

SuperServer 7047R-TXRF



Integrated Board



[Super X9DRX+-F](#)

Available Colors:

Black



Key Features

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 slots: 10x PCI-E 3.0 x8, 1x PCI-E 2.0 x4 (in x8)
4. Intel® i350 Dual port Gigabit Ethernet
5. 8x 3.5" Hot-swap HDD Bays
6. 3x 5.25" Peripheral Drive Bays
7. 1280W Redundant Power Supplies **Platinum Level (94%)**
8. Tower or Rackmount

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

Specifications

Product SKUs

SYS-7047R-TXRF	■ SuperServer 7047R-TXRF (Black)
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Motherboard

Super X9DRX+-F

Processor/Cache

CPU	<ul style="list-style-type: none"> ■ Dual Socket R (LGA 2011) ■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
Note	† BIOS version 3.0 or above is required

Cache	■ Up to 30MB
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System Bus	■ QPI up to 8 GT/s
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System Memory

Memory Capacity	<ul style="list-style-type: none"> ■ 16x 240-pin DDR3 DIMM sockets ■ Up to 1TB DDR3 ECC LRDIMM ■ Up to 512GB DDR3 ECC Registered memory (RDIMM) ■ Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	■ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

Chassis

Form Factor	<ul style="list-style-type: none"> ■ 4U Rackmountable / Tower ■ Optional Rackmount Kit
Model	■ CSE-747TQ-R1K28B

Dimensions

Height	■ 17.2" (437mm)
Width	■ 7.0" (178mm)
Depth	■ 26.5" (673mm)
Weight	<ul style="list-style-type: none"> ■ Net Weight: 56.2 lbs (25.5 kg) ■ Gross Weight: 76.0 lbs (34.5 kg)

Available Colors	■ Black
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Front Panel

Buttons	<ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button
LEDs	<ul style="list-style-type: none"> ■ Power LED ■ Hard drive activity LED ■ 2x Network activity LEDs ■ System Overheat LED ■ Power Fail LED
Ports	■ 2x USB Ports

Drive Bays

Hot-swap	■ 8x Hot-swap 3.5" Drive Trays
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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, 10 SATA 3.0 6Gbps with RAID 0, 1, 5, 10
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 RTL8201N PHY (dedicated IPMI)
Video	<ul style="list-style-type: none"> Matrox G200eW
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) 8x SATA 2.0 ports (3Gbps)
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"> 10x USB 2.0 ports total (4x rear + 4x via header + 2x Type A)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2x Fast UART 16550 ports (1 rear + 1 header)
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 10x PCI-E 3.0 x8 1x PCI-E 2.0 x4 (in x8)
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 DMI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI

Peripheral Bay(s) [90° Rotatable]	<ul style="list-style-type: none"> 3x 5.25" Peripheral Drive Trays
SAS / SATA Backplane	
SAS / SATA Hard Drive Backplane w/AMI MG9072	
System Cooling	
Fans	<ul style="list-style-type: none"> 4x 92x38mm 4-pin PWM middle fans 2x 80x38mm 4-pin PWM rear exhaust fans
Power Supply	
1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2	
AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-140V, 12-8A, 50-60Hz 1280W Output @ 180-240V, 8-6A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
Certification	  Platinum Certified [Test Report]
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 6-Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Total of eight fan headers supporting up to 8 fans 8x fans with tachometer status monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x fan connectors Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend static indicator LED UID/Remote LED
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header
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-X9DRX+-F	1	Super X9DRX+-F Motherboard
	CSE-747TQ-R1K28B	1	4U Chassis
Backplane	BPN-SAS-747TQ-O-P	1	4u, SAS Backplane,x8 3.5
Cable 1	CBL-0061L	8	35CM, SATA CABLE, PB FREE, 26AWG, flat
Cable 2	CBL-0157L	2	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Cable 3	CBL-0237L	2	IPASS TO 4 SATA 70CM W/ 70cmSB, S. 26AWG
Heatsink / Retention	SNK-P0050AP4	2	4U Active CPU Heat Sink for X9 Socket R WS
Power Distributor	PDB-PT747-4648	1	POWER DISTRIBUTOR FOR SC747 W/ GRAPHIC OUTPUT FEATURE
Cable 4	CBL-0071L	1	ROUND 16 pin TO 16 PIN RIBBON FP CABLE 30
Cable 5	CBL-0160L	2	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Cable 6	CBL-0216L	4	4 PIN TO 4 PIN MIDDLE FAN POWER EXTENSION, 20cm. 24AWG(PWM)
Cable 7	CBL-0286L	2	4 to 4 pin rear fan pwr ext w/ square header, 30cm (PWM). 24AWG
Fan 1	FAN-0082L4	2	80x80x38 mm 4-pin PWM Fan Assembly for SC743, SC745
Fan 2	Fan-0114L4	4	92x38mm 4-PIN PWM FAN W/ HUS for SC747
Drive Tray(s)	MCP-220-00073-0B	3	Black 5.25 drive tray w/o rail (SC747)
Drive Tray(s)	MCP-220-00094-0B	8	Black gen 6.5 hot-swap 3.5 inch HDD Tray
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket

Optional Parts List			
	Part Number	Qty	Description
Mounting Rails	MCP-290-00059-0B	-	Rail set+handles, quick/quick, optional for 4U 17.2"W tower