

SuperServer F517H6-FT



Key Features

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

1. Single socket H2 (LGA 1155) supports Intel® Xeon® E3-1200 & E3-1200 v2 series, 2nd and 3rd Gen Core i3 processors***, Pentium, and Celeron
2. Up to 32GB DDR3 ECC 1333MHz / 1600MHz*** UDIMMs in 4 sockets
3. 1 (x8) PCI-E 3.0*** Low-profile slot
4. I/O ports: 2 GbE LAN, 1 Built-in video, 1 COM port onboard, 2 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 (connected to AOC w/ LSI 2308 SAS2 ports) + 4 Fixed 3.5" SATA HDD Bays + 2 Fixed 2.5" SATA HDD Bays
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-F517H6-FT ■ SuperServer F517H6-FT

Motherboard

Super X9SCFF-F

Processor/Cache

CPU

- Intel® Xeon® processor E3-1200 & v2 series, Intel® 2nd Gen and 3rd Gen Core i3, Intel® Pentium® and Celeron processors *
- Socket H2 (LGA 1155)

System Memory (per node)

Memory Capacity

- 4x 240-pin DDR3 DIMM slots
- Supports up to 32 GB DDR3 ECC Un-Buffered memory (UDIMM)

Memory Type

- 1333/1600MHz*** ECC DDR3 SDRAM 72-bit, 240-pin gold-plated UDIMMs

DIMM Sizes

- 8GB, 4GB, 2GB, 1GB

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 Voltage	▪ 1.5 V
Error Detection	<ul style="list-style-type: none"> ▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	▪ Intel® C204 PCH 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
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 GbE controller ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	▪ Matrox G200eW
Input / Output (per node)	
SATA	<ul style="list-style-type: none"> ▪ 2x SATA 3.0 ports (6Gbps) ▪ 4x SATA 2.0 ports (3Gbps)
SAS	▪ 8x SAS2 ports (6Gbps) supported via LSI 2308 AOC
LAN	<ul style="list-style-type: none"> ▪ 2x RJ45 Gigabit Ethernet LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	▪ 5x USB 2.0 ports (2 front, 2 via header, 1 type A)
VGA	▪ 1x VGA port
Serial Port / Header	▪ 1x Fast UART 16550 port

Expansion Slots (per node)	
PCI-Express	▪ 1 (x8) PCI-E 3.0 Low-profile slot*** via riser card
Drive Bays (per node)	
Fixed	<ul style="list-style-type: none"> ▪ 8x Fixed 3.5" SAS/SATA HDD trays (connected to AOC w/ 8x LSI 2308 SAS2 Ports) ▪ 4x Fixed 3.5" SATA HDD trays ▪ 2x Fixed 2.5" SATA HDD trays
System Cooling	
Fans	▪ 8x 11k RPM 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	▪ 64Mb 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	▪ 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-X9SCFF-F	4	Super X9SCFF-F Motherboard
	CSE-F414IS-R1K62B	1	4U Chassis
Backplane	BPN-SAS-816T-A4	8	1U Hadoop HDD backplane board - model A4 supports 4x 3.5
Backplane	BPN-SAS-816T-A3	4	3x 3.5
Backplane	BPN-ADP-F418L	4	BPN;SASADP;SAS827-H8;H8DTT;cable req
Cable 1	CBL-0237L-01	4	IPASS TO 4 SATA 70CM W/ 70cmSB, S. 30AWG
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-0484L	20	55cm 30AWG SATA S-S cable
Cable 4	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 5	CBL-0476L	4	IPASS to 4 SATA, 55,45,35,30, w/55 SB, 30AWG
Riser Card	RSC-R1UFF-E8R	8	RSC-R1UFF-E8R
Heatsink / Retention	SNK-P0047PS	4	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Mounting Rail	MCP-290-41803-0N	1	Fat twin F418 / F424 Rail set support 28-33.5 inch depth rail,RoHS/REACH,PBF
Add-on Card	AOC-S2308L-L8I	4	STD Gen-3 PCI-E @ 8Gb/s, 6Gb/s SAS, 8 internal ports, low profile, RAID 0,1,10

Optional Parts List

	Part Number	Qty	Description
HDD Bracket	MCP-240-00131-0N	1/node	FIXED HDD bracket when customer use UP MB instead of DP MB

*** [BIOS rev. 2.0 or above](#) is needed to support new E3-1200 v2 CPUs, which supports PCI-E 3.0 & DDR3 1600.