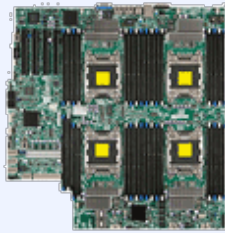


# SuperServer 8017R-TF+



## Integrated Board



Super X9QRI-F+

Available Colors:

Black



## Key Features

1. Quad socket R (LGA 2011) supports Intel® Xeon® processor E5-4600 family (8-Core), w/ QPI up to 8.0 GT/s
2. Up to 1TB\* DDR3 1600MHz SDRAM in 32x DIMM sockets  
\* Depends on memory configuration
3. 1x PCI-E 3.0 x16 Low-profile Slot
4. Intel® i350 Dual port GbE LAN
5. I/O ports: 2x GbE LAN, 1x Dedicated LAN for IPMI Remote Management, 1x VGA, 1x COM port, 4x USB 2.0
6. 3x 3.5" Hot-swap SATA2 Drive Bays
7. 7x 4cm Counter Rotating Fans with speed control
8. 1400W High Efficiency Digital PS 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-8017R-TF+ ■ SuperServer 8017R-TF+ (Black)

### Motherboard

Super X9QRI-F+

### Processor/Cache

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

Cache ■ Up to 20MB

System Bus ■ QPI up to 8 GT/s

### System Memory

Memory Capacity ■ 32x 240-pin DDR3 DIMM sockets  
■ Supports up to 1TB DDR3 ECC Registered memory (RDIMM) in 32 DIMM sockets

Memory **Handy** ■ 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated QCT •

### 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

### Expansion Slots

DIMM Sizes	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB, 2GB, 1GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C602 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 5</li> <li>SATA 3.0 6Gbps with RAID 0, 1</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Nuvoton WPCM450 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® i350 Dual port GbE LAN</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201F PHY (dedicated IPMI)</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>Matrox G200eW (Nuvoton WPCM450 BMC)</li> </ul>
Super I/O	<ul style="list-style-type: none"> <li>Nuvoton W83527HG</li> </ul>
<b>Input / Output</b>	
SATA	<ul style="list-style-type: none"> <li>2x SATA 3.0 ports (6Gbps)</li> <li>4x SATA 2.0 ports (3Gbps)</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x dedicated LAN port for IPMI</li> </ul>
USB	<ul style="list-style-type: none"> <li>4x USB 2.0 rear ports</li> </ul>
Video	<ul style="list-style-type: none"> <li>1x VGA Port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1 Fast UART 16550 serial port</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>16MB SPI Flash EEPROM with AMI® BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.2</li> <li>ACPI up to 3.0</li> <li>USB Keyboard support</li> </ul>

PCI-Express	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 x16 Low-profile Slot</li> </ul>
<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>3x 3.5" Hot-swap SATA3 HDD Bays with RAID 0, 1, 5 (Software RAID)</li> </ul>
<b>Backplane</b>	
SAS/SATA HDD Backplane (SAS support requires optional SAS controller)	
<b>Peripheral Drives</b>	
DVD-ROM	<ul style="list-style-type: none"> <li>1x Slim DVD-ROM (Optional)</li> </ul>
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>7x 4cm Counter-rotating fans with optimal fan speed control</li> </ul>
Shroud	<ul style="list-style-type: none"> <li>1x Air Shroud</li> </ul>
<b>Power Supply</b>	
1400W High-efficiency AC power supply with Digital Switching Control & PMBus 1.2	
AC Voltage	<ul style="list-style-type: none"> <li>1200W: 100-140 V, 14.7-10.5A, 50-60 Hz</li> <li>1400W: 180-240 V, 10.5-8.0A, 50-60 Hz</li> </ul>
+5V standby	<ul style="list-style-type: none"> <li>6 Amp</li> </ul>
+12V	<ul style="list-style-type: none"> <li>100 Amp/115 Vac</li> <li>117 Amp/230 Vac</li> </ul>
With Power Distributor	<ul style="list-style-type: none"> <li>+5V: 30 Amp</li> <li>+3.3V: 25 Amp</li> <li>-12V: 0.6 Amp</li> </ul>
Certification	 <a href="#">Platinum Certified</a>
<b>PC Health Monitoring</b>	
CPU	<ul style="list-style-type: none"> <li>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.</li> <li>4-Phase-switching voltage regulator with auto-sense from 0.6V-1.35V</li> </ul>
FAN	<ul style="list-style-type: none"> <li>4-pin fan headers with tachometer status monitoring</li> <li>Low noise fan speed control mode</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and system environment</li> <li>Thermal Control for 10x fan connectors</li> </ul>
Other Features	<ul style="list-style-type: none"> <li>Chassis intrusion detection</li> </ul>
<b>Operating Environment / Compliance</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9QRI-F+	1	Super X9QRI-F+ 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-0116L	1	IPASS TO 4 SATA 50CM CROSS OVER PBF. 26AWG
Cable 2	CBL-0385L	1	40cm RA HDD backplane power extension 4 pin to power cable for SC818A
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
Power Supply	PWS-1K43F-1R	1	1400W redundant digital power supply
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-290-00016-0N	1	1U open rack bracket set for CSE-PT51L,MCP-290-00054-0N
Mounting Rails	MCP-290-00101-0N	2	Outer rail, screw type, 25.6" to 33.05"
Mounting Rails	MCP-290-00105-0N	2	Inner rail, front, screw type
Mounting Rails	MCP-290-00111-0N	2	Inner rail, extension, long, screw type