

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. Intel® C602 chipset
 Up to 1TB* DDR3 1866MHz ECC Registered DIMM; 32x DIMM slots * Depends on memory configuration
4. Expansion slots: 2x PCI-E 3.0 x16 and 2x PCI-E 3.0 x8
5. Intel® i350 Dual port GbE LAN
6. 2x SATA3 ports + 4x SATA2 ports
7. Integrated IPMI 2.0 + KVM over LAN
8. 8x USB 2.0 ports (4 rear, 3 front + 1 Type A)

Links & Resources

- Tested Memory List
- Tested HDD / SSD List
- Motherboard Manual
- Update Your BIOS
- BMC/IPMI Firmware
- Download the Latest Drivers and Utilities
- Download Driver CD
- Heat Sink Compatibility
- OS Compatibility

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales	-
rep for alternative options.	

MBD-X9QRi- F+ -B	■ X9QRi-F+ (Bulk Pack)	
Physical Stats		
Form Factor	Proprietary	
Dimensions	16.4" x 16.79" (41.66cm x 42.65cm)	
Processor/Cacl	he	
CPU	 Intel® Xeon® processor E5-4600 v2 (12-Core)** or E5-4600 (8-Core) family Quad Socket R (LGA 2011) ** BIOS rev. 3.0 or above is needed to support Ivy Bridge-EP 4S. 	
Cache	∎ Up to 30MB	
System Bus	QPI up to 8 GT/s	
System Memory	у	
Memory	■ 32x 240-pin DDR3 DIMM slots	

Memory Capacity	 32x 240-pin DDR3 DIMM slots Supports up to 1TB DDR3 ECC Registered memory (RDIMM) in 32 DIMM slots 		
Memory Type	 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs 		
DIMM Sizes	32GB, 16GB, 8GB, 4GB, 2GB, 1GB		
Memory Voltage	∎ 1.5 V, 1.35 V		
Error Detection	 Corrects single-bit errors Detects double-bit errors (using ECC memory) 		

On-Board Devices

0	
Chipset	Intel® C602 chipset
SATA	 SATA 2.0 3Gb/s with RAID 0, 1, 5, 10 SATA 3.0 6Gb/s with RAID 0, 1, 5, 10
IPMI	 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	Intel® i350 Dual port GbE LAN

1U Chassis	 CSE-818A-1K43LPB (rev. M required, Air Shroud MCP-310- 81809-0B)
2U Chassis	 <u>CSE-828TQ-R1K43LPB</u> (rev. M required, Air Shroud MCP-310- 82805-0B)
Tower / 4U Rackmount	 <u>CSE-418E16-R1K62B</u> <u>CSE-418E16-R1K62B2</u> <u>CSE-748TQ-R1K43B</u> <u>CSE-848E16-R1K62B</u> (for SC748, rev. M required, Air Shroud MCP-310-74805-0B) (for SC848 & 418, rev. M required, Air Shroud MCP-310-84803-0B)
Important Chassis Notes	 To support the new generation Intel® Xeon® processor-based motherboards, <u>Revision M</u> chassis is recommended. Please talk to your sales representative for details.

SuperServer(s) with X9QRi-F+

Model(s)	 SYS-8047R-TRF+ SYS-8017R-TF+

Expansion Slots PCI-Express 2x PCI-E 3.0 x16 slots 2x PCI-E 3.0 x8 slots

System BIOS BIOS Type	16MB SPI Flash EEPROM with AMI BIOS	
BIOS Features	 Plug and Play (PnP) APM 1.2 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1 	
Management		
Software	 IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support <u>SuperDoctor® III</u> Watch Dog 	

Controllers	 Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201F PHY (dedicated IPMI) 		
Video	 G200 (Nuvoton WPCM450 BMC with graphic controller) 		
Super I/O	Nuvoton W83527HG		
Input / Output			
SATA	2x SATA 3.0 ports (6Gb/s)4x SATA 2.0 ports (3Gb/s)		
LAN	 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port 		
USB	 8x USB 2.0 ports total (4 rear + 3 front + 1 Type A) 		
Video	1x VGA port		
Serial Port / Header	 2x Fast UART 16550 ports: 1 rear and 1 header 		
DOM	1 DOM (Disk on Module) power connector		

	 Optional IPMI 1.5 / 2.0 		
Power Configurations	 ACPI / APM Power Management Main Switch Override Mechanism CPU Fan auto-off in sleep mode Power-on mode for AC power recovery 		
C Health Monito	pring		
Voltage Monitors for CPU Cores, +1.8V, +3 +5V, ±12V, +3.3V Standby, +5V St VBAT, HT, Memory, Chipset Voltag 5 Phase-switching voltage regulator			
FAN	 10x 4-pin fan headers 10x fans with tachometer monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors 		
F emperature	 Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors I²C temperature sensing logic Thermal Monitor 2 (TM2) support PECI 		
LED	CPU / System Overheat LED		
Other Features	Chassis intrusion detection Chassis intrusion header SDDC Support		

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (retail)

	Part Number	Qty	Description
X9QRi-F+	MBD-X9QRi-F+	1	X9QRi-F+ Motherboard
Manual	Manual ID# 1324	1	Motherboard Manual
I/O Cables	CBL-0044L	6	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.

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