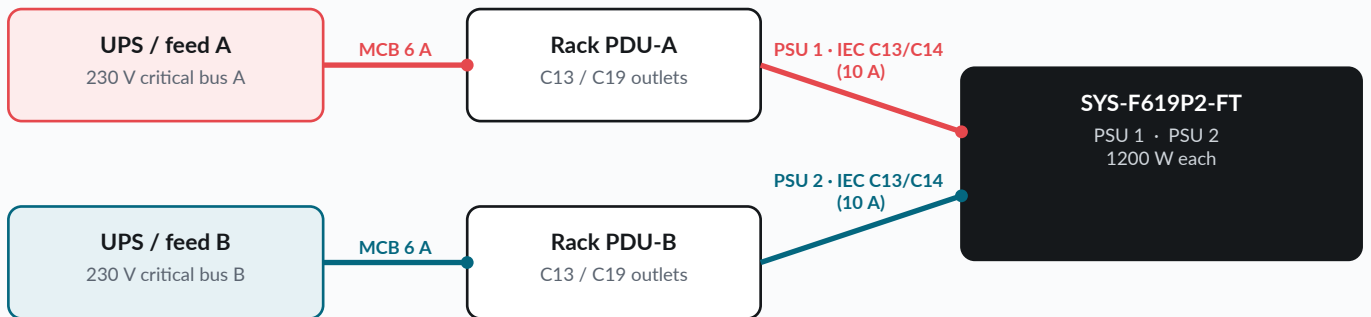
Annual IT energy (24/7)	2,669 kWh
Annual facility energy (PUE 1.5)	4,004 kWh
Annual energy cost	€534 IT · €801 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	1.04 t (grid factor 0.26 kg/kWh)
Power supplies	1× 1200 W

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	72 W	112 W	160 W
2× CPU (base configuration)	50 W	220 W	370 W
4× Memory (base configuration)	12 W	20 W	36 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: 2.8 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)

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); RAID 0, 1, 5, 10
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)

LAN	SIOM flexible Network card 1 RJ45 Dedicated IPMI LAN port (front)
USB	2 USB 3.0 ports (front)
VGA	1 VGA port (front)

SYSTEM BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
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MANAGEMENT

Software	Intel Node Manager IPMI 2.0 KVM with dedicated LAN SuperDoctor 5 Watch Dog
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Power Configurations	ACPI Power Management
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PC HEALTH MONITORING

CPU	Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
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FAN	Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
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Temperature	Monitoring for CPU and chassis environment Thermal Control for fan connectors
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CHASSIS

Form Factor	4U Rackmount
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Model	CSE-F418IF3-R2K20BP
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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 Network activity LEDs Information LED (Fan failure, Overheat)

EXPANSION SLOTS (PER NODE)

PCI-Express	1 PCI-E 3.0 x16 (Low-profile)
	1 PCI-E 3.0 x8 (Low-profile)
	1 PCI-E 3.0 x16 (SIOM)

DRIVE BAYS (PER NODE)

Fixed	2 or 4 Fixed 2.5" SATA3/NVMe drive bays
M.2	M.2 Interface: 2 SATA/PCI-E 3.0 x4, RAID 0 & 1 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key

SYSTEM COOLING

Fans	8x 8cm 13.5k RPM rear fans per enclosure
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POWER SUPPLY

Total Output Power and Input	1200W with Input 100-127Vac
	1800W with Input 200-220Vac
	1980W with Input 220-230Vac
	2090W with Input 230-240Vac
	2200W with Input 220-240Vac (for UL/cUL use only)
	2090W with Input 230-240Vdc (for CCC only)

AC Input Frequency	50-60Hz
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Dimension (W x H x L)	76 x 40 x 336 mm
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+12V	Max: 100A / Min: 0A (100-127Vac)
	Max: 150A / Min: 0A (200-220Vac)
	Max: 165A / Min: 0A (220-230Vac)
	Max: 174.17A / Min: 0A (230-240Vac)
	Max: 183.3A / Min: 0A (220-240Vac)

5VSB	Max: 1A / Min: 0A
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Output Type	Backplanes (gold finger)
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Certification	Titanium Level [Test Report]
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OPERATING ENVIRONMENT

RoHS	RoHS Compliant
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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

