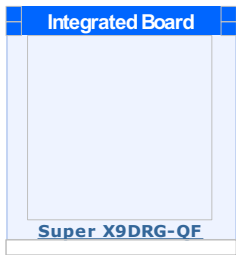


Products ☐ Systems ☐ 4U ☐ **[7047GR-TRF]**



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:
4 PCI-E 3.0 x16 (support 4x double-width GPU cards),
2 PCI-E 3.0 x8 (1 in x16),
1 PCI-E 2.0 x4 (in x8)
4. Intel® i350 Dual port Gigabit Ethernet
5. 2x SATA3 and 8x SATA2 ports
6. 8x Hot-swap 3.5" HDD Bays
7. 1620W Redundant Power Supplies
Platinum Level (94%)
8. Tower or Rackmount

Available Colors: Dark Gray ☐

- [Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested MEM](#) [Tested HDD](#) [Manuals](#)
[OS Certification Matrix](#) [Compatible GPU List](#)

Product SKUs	
SYS-7047GR-TRF	● SuperServer 7047GR-TRF (Black)
Motherboard	
Super X9DRG-QF	
Processor/Cache	
CPU	● Intel® Xeon® processor E5-2600 (up to 150W TDP) ● Dual Socket R (LGA 2011)
Cache	● Up to 20MB
System Bus	● QPI up to 8 GT/s
GPU	● Supports C2075, up to 150W CPU at 35°C ● K20C (Kepler), up to 150W CPU at 35°C
System Memory	
Memory Capacity	● 16x 240-pin DDR3 DIMM sockets ● Up to 1TB DDR3 ECC LRDIMM ● Up to 512GB DDR3 ECC Registered memory (RDIMM) ● Up to 192GB DDR3 ECC Un-Buffered memory (UDIMM)
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	
Chipset	● Intel® C602 Chipset
SATA	● SATA 2.0 3Gbps with RAID 0, 1, 5, 10 ● SATA 3.0 6Gbps with RAID 0, 1
IPMI	● Support for Intelligent Platform Management Interface v.2.0 ● IPM 2.0 with virtual media over LAN and KVM-over-LAN support ● Renesas SH7757 BMC
Network Controllers	● 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	● G200 (Renesas SH7757 BMC with graphic controller)
Super I/O	● Nuvoton W83527
Input / Output	
SATA	● 2x SATA 3.0 ports (6Gbps) ● 8x SATA 2.0 ports (3Gbps)
LAN	● 2x RJ45 Gigabit Ethernet LAN ports ● 1x RJ45 Dedicated IPM LAN port
USB	● 9x USB 2.0 ports total (4x rear + 4x via header + 1x Type A)
Video	● 1x VGA port
Serial Port / Header	● 1x Fast UART 16550 port / 1 Header
Expansion Slots	
PCI-Express	● 4 PCIe 3.0 x16 (double-width) ● 2 PCIe 3.0 x8 (1 in x16 slot) ● 1 PCIe 2.0 x4 (in x8)
System BIOS	
BIOS Type	● 128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	● Plug and Play (PnP) ● APM 1.2 ● DM 2.2 ● ACPI 1.0 / 2.0 ● USB Keyboard support ● SMBIOS 2.3 ● UEFI
Chassis	
Form Factor	● 4U Rackmountable / Tower ● Optional Rackmount Kit
Model	● CSE-747TQ-R1620B
Dimensions	
Height	● 18.2" (462mm)
Width	● 7.0" (178mm)
Depth	● 26.5" (673mm)
Gross Weight	● 62 lbs (28.1kg)
Available Colors	● Dark Gray
Front Panel	
Buttons	● Power On/Off button ● System Reset button
LEDs	● Power status LED ● Hard drive activity LED ● 2x Network activity LEDs ● System Overheat & Power Fail LED
Ports	● 2x Front USB 2.0 Ports
Drive Bays	
Hot-swap	● 8x Hot-swap 3.5" SAS/SATA Drive Trays
Peripheral Bay(s)	● 3x 5.25" drive bays in storage module - rotates 90° for Rackmount ● 1x 3.5" fixed drive bay
SAS / SATA Backplane	
SAS / SATA Hard Drive Backplane with SES2	
System Cooling	
Fans	● 4x 92x38mm 4-pin PWM Middle Cooling Fans ● 2x 80x38mm 4-pin PWM Rear Exhaust Fans
Power Supply	
1620W/high-efficiency redundant power supply w/ PMBus	
AC Input	● 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	● 1000W: +12V/84A; +5Vsb/4A ● 1200W: +12V/100A; +5Vsb/4A ● 1620W: +12V/150A; +5Vsb/4A
Certification	 94%+ 
PC Health Monitoring	
CPU	● 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	● 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	● Monitoring for CPU and chassis environment ● CPU thermal trip support ● Thermal Control for 8x fan connectors ● Thermal Monitor 2 (TM2) support ● PECI
LED	● CPU / System Overheat LED ● Suspend static indicator LED ● UID/Remote LED
Other Features	● Chassis intrusion detection ● Chassis intrusion header
Operating Environment / Compliance	
RoHS	● RoHS Compliant
Environmental Spec.	● 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) <ul style="list-style-type: none">• Non-operating Relative Humidity: 5% to 95% (non-condensing)
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[See Parts List](#)

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