

SuperServer F619P2-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)[‡]
- 12 DIMMs: up to 3TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
- 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (LP), 1 PCI-E 3.0 x16 (for [SIOM](#))
- 2 or 4 Fixed 2.5" SATA3/NVMe 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 Tested Memory Tested M.2 List Drive Options Manuals OS Certification Matrix Tested SIOM Network Card (AOC) Matrix
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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-FT SuperServer F619P2-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 [‡] , 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

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)
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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

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 [\[Test Report \]](#)

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-X11DPFF-SN	8	Super X11DPFF-SN Motherboard
	CSE-F418IF3-R2K20BP	1	4U Chassis
Backplane	BPN-ADP-X11DPFF	8	Power adapter card for X11DPFF,RoHS
Cable 1	CBL-CDAT-0910	8	CBL_SGPI0,2X5F TO 2X5F,P2.54, 14CM, 24AWG,RoHS
Cable 2	CBL-PWCD-0578	4	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG
Cable 3	CBL-PWEX-1020	16	PWEX,2X4F/P4.2 TO 2X4F/P4.2,10.5CM,16AWG,RoHS
Cable 4	CBL-PWEX-1020-11	16	PWEX,2X4F/P4.2 TO 2X4F/P4.2,10.5CM,16AWG,RoHS
Cable 5	CBL-SAST-0757	8	INT MINI SAS HD TO SAS 29px2 + 8p 2x4(5,12V) GPU PWR BLK,50cm,22/30AWG,RoHS/REACH
Riser Card	RSC-P-6	8	RSC-P-6 (1U LHS TwinPro RSC with 1 PCI-Ex16),RoHS
Riser Card	RSC-R1UF-E16R	8	RSC-R1UF-E16R
Heatsink / Retention	SNK-P0067PS	8	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	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
* Power Supply	PWS-2K04A-1R	4	AC-DC 2000W, Titanium Level, Redundancy, 1U, PMBus 1.2, +12V/+5Vsb, 360x76x40mm,HF,RoHS/REACH
* Power Supply	PWS-2K20A-1R	4	1U 2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm
* Backplane	BPN-PDB-X11DPFF	2	Power Middleplane for X11 FIO FatTwin,RoHS
* Rail Set	MCP-290-41803-0N	1	Fat twin F418 / F424 Static Rail set support 28-33.5 inch depth rail,RoHS/REACH,PBF

Notes:

- Parts with * are inside the chassis
- 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
Connect 2x 2.5" NVMe Drive	CBL-SAST-0950	1/node	2x OcuLink v 1.0 to 2x PCIe SFF-8639 w/ Power, 35/57CM, 32/24/20 AWG
Connect 4x 2.5" NVMe Drives	CBL-SAST-0950	2/node	2x OcuLink v 1.0 to 2x PCIe SFF-8639 w/ Power, 35/57CM, 32/24/20 AWG
*Consult with Technical Support	MCP-120-00107-0N	1/node	Fixed tool-less 2x 2.5" internal HDD bracket (2nd HDD required screws)
Connect 4x 2.5" SATA Drives	CBL-SAST-0673	1/node	MINI SAS HD-SAS 29Px4+2x4P x2,INT,47/47/57/57CM,22/30AWG
Working Conditions:	MCP-120-00107-0N	1/node	Fixed tool-less 2x 2.5" internal HDD bracket (2nd HDD required screws)
• CPU Watts: 165W or lower			
• Ambient Temp: 30°C or lower			
Connect 2x 2.5" SAS Drives	*Any Qualified LSI Card (Please refer to X11DPFF-SN Tested AOC List)	1/node	
Connect 4x 2.5" SAS Drives	CBL-SAST-0673	1/node	MINI SAS HD-SAS 29Px4+2x4P x2,INT,47/47/57/57CM,22/30AWG
Working Conditions:	MCP-120-00107-0N	1/node	Fixed tool-less 2x 2.5" internal HDD bracket (2nd HDD required screws)
• CPU Watts: 125W or lower	Any Qualified LSI Card (Please refer to X11DPFF-SN Tested AOC List)	1/node	-
• Ambient Temp: 25°C or lower			
SuperCap Kit	BTR-CV3108-TP2	1/node	LSI 3108 CacheVault kit for SIOM based TwinPro, RoHS/REACH
RAID Card	AOC-S3108L-H8IR-16DD	-	LSI 3108 8 int 12Gb/s ports, 8xGen3, ROC - LP,16 HDD
Software	SFT-OOB-LIC • e\$Store	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

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