



SuperServer F618H6-FTPTL+

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Integrated Board

Super X10DRFF-CTG

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

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

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. 2x PCI-E 3.0 x8 (LP) slots
4. I/O ports: 2 10GBase-T, 2 USB 3.0, and 1 VGA connector
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 12 Fixed 3.5" SAS3/SATA3 HDD Bays
Optional 2.5" drives mounted in PCI-E
7. 2000W Redundant Power Supplies
Titanium Level (96%)

Specifications

Product SKUs

SYS-F618H6-FTPTL+	■ SuperServer F618H6-FTPTL+
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Motherboard

Super X10DRFF-CTG

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 Capacity	■ 16x 288-pin DDR4 DIMM slots ■ Up to 2TB [†] ECC 3DS LRDIMM, 1TB ECC RDIMM
Memory Type	■ 2400[†] /2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	■ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB ■ LRDIMM: 64GB, 32GB ■ 3DS LRDIMM: 128GB
Memory Voltage	■ 1.2 V
Error Detection	■ Corrects single-bit errors

On-Board Devices

Chipset	■ Intel® C612 chipset
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Chassis

Form Factor	■ 4U Rackmount
Model	■ CSE-F414IS2-R2K04B

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 ■ 2x Network activity LEDs

Expansion Slots (per node)

PCI-Express	■ 2x PCI-E 3.0 x8 Low-profile via riser card
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Drive Bays (per node)

Fixed	■ 12x Fixed 3.5" SAS3/SATA3 HDD trays ■ Optional 2.5" drives mounted in PCI-E slot
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System Cooling

Fans	■ 8x 8cm heavy duty fans and PWM fan speed control
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Power Supply with Digital Switching Control

2000W Redundant Titanium Level Power Supplies

Total Output Power	■ 1000W/1800W/1980W/2000W ■ 100-127 V 50-60 Hz
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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® X540 Dual Port 10GBase-T ■ Virtual Machine Device Queues reduce I/O overhead ■ Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ■ 1x 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"> ■ 8x SAS3 (12Gbps) ports
SATA	<ul style="list-style-type: none"> ■ 10x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> ■ 2x RJ45 10GBase-T ports ■ 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ■ 2x USB 3.0 ports
VGA	<ul style="list-style-type: none"> ■ 1x VGA port

AC Input	<ul style="list-style-type: none"> ■ 100-120 V, 50-60 Hz ■ 200-220 V, 50-60 Hz ■ 220-230 V, 50-60 Hz ■ 230-240 V, 50-60 Hz
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+12V	<ul style="list-style-type: none"> ■ Max: 83.3A & Min: 0A (100Vac-127Vac) ■ Max: 150A & Min: 0A (200Vac-220Vac) ■ Max: 165A & Min: 0A (220Vac-230Vac) ■ Max: 166.7A & Min: 0A (230Vac-240Vac)
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5V SB	<ul style="list-style-type: none"> ■ Max: 1A / Min: 0A
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Certification	  Titanium Level [Test Report]
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System BIOS

BIOS Type	<ul style="list-style-type: none"> ■ 128Mb SPI Flash EEPROM with AMI BIOS
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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
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> ■ RoHS Compliant
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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)
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Parts List

[See Parts List](#)

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