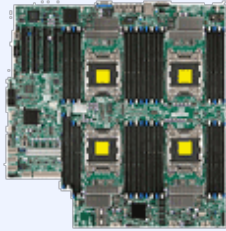


SuperServer 8017R-7FT+



Integrated Board



Super X9QR7-TF+

Key Features

1. Quad socket R (LGA 2011) supports Intel® Xeon® processor E5-4600 v2 (12-Core)** or E5-4600 (8-Core) family, w/ QPI up to 8.0 GT/s
2. Up to 1TB* DDR3 1866MHz ECC Registered DIMM; 32x DIMM sockets
* Depends on memory configuration
3. 1x PCI-E 3.0 x16 Low-profile Slot
4. Intel® X540 Dual port 10GBase-T
5. I/O ports: 2x 10Gb LAN, 1x Dedicated LAN for IPMI Remote Management, 1x VGA, 1x COM port, 4x USB 2.0
6. 3x 3.5" Hot-swap SAS2/SATA3 Drive Bays
7. 7x 4cm Counter Rotating Fans with speed control
8. 1400W High Efficiency Digital PS Platinum Level (95%)

Available Colors:

Black



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

Specifications

Product SKUs

SYS-8017R-7FT+ ■ SuperServer 8017R-7FT+ (Black)

Motherboard

Super X9QR7-TF+

Processor/Cache

CPU ■ Intel® Xeon® processor E5-4600 v2 (12-Core)** or E5-4600 (8-Core) family (up to 130W CPU at 35°C)
■ Quad Socket R (LGA 2011)

** BIOS rev. 3.0 or above is needed to support Ivy Bridge-EP 4S.

Cache ■ Up to 20MB

System Bus ■ QPI up to 8 GT/s

Chassis

Form Factor ■ 1U Rackmount

Model ■ CSE-818A-1K43LPB

Dimensions

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 27.75" (705mm)

Weight ■ Gross: 48.5 lbs / Net: 27 lbs

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
■ System Reset button

LEDs ■ Power LED
■ Hard drive activity LED
■ 2x Network activity LEDs
■ System Overheat LED

System Memory	
Memory Capacity	<ul style="list-style-type: none"> 32x 240-pin DDR3 DIMM sockets Supports up to 1TB DDR3 ECC Registered memory (RDIMM) in 32 DIMM sockets
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
SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5 SATA 3.0 6Gbps with RAID 0, 1
SAS	<ul style="list-style-type: none"> SAS2 (6Gbps) via LSI® 2208 controller HW RAID 0, 1, 5 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® 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 RTL8201F PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> Matrox G200eW (Nuvoton WPCM450 BMC)
Super I/O	<ul style="list-style-type: none"> Nuvoton W83527HG

Input / Output	
SATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps)
SAS	<ul style="list-style-type: none"> 8x SAS2 ports (6Gbps)
LAN	<ul style="list-style-type: none"> 2x RJ45 10GBase-T ports 1x dedicated LAN port for IPMI
USB	<ul style="list-style-type: none"> 4x USB 2.0 rear ports
Video	<ul style="list-style-type: none"> 1x VGA Port
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 serial port

System BIOS	
BIOS Type	<ul style="list-style-type: none"> 16MB SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) PCI 2.2 ACPI up to 3.0 USB Keyboard support

Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 1x PCI-E 3.0 x16 Low-profile Slot


Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 3x 3.5" Hot-swap SAS2/SATA3 HDD Bays with RAID 0, 1, 5 (Hardware RAID)

Backplane	
SAS/SATA HDD Backplane	

Peripheral Drives	
DVD-ROM	<ul style="list-style-type: none"> 1x Slim DVD-ROM (Optional)

System Cooling	
Fans	<ul style="list-style-type: none"> 7x 4cm Counter-rotating fans with optimal fan speed control
Shroud	<ul style="list-style-type: none"> 1x Air Shroud

Power Supply	
1400W High-efficiency AC power supply with Digital Switching Control & PMBus 1.2	
AC Voltage	<ul style="list-style-type: none"> 1200W: 100-140 V, 14.7-10.5A, 50-60 Hz 1400W: 180-240 V, 10.5-8.0A, 50-60 Hz
+5V standby	<ul style="list-style-type: none"> 6 Amp
+12V	<ul style="list-style-type: none"> 100 Amp/115 Vac 117 Amp/230 Vac
With Power Distributor	<ul style="list-style-type: none"> +5V: 30 Amp +3.3V: 25 Amp -12V: 0.6 Amp

Certification	 Platinum Certified
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PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.2V, 1.5V, +3.3V, +12V, (+3V, 1.0V, 1.2V, 1.8V, 1.1V) Standby, VBAT, Memory, Chipset Voltages. 4-Phase-switching voltage regulator with auto-sense from 0.6V-1.35V
FAN	<ul style="list-style-type: none"> 4-pin fan headers with tachometer status monitoring Low noise fan speed control mode
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and system environment Thermal Control for 10x fan connectors
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection

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-X9QR7-TF+	1	Super X9QR7-TF+ Motherboard
	CSE-818A-1K43LPB	1	CSE-818A-1K43LPB 1U Chassis
Air Shroud	MCP-310-81809-0B	1	Mylar air shroud for SC818A (X9QRI/7-TF+)
Backplane	BPN-SAS-818A	1	supports 3 SAS/SATA (3.5") w/ MG9071
Cable 1	CBL-0385L	1	40cm RA HDD backplane power extension 4 pin to power cable for SC818A
Cable 2	CBL-0108L-02	1	IPASS TO IPASS 39CM PBF
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PCI-E x16 output
Heatsink / Retention	SNK-P0047PS	4	1U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Cable 3	CBL-0087	1	Front Control Cable Round 16 pin to 16 pin Ribbon 20
Cable 4	CBL-0154L	1	AC POWER CABLE FOR SC818, 36.5CM PBF
Cable 5	CBL-0174L	1	US power cord 14AWG 6ft, PBF.2.08mm^2
Fan 1	FAN-0101L4	6	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
Drive Tray(s)	MCP-220-00093-0B	3	Black 3.5
Mounting Rails	MCP-290-00101-0N	2	Outer rail, screw type, 25.6" to 33.05"
Mounting Rails	MCP-290-00111-0N	2	Inner rail, extension, long, screw type
Mounting Rails	MCP-290-00016-0N	1	1U open rack bracket set for CSE-PT51L,MCP-290-00054-0N
Mounting Rails	MCP-290-00105-0N	2	Inner rail, front, screw type
Power Supply	PWS-1K43F-1R	1	1400W digital power supply

Optional Parts List

	Part Number	Qty	Description
2.5" HDD/SSD Tray	MCP-220-00043-0N	-	Black hotswap gen 4 3.5 to 2.5 HDD tray