

SuperServer F619P2-RC1



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)[‡]
- 12 DIMMs; up to 3TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
- Expansion slots: 1 PCI-E 3.0 x16 (LP) 1 PCI-E 3.0 x16 (for [SIOM](#))
- 6 Hot-swap 2.5" SAS3/SATA3 or 2 Hot-swap 2.5" SAS3/SATA3 + 4 optional NVMe U.2 M.2 Interface: PCI-E 3.0 x4 M.2 Form Factor: 2260, 2280, 22110 M.2 Key: M-Key
- SAS3 via Broadcom 3108, HW RAID
- 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)

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- [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-F619P2-RC1 SuperServer F619P2-RC1 (**Black**)

Motherboard

Super X11DPFR-SN

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
SAS	SAS3 (12Gbps) via Broadcom 3108 HW RAID Firmware Download
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)

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

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

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-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)

Expansion Slots (per node)

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

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 Interface:** PCI-E 3.0 x4 **M.2 Form Factor:** 2260, 2280, 22110 **M.2 Key:** M-Key

Backplane

1 SAS/SATA backplane

System Cooling (per node)

Fans 3x 4cm 20k RPM middle fans

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)
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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
Motherboard / Chassis	MBD-X11DPFR-SN	8	Super X11DPFR-SN Motherboard
	CSE-F418BC2-R2K20BP	1	4U Chassis
Backplane	BPN-ADP-8S3108-1UF	8	Avago (LSI) 3108 adapter card for X10 FatTwin Rear I/O motherboards. Adapter card includes TFM module port and x8 SAS3 ports via x2 Mini-SAS HD connectors, HF, RoHS/REACH
Backplane	BPN-ADP-X11DPFR	8	Power distribution board for X11DPFR-S(N)
Backplane	BPN-SAS3-F418-B6N4	8	6-Port Hybrid Backplane Supports 2x2.5â SAS3/SATA3 HDD/SDD and 4x2.5â SAS3/SATA3/NVMe Storage Devices for FatTwin Platform
Cable 1	CBL-0486L	16	2x2 to 2x2 15cm power cable HF, 18AWG
Cable 2	CBL-OTHR-0022L	8	20 to 20 pin cable for BPN-ADP-F418LS, 7.5cm, 28AWG, RoHS/REACH, PBF
Cable 3	CBL-PWCD-0578	4	PWCD, US, IEC60320 C14 TO C13, 3FT, 14AWG
Cable 4	CBL-SAST-0697	16	MINI SAS HD, 12G, INT, 6CM, 30AWG
Riser Card	RSC-RR1U-E16	8	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0067PS	8	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	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
Power Supply	PWS-2K20A-1R	4	1U 2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm

Optional Parts List

	Part Number	Qty	Description
Super Cap for LSI 3108	1x BTR-TFM8G-LSICVM02 & 1x BKT-BBU-BRACKET-05	-	LSI Supercap w 8GB CV 24 cable (whole kit) & Supercap mounting bracket for PCI-E location
CacheVault Kit	BTR-CV3108-FT1	1/node	CacheVault kit for FatTwin Broadcom 3108 card. Includes: TFM, cables, brackets and supercap
Cable	CBL-SAST-1002-1	-	4/node to enable NVMe
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

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