

# SuperServer F619P2-RT



Views: | [Angled \(node\)](#) | [Top \(node\)](#) | [Angled Front \(system\)](#) | [Rear \(system\)](#) |



## Key Features

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

- Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)<sup>†</sup>
- 12 DIMMs; up to 3TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM<sup>††</sup>
- Expansion slots: 1 PCI-E 3.0 x16 (LP) 1 PCI-E 3.0 x16 (for [SIOM](#))
- 6 Hot-swap 2.5" SATA3 drive bays M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key
- SIOM Network card, 1 dedicated IPMI LAN port
- 1 VGA, 2 USB 3.0 ports
- 3x 4cm 20k RPM middle fans
- 2200W Redundant Power Supplies **Titanium Level** (96% Efficiency)

<a href="#">Drivers &amp; Utilities</a> <a href="#">BIOS</a> <a href="#">IPMI</a> <a href="#">Tested Memory</a> <a href="#">Tested M.2 List</a> <a href="#">Drive Options</a> <a href="#">Manuals</a> <a href="#">OS Certification Matrix</a> <a href="#">Tested SIOM</a> <a href="#">Network Card (AOC) Matrix</a>
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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

## Specifications ^

### Product SKUs

**SYS-F619P2-RT** SuperServer F619P2-RT (Black)

### Motherboard

#### Super X11DPFR-S

### Processor (per Node)

<b>CPU</b>	Dual Socket P (LGA 3647) 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors <sup>†</sup> , Dual UPI up to 10.4GT/s Support CPU TDP 70-165W with IVR
<b>Cores</b>	Up to 28 Cores
<b>Note</b>	<sup>†</sup> BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

### System Memory (per Node)

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

### On-Board Devices

<b>Chipset</b>	Intel® C621 chipset
<b>SATA</b>	SATA3 (6Gbps); RAID 0, 1, 5, 10
<b>Network Controllers</b>	Flexible networking via <a href="#">SIOM</a>
<b>IPMI</b>	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>Graphics</b>	ASPEED AST2500 BMC

### Input / Output (per node)

<b>LAN</b>	SIOM flexible Network card 1 RJ45 Dedicated IPMI LAN port
<b>USB</b>	2 USB 3.0 ports (rear)
<b>VGA</b>	1 VGA port

### System BIOS

<b>BIOS Type</b>	128Mb SPI Flash EEPROM with AMI BIOS
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### Management

<b>Software</b>	Intel® Node Manager <a href="#">IPMI 2.0</a> KVM with dedicated LAN <a href="#">SuperDoctor® 5</a> Watch Dog
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<b>Power Configurations</b>	ACPI Power Management
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### PC Health Monitoring

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

### Chassis

<b>Form Factor</b>	4U Rackmount
<b>Model</b>	<b>CSE-F418BC2-R2K20BP</b>

### Dimensions and Weight

<b>Width</b>	17.63" (448mm)
<b>Height</b>	6.96" (177mm)
<b>Depth</b>	29" (737mm)
<b>Package</b>	28.3" (W) x 15.0" (H) x 42.4" (D)
<b>Weight</b>	Net Weight: 150 lbs (68.04 kg) Gross Weight: 200 lbs (90.71 kg)
<b>Available Colors</b>	Black

### Front Panel

<b>Buttons</b>	Power On/Off button UID button
<b>LEDs</b>	Power status LED Hard drive activity LED Network activity LEDs Information LED (UID, Fan failure, Overheat)

### Expansion Slots (per node)

<b>PCI-Express</b>	1 PCI-E 3.0 x16 (Low-profile) 1 PCI-E 3.0 x16 (SIOM)
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### Drive Bays (per node)

<b>Hot-swap</b>	6 Hot-swap 2.5" SATA3 drive bays
<b>M.2</b>	<b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2260, 2280, 22110 <b>M.2 Key:</b> M-Key

### Backplane

1 SAS/SATA backplane

### System Cooling (per node)

<b>Fans</b>	3x 4cm 20k RPM middle fans
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### Power Supply

2200W Redundant Power Supplies with PMBus

<b>Total Output Power and Input</b>	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)
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**AC Input Frequency** 50-60Hz

**Dimension (W x H x L)** 76 x 40 x 336 mm

<b>+12V</b>	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)
<b>5VSB</b>	Max: 1A / Min: 0A

**Output Type** Backplanes (gold finger)

**Certification** **Titanium Level** [ [Test Report](#) ]

### Operating Environment

<b>RoHS</b>	RoHS Compliant
<b>Environmental Spec.</b>	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)

## Parts List ^

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPFR-S	8	Super X11DPFR-S Motherboard
	CSE-F418BC2-R2K20BP	1	4U Chassis
<b>Backplane</b>	BPN-ADP-X11DPFR	8	Power distribution board for X11DPFR-S(N)
<b>Backplane</b>	BPN-SAS-F418-B6	8	6-port Fat Twin 6Gbps hot swappable HDD backplane (W/O SGPIO), support up to 6x 2.5-inch SAS/SATA HDD
<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-PWCD-0578	4	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG
<b>Cable 4</b>	CBL-SAST-0616	8	MINI SAS HD-4 SATA,6G,INT,50CM,50CM SB,30AWG
<b>Cable 5</b>	CBL-SAST-1003-1	8	MINI SAS HD to 2X SATA,SB,INT,55 CM
<b>Riser Card</b>	RSC-RR1U-E16	8	RSC-RR1U-E16 with PIC-E x16 output
<b>Heatsink / Retention</b>	RSC-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>Software</b>	<a href="#">SFT-OOB-LIC</a> • <a href="#">eStore</a>	1	OOB Management Package (per node license)
<b>Software</b>	<a href="#">SFT-DCMS-Single</a>	1	DataCenter Management Package (per node license)

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