

SuperServer F617H6-FTL+



Integrated Board



Super X9DRFF-7G+

Key Features

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

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM sockets
3. Expansion slot: 1 PCI-E 3.0 x8 (LP) and 1 PCI-E 2.0 x4 (LP) via riser card
4. I/O ports: 2 GbE ports, 1 Built-in video, 1 COM port onboard, 3 USB 2.0 ports
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 8 Fixed 3.5" SAS/SATA HDD Bays + 4 Fixed 3.5" SATA HDD Bays
Additional 2 Fixed 2.5" SATA HDD Bays optional
7. 1620W Redundant Power Supplies Platinum Level (94%)

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

Specifications

Product SKUs

SYS-F617H6-FTL+ ■ SuperServer F617H6-FTL+

Motherboard

Super X9DRFF-7G+

Processor/Cache

CPU

- Dual Socket R (LGA 2011)
 - Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP *)
- * Please contact your Supermicro sales representative for additional details

Note † BIOS version 3.0 or above is required

Cache ■ Up to 30MB

System Bus ■ QPI up to 8 GT/s

System Memory (per node)

- 16x 240-pin DDR3 DIMM sockets
- Up to 1TB DDR3 ECC LRDIMM

Chassis

Form Factor ■ 4U Rackmount

Model ■ CSE-F414IS-R1K62B

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 (90.71 kg)
■ Gross Weight: 240 lbs (108.86 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
■ System Reset button

LEDs ■ Power status LED
■ 2x Network activity LEDs
■ System Overheat LED
■ Power fail LED

Memory Capacity	<ul style="list-style-type: none"> Up to 512GB DDR3 ECC Registered memory (RDIMM) Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	<ul style="list-style-type: none"> 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C602 Chipset
AHCI SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1
SAS	<ul style="list-style-type: none"> SAS2 (6Gbps) via LSI 2308 SW RAID 0, 1, 10 support
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 Nuvoton WPCM450 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 1x Realtek RTL8201F PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> Matrox G200eW

Input / Output (per node)

AHCI SATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps) <p>Note: 2 of the 4 SATA 2.0 ports are for optional 2x 2.5" HDDs</p>
SAS	<ul style="list-style-type: none"> 8x SAS2 ports (6Gbps)
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 3x USB 2.0 ports (2 rear + 1 Type A)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port

Expansion Slots (per node)

PCI-Express	<ul style="list-style-type: none"> 1x PCI-E 3.0 x8 Low-profile via riser card 1x PCI-E 2.0 x4 Low-profile via riser card
-------------	--

Drive Bays (per node)

Fixed	<ul style="list-style-type: none"> 8x Fixed 3.5" SAS/SATA HDD trays 4x Fixed 3.5" SATA HDD trays Additional 2 Fixed 2.5" SATA HDD Bays optional
-------	--

System Cooling

Fans	<ul style="list-style-type: none"> 8x 8cm heavy duty fans with air shroud and PWM fan speed control
------	--

Power Supply

1620W high-efficiency redundant power supply w/ PMBus

AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-120V, 12-10A, 50-60Hz 1200W Output @ 120-140V, 12-10A, 50-60Hz 1620W Output @ 180-240V, 10.5-8A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/84A; +5Vsb/4A 1200W: +12V/100A; +5Vsb/4A 1620W: +12V/150A; +5Vsb/4A

Certification	  Platinum Certified [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-X9DRFF-7G+	4	Super X9DRFF-7G+ Motherboard
	CSE-F414IS-R1K62B	1	4U Chassis
Backplane	BPN-SAS-816T-A3-O-P	4	3x 3.5
Backplane	BPN-SAS-816T-A4-O-P	8	1U Hadoop HDD backplane board - model A4 supports 4x 3.5
Backplane	BPN-ADP-F418L-O-P	4	BPN;SASADP;SAS827-H8;H8DTT;cable req
Cable 1	CBL-0473L	12	21cm 30AWG SATA S-S cable
Cable 2	CBL-PWEX-0485-01	4	8 pin (5A) to 2 2x2(50/60CM) and 2 SATA (26+16CM) one piece tooling connector power cable. 18AWG,HF,RoHS/REACH,PBF
Cable 3	CBL-PWEX-0511-01	4	8pin to 2x2pin (50cm) and 2 SATA power connectors 46/16cm one piece tooling connector Power cable,18AWG,HF,RoHS/REACH,PBF
Cable 4	CBL-0481L	12	81CM 30AWG SATA S-S cable
Cable 5	CBL-0483L	8	29cm 30AWG SATA S-S cable
Cable 6	CBL-0484L	16	55cm 30AWG SATA S-S cable
Riser Card	RSC-R1UFF-E8R-O-P	4	RSC-R1UFF-E8R
Riser Card	RSC-R1UFF-E8-O-P	4	RSC-R1UFF-E8
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-1K62P-1R	2	1620W REDUNDANT POWER MODULE
Mounting Rail	MCP-290-41803-0N	1	Fat twin F418 / F424 Rail set support 28-33.5 inch depth rail,RoHS/REACH,PBF

Optional Parts List

	Part Number	Qty	Description
HDD Bracket	MCP-240-00134-0N or MCP-240-00145-0N	2/node 12/node	FIXED 2.5 HDD bracket for add-on-card slot Swappable 2.5" HDD bracket. Replaces original 3.5" HDD space
Software	SFT-OOB-LIC	8	BIOS management capabilities
Software	SFT-DCMS-Single	-	Remote Management - Datacenter Package