

## SuperServer F619H6-FT



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

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

### Key Features

**Big Data, Analytics**  
**Hadoop, Data Ware House**  
**4U 4 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 (LP), 1 PCI-E 3.0 x8 (LP) 1 PCI-E 3.0 x16 (for [SIOM](#))
- 12 Fixed 3.5" SATA3 drive bays  
 M.2 Interface: 2 SATA/PCI-E 3.0 x4  
 M.2 Form Factor: 2260/2280/22110  
 M.2 Key: M-Key
- Networking via SIOM Network card, 1 dedicated IPMI LAN port (front)
- 1 VGA, 2 USB 3.0 ports (front)
- 8x 8cm rear fans per chassis per enclosure
- 2200W Dual Power Supplies  
**Titanium Level (96% Efficiency)**

### Specifications ^

Product SKUs	
<b>SYS-F619H6-FT</b>	SuperServer F619H6-FT (Black)
Motherboard	
<b>Super X11DPFF-SN</b>	
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 70-125W
<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 (front)
<b>USB</b>	2 USB 3.0 ports (front)
<b>VGA</b>	1 VGA port (front)
System BIOS	
<b>BIOS Type</b>	128Mb SPI Flash EEPROM with AMI BIOS
Management	
<b>Software</b>	Intel® Node Manager <a href="#">IPMI 2.0</a> KVM with dedicated LAN <a href="#">SuperDoctor® 5</a> Watch Dog
<b>Power Configurations</b>	ACPI Power Management
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-F414IS4-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 Network activity LEDs Information LED (Fan failure, Overheat)
Expansion Slots (per node)	
<b>PCI-Express</b>	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)	
<b>Fixed</b>	12 Fixed 3.5" SATA3 drive bays
<b>M.2</b>	<b>M.2 Interface:</b> 2 SATA/PCI-E 3.0 x4, RAID 0 & 1 <b>M.2 Form Factor:</b> 2260/2280/22110 <b>M.2 Key:</b> M-Key
System Cooling	
<b>Fans</b>	8x 8cm rear fans per chassis enclosure
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)
<b>AC Input Frequency</b>	50-60Hz
<b>Dimension (W x H x L)</b>	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
<b>Output Type</b>	Backplanes (gold finger)
<b>Certification</b>	<b>Titanium Level</b> <a href="#">[ Test Report ]</a>
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-X11DPFF-SN	8	Super X11DPFF-SN Motherboard
	CSE-F414IS4-R2K20BP	1	4U Chassis
<b>Backplane</b>	BPN-ADP-X11DPFF	4	Power adapter card for X11DPFF,RoHS
<b>Backplane</b>	BPN-SAS-801T-A2	4	2-port 1U CSE-801 backplane with thermistor and individual HDD power cycle, support up to 2x 3.5-inch HDD/SSD
<b>Backplane</b>	BPN-SAS-801T-A4	8	4-port 1U CSE-801 backplane with thermistor and individual HDD power cycle, support up to 4x 3.5-inch HDD/SSD
<b>Backplane</b>	BPN-SAS3-F414T-A2	4	12G 2-Port Backplane to support 2*3.5" SAS3/SATA3 HDD for X11 FatTwin (Base on BPN-SAS3-SCP1T-A2-AC107),HF,RoHS
<b>Cable 1</b>	CBL-CDAT-0911	4	CBL_SGPI0,2X5F TO 2X5F,P2.54,31CM, 24AWG
<b>Cable 2</b>	CBL-PWCD-0578	2	PWCD_US,IEC60320 C14 TO C13,3FT,14AWG
<b>Cable 3</b>	CBL-PWEX-0914	8	PWR EXT,2X2F/P3.0 TO 2X2F/P3.0, LED/GND/5V/12V, 72CM, 22AWG
<b>Cable 4</b>	CBL-PWEX-1021-11	8	PWEX,2X4F/P4.2 TO 2X4F/P4.2,27CM,16AWG,RoHS
<b>Cable 5</b>	CBL-PWEX-1074	4	PWEX,2X4F/P4.2 TO 2X2F/P4.2 x2,BLK*4,YEL*2,RED*2,20CM,16AWG
<b>Cable 6</b>	CBL-PWEX-1075	4	PWEX,2X4F/P4.2 TO 2X2F/P4.2 x2,BLK*4,YEL*2,RED*2,21/51CM,16AWG
<b>Cable 7</b>	CBL-SAST-0611	4	MINI SAS HD-4 SATA,12G,INT,43/40/40/43CM,30AWG
<b>Cable 8</b>	CBL-SAST-0612	4	MINI SAS HD-4 SATA,12G,INT,59/56/59/56CM,30AWG
<b>Cable 9</b>	CBL-SAST-0699	4	MINI SAS HD-4 SATA,12G,INT,75/75/90/90CM,75CM SB,28/30AWG,Ro
<b>Riser Card</b>	RSC-P-6	4	RSC-P-6 (1U LHS TwinPro RSC with 1 PCI-Ex16),RoHS
<b>Riser Card</b>	RSC-R1UF-E16R	4	RSC-R1UF-E16R
<b>Heatsink / Retention</b>	SNK-P0067PS	4	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Heatsink / Retention</b>	SNK-P0067PSC	4	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-2K20A-1R	2	1U 2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm
<b>* Backplane</b>	BPN-PDB-X11DPFF-F414	1	Fat Twin 4U 4-Node power middle-plane with LCMC. Support 2x power supplies.
<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:

- 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
<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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