

# SuperServer F619P2-RC0



- ▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#)
- ▶ [Tested M.2 List](#) ▶ [NVMe Options](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#)
- ▶ [Drive Options](#) ▶ [Tested SIOM](#)

## Key Features

### 8 Hot-plug System Nodes in 4U Each node supports:

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 1.5TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 12 DIMM slots
3. Expansion slots: 1 PCI-E 3.0 x16 (LP)  
1 PCI-E 3.0 x16 (for [SIOM](#))
4. 6 Hot-swap 2.5" SAS3/SATA3 or 2 Hot-swap 2.5" SAS3/SATA3 + 4 optional NVMe U.2
5. SAS3 via Broadcom 3008
6. SIOM Network card, 1 dedicated IPMI LAN port
7. 1 VGA, 2 USB 3.0 ports
8. 3x 4cm 20k RPM middle fans
9. 2200W Redundant Power Supplies Titanium Level (96% Efficiency)

Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

## Specifications

### Product SKUs

- SYS-F619P2-RC0
  - SuperServer F619P2-RC0 (Black)

### Motherboard

[Super X11DPFR-SN](#)

### Processor/Cache

- CPU
  - Dual Socket P (LGA 3647)
  - Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
  - Support CPU TDP 70-165W with IVR
- Cores
  - Up to 28 Cores with Intel® HT Technology

### System Memory

- Memory Capacity
  - 12 DIMM slots
  - Up to 1.5TB ECC 3DS LRDIMM, 1.5TB ECC RDIMM, DDR4 up to 2666MHz
- Memory Type
  - 2666/2400/2133MHz ECC DDR4 SDRAM

### On-Board Devices

### Chassis

- Form Factor
  - 4U Rackmount
- Model
  - CSE-F418BC2-R2K20BP

### 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)

Chipset	Intel® C621 chipset
SAS	▪ SAS3 (12Gbps) via Broadcom 3008
Network Controllers	▪ Flexible networking via <a href="#">SIOM</a>
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)

SAS	▪ 6 SAS3 (12Gbps) ports
NVMe	▪ 4 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
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#### Management

Software	▪ Intel® Node Manager ▪ <a href="#">IPMI 2.0</a> ▪ KVM with dedicated LAN ▪ <a href="#">SuperDoctor® 5</a> ▪ 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

#### 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	▪ 6 Hot-swap 2.5" SAS3/SATA3 or 2 Hot-swap 2.5" SAS3/SATA3 + 4 optional NVMe U.2
M.2	▪ M.2 Support

#### Backplane

1 SAS/SATA backplane
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#### System Cooling (per node)

Fans	▪ 3x 4cm 20k RPM middle fans
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#### Power Supply

2200W Redundant Power Supplies with PMBus	
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)
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5VSB	▪ Max: 1A / Min: 0A
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Output Type	▪ Backplanes (gold finger)
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Certification	  UL/cUL/CB/BSMI/CE/CCC Titanium Level [ Cert. in progress ]
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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)
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## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPFR-SN	8	Super X11DPFR-SN Motherboard
	CSE-F418BC2-R2K20BP	1	4U Chassis
<b>Backplane</b>	BPN-ADP-8S3008-1UF	8	BPN-ADP-8S3008-1UF
<b>Backplane</b>	BPN-ADP-X11DPFR	8	Power distribution board for X11DPFR-S(N)
<b>Backplane</b>	BPN-SAS3-F418-B6N4	8	6-Port Hybrid Backplane Supports 2x2.5" SAS3/SATA3 HDD/SDD and 4x2.5" SAS3/SATA3/NVMe Storage Devices for FatTwin Platform
<b>Cable 1</b>	CBL-0486L	16	2x2 to 2x2 15cm power cable HF. 18AWG
<b>Cable 2</b>	CBL-OTHR-0022L	8	20 to 20 pin cable for BPN-ADP-F418LS,7.5cm, 28AWG,RoHS/REACH,PBF
<b>Cable 3</b>	CBL-SAST-0697	16	MINI SAS HD,12G,INT,6CM,30AWG
<b>Riser Card</b>	RSC-RR1U-E16	8	RSC-RR1U-E16 with PIC-E x16 output
<b>Heatsink / Retention</b>	SNK-P0067PS	8	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Heatsink / Retention</b>	SNK-P0067PSM	8	1U Passive CPU Heat Sink with a 26-mm Wide Middle Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Power Supply</b>	PWS-2K20A-1R	4	1U 2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm

### Optional Parts List

	Part Number	Qty	Description
<b>Cable</b>	CBL-SAST-1002-1	-	4/node to enable NVMe
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)