

# SuperServer F619P3-FT



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



## Key Features

- Compute Intensive Applications**  
**Data Center, HPC and Enterprise Applications**  
**Hyperscale, Hyperconverged**  
**4U 8 node system, each node:**
- 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>
  - 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (LP), 1 PCI-E 3.0 x16 (for [SIOM](#))
  - 2 Fixed 3.5" SATA3 drive bays  
M.2 Interface: 2 SATA/PCI-E 3.0 x4, RAID 0 and 1  
M.2 Form Factor: 2260, 2280, 22110  
M.2 Key: M-Key
  - Dual GbE ports via SIOM Network card, 1 dedicated IPMI LAN port (front)
  - 1 VGA, 2 USB 3.0 ports (front)
  - 8x 8cm 13.5k RPM rear fans per enclosure
  - 2200W Redundant Power Supplies **Titanium Level** (96% Efficiency)

- [Drivers & Utilities](#)
- [BIOS](#)
- [IPMI](#)
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- [OS Certification Matrix](#)
- [Tested SIOM](#)
- [Network Card \(AOC\) Matrix](#)

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

## Specifications ^

### Product SKUs

**SYS-F619P3-FT** SuperServer F619P3-FT (**Black**)

### Motherboard

#### Super X11DPFF-SN

### Processor (per Node)

- CPU** 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
- Cores** Up to 28 Cores
- Note** <sup>†</sup> 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<sup>†</sup> RDIMM/LRDIMM  
Supports Intel® Optane™ DCPMM<sup>††</sup>
- Memory Type** 2933<sup>†</sup>/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
- Note** <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

- 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

### 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-F418IF3-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  
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 Fixed 3.5" SATA3 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

### 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

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

**+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

**Output Type** Backplanes (gold finger)

**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)

## Parts List ^

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPFF-SN	8	Super X11DPFF-SN Motherboard
	CSE-F418IF3-R2K20BP	1	4U Chassis
<b>Backplane</b>	BPN-ADP-X11DPFF	8	Power adapter card for X11DPFF,RoHS
<b>Cable 1</b>	CBL-CDAT-0910	8	CBL,SGPIO,2X5F TO 2X5F,P2.54, 14CM, 24AWG,RoHS
<b>Cable 2</b>	CBL-PWCD-0578	4	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG
<b>Cable 3</b>	CBL-PWEX-1020-11	16	PWEX,2X4F/P4.2 TO 2X4F/P4.2,10.5CM,16AWG,RoHS
<b>Cable 4</b>	CBL-SAST-0672	8	MINI SAS HD-SAS 29PX2+2x4P,INT,46/56/41/52CM,22/30AWG,RoHS
<b>Drive Tray(s)</b>	MCP-220-00134-0N	16	Tool-less 3.5
<b>Riser Card</b>	RSC-P-6	8	RSC-P-6 (1U LHS TwinPro RSC with 1 PCI-Ex16),RoHS
<b>Riser Card</b>	RSC-R1UF-E16R	8	RSC-R1UF-E16R
<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-P0067PSC	8	1U Passive CPU Heat Sink with a 17-mm Wide Side Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>* Power Supply</b>	PWS-2K04A-1R	4	AC-DC 2000W, Titanium Level, Redundancy, 1U, PMBus 1.2, +12V/+5Vsb, 360x76x40mm,HF,RoHS/REACH
<b>* Power Supply</b>	PWS-2K20A-1R	4	1U 2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm
<b>* Backplane</b>	BPN-PDB-X11DPFF	2	Power Middleplane for X11 FIO Fattwin,RoHS
<b>* Rail Set</b>	MCP-290-41803-0N	1	Fat twin F418 / F424 Static Rail set support 28-33.5 inch depth rail,RoHS/REACH,PBF

- Notes:  
 1. Parts with \* are inside the chassis  
 2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

### Optional Parts List

	Part Number	Qty	Description
<b>Connect 1x 2.5" NVME Drive</b>	CBL-SAST-0950	1/node	2x OcuLink v 1.0 to 2x PCIe SFF-8639 w/ Power, 35/57CM, 32/24/20 AWG
<b>RAID Card</b>	AOC-S3108L-H8IR-16DD	-	LSI 3108 8 int 12Gb/s ports, 8xGen3, ROC - LP,16 HDD
<b>Software</b>	<a href="#">SFT-OOB-LIC</a> • eStore	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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