

SuperServer F618H6-FT+



Key Features

Hadoop, 4-Node Front I/O Each node supports:

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family; QPI up to 9.6GT/s
2. Up to 2TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz ; 16x DIMM slots
3. 2 PCI-E 3.0 x8 (LP) slots
4. Dual GbE LAN via Intel® i350
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 2 USB 3.0 ports, 1 VGA connector
7. 8 Fixed 3.5" SAS3/SATA3 + 4 Fixed 3.5" SATA Drive Bays
Optional 2.5" drives mounted in PCI-E
8. 2000W Redundant Power Supplies Titanium Level (96%)

[▶ Drivers & Utilities](#)
[▶ BIOS](#)
[▶ IPMI](#)
[▶ Tested Memory](#)
[▶ Drive Options](#)

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

Specifications

Product SKUs

SYS-F618H6-FT+ ■ SuperServer F618H6-FT+

Motherboard

Super X10DRFF-CG

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 145W TDP) *
 ■ Dual Socket R3 (LGA 2011)

Cores / Cache ■ Up to 22 Cores† / Up to 55MB† Cache

System Bus ■ QPI up to 9.6 GT/s

Note † BIOS version 2.0 or above is required

Note * Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory

Memory ■ 16x 288-pin DDR4 DIMM slots

Chassis

Form Factor ■ 4U Rackmount

Model ■ CSE-F414IS3-R2K04BP

Dimensions

Width ■ 17.63" (448mm)

Height ■ 6.96" (177mm)

Depth ■ 35" (889mm)

Package ■ 25.6" (W) x 11.8" (H) x 48.0" (D)

Weight ■ Net Weight: 200 lbs (90.72 kg)
 ■ Gross Weight: 240 lbs (108.86 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ UID button

LEDs ■ Power status LED
 ■ 2 Network activity LEDs

Expansion Slots (per node)

PCI-Express ■ 2 PCI-E 3.0 x8 Low-profile via riser card

Capacity	<ul style="list-style-type: none"> Up to 2TB ECC 3DS LRDIMM, 1TB ECC RDIMM
Memory Type	<ul style="list-style-type: none"> 2400⁺/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB 3DS LRDIMM: 128GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via LSI 3008 SW RAID 0, 1, 10 support
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1, 5, 10
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1 Realtek RTL8211E PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output (per node)

SAS	<ul style="list-style-type: none"> 8 SAS3 (12Gbps) ports
SATA	<ul style="list-style-type: none"> 10 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 GbE ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports
VGA	<ul style="list-style-type: none"> 1 VGA connector



Drive Bays (per node)

Fixed	<ul style="list-style-type: none"> 8 Fixed 3.5" SAS3/SATA3 + 4 Fixed 3.5" SATA drive bays Optional 2.5" drives mounted in PCI-E slot
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System Cooling

Fans	<ul style="list-style-type: none"> 8x 8cm heavy duty fans and PWM fan speed control
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Power Supply (76mm Width)

2000W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/2000W
Dimension (W x H x L)	<ul style="list-style-type: none"> 76 x 40.4 x 336 mm
Input	<ul style="list-style-type: none"> 100-127 Vac / 12-9.5 A / 50-60 Hz 200-220 Vac / 10-9.5 A / 50-60 Hz 220-230 Vac / 10-9.8 A / 50-60 Hz 230-240 Vac / 10-9.8 A / 50-60 Hz 200-240 Vac / 11.8-10 A / 50-60 Hz (UL/cUL only)
+12V	<ul style="list-style-type: none"> Max: 83.3A & Min: 0A (100-127 Vac) Max: 150A & Min: 0A (200-220 Vac) Max: 165A & Min: 0A (220-230 Vac) Max: 166.7A & Min: 0A (230-240 Vac) Max: 166.7A & Min: 0A (200-240 Vac)(UL/cUL only)
+5Vsb	<ul style="list-style-type: none"> Max: 1A / Min: 0A
Output Type	<ul style="list-style-type: none"> 27 Pairs Gold Finger Connector
Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°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-X10DRFF-CG	4	Super X10DRFF-CG Motherboard
	CSE-F414IS3-R2K04BP	1	4U Chassis
Backplane	BPN-ADP-F418L	4	BPN;SASADP;SAS827-H8;H8DTT;cable req
Backplane	BPN-SAS-801T-A4	8	4-port 1U CSE-801 cold storage backplane with thermistor and individual HDD power cycle, support up to 4x 3.5-inch SAS2/SATA3 HDD/SSD
Backplane	BPN-SAS-801T-A1	8	1-port 1U CSE-801 cold storage backplane with thermistor and individual HDD power cycle, support up to 1x 3.5-inch SAS2/SATA3 HDD/SSD
Backplane	BPN-SAS-801T-A2	4	2-port 1U CSE-801 cold storage backplane with thermistor and individual HDD power cycle, support up to 2x 3.5-inch SAS2/SATA3 HDD/SSD
Cable 1	CBL-PWEX-0821	4	PWYCB,2X4F/GPU to 3 2X2F,P4.2, 36/54/65CM, 18AWG, 5/12V
Cable 2	CBL-SAST-0616	4	internal mini SAS HD to 4 SATA 50CM, S, w/50cm SB,HF,RoHS/REACH,PBF
Cable 3	CBL-OTHR-0758	8	INT P0.3 40p to 40p HS FPC 85 ohms impedance,11cm,0.2mm thick,RoHS/REACH
Cable 4	CBL-PWEX-0822	4	PWYCB,2X4F/GPU to 2 2X2F,P4.2,39/41CM+2 RA SATA PWR 29CM,18G
Cable 5	CBL-0481L	4	81CM 30AWG SATA S-S cable
Cable 6	CBL-SAST-0641	8	45cm SATA cable S-RA 30AWG,RoHS/REACH
Cable 7	CBL-SAST-0556	4	internal 6G mini SAS HD to 4 SATA, 75/75/90/90cm w/75cm SB, S. 30AWG,HF,RoHS/REACH,PBF
Cable 8	CBL-SAST-0639	4	31cm SATA cable S-RA 30AWG,RoHS/REACH
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Riser Card	RSC-88-F2	4	,RoHS/REACH LHS 1U PCI-E x8 (F2)
Riser Card	RSC-88-F1	4	LHS Riser Card with PCI-Ex8,RoHS/REACH (F1)
Heatsink / Retention	SNK-P0047PS	4	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Heatsink / Retention	SNK-P0047PSC	4	1U Passive Front CPU Heat Sink w/ a Side Air Channel for X9, X10 Systems Equipped with a Narrow ILM MB
Power Supply	PWS-2K04A-1R	2	AC-DC 2000W, Titanium Level, Redundancy, 1U, PMBus 1.2, +12V/+5Vsb, 360x76x40mm,HF,RoHS/REACH

Optional Parts List			
	Part Number	Qty	Description
HDD Bracket	MCP-240-00134-0N	2/node	FIXED 2.5 HDD bracket for add-on-card slot (2 CBL-0734L per node required)
	MCP-120-00096-0N	1/node	Riser card bracket
	MCP-120-00097-0N	1/node	Riser card bracket
Software	SFT-OOB-LIC	4	OOB Management Package (per node license)
Software	SFT-DCMS-Single	4	DataCenter Management Package (per node license)
AOC	AOM-TPM-9655V-S	-	Based on AOM-TPM-9655V with Server TXT package,RoHS/REACH
AOC	AOM-TPM-9665V-S	-	Verical TPM TCG 2.0 Provisioned for server,RoHS/REACH