

SuperServer 6027R-72RFT+



Available Colors:

Black



Integrated Board



Super X9DR7-TF+

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Up to 1.5TB ECC DDR3, up to 1866MHz; 24x DIMM sockets
3. Expansion slots:
2 x16 PCI-E 3.0 and 4 x8 PCI-E 3.0
4. Intel® X540 Dual port 10GBase-T
5. 4x SATA2 and 2x SATA3 ports
6. 8x Hot-swap 3.5" HDD Bays;
Support SAS2 HW RAID via LSI 2208
7. 740W Redundant Power Supplies
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-6027R-72RFT+** ■ SuperServer 6027R-72RFT+ (**Black**)

Motherboard

Super X9DR7-TF+

Processor/Cache

- CPU** ■ 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

- System Bus** ■ QPI up to 8 GT/s

System Memory

- Memory Capacity** ■ 24x 240-pin DDR3 DIMM sockets
■ Up to 1.5TB DDR3 ECC LRDIMM
■ Up to 768GB 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

Chassis

- Form Factor** ■ 2U Rackmount
- Model** ■ **CSE-825TQ-R740LPB**

Dimensions

- Width** ■ 17.2" (437mm)
- Height** ■ 3.5" (89mm)
- Depth** ■ 25.5" (648mm)
- Gross Weight** ■ 52 lbs (23.6kg)
- Available Colors** ■ Black

Front Panel

- Buttons** ■ Power On/Off button
■ System Reset button
- LEDs** ■ Power status LED
■ Hard drive activity LED
■ 2x Network activity LEDs
■ System Overheat LED
■ Power fail LED

Expansion Slots

- 2 PCI-E 3.0 x16 Low-profile slot
■ 4 PCI-E 3.0 x8 Low-profile slots

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® C602J 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
SAS	<ul style="list-style-type: none"> SAS2 via LSI 2208 HW RAID 0, 1, 5, 6, 10, 50, 60 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 RTL8201N PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> Nuvoton W83527HG
Input / Output	
Serial ATA	<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 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 9x USB 2.0 ports total (4x rear + 4x via header + 1x Type A)
VGA	<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 and 1 header

PCI-Express

(Both CPUs need to be installed for full access to PCI-E slots. See manual for details.)

Drive Bays

Hot-swap 8x Hot-swap 3.5" SAS2/SATA HDD trays

Peripheral Drives

DVD-ROM Slim DVD-ROM drive (optional)

Backplane

1x SAS2 / SATA backplane

System Cooling

Fans 3x 8cm 7k RPM middle fans

Power Supply with Power Distributor

740W (1+1) Redundant high-efficiency power supply with PMBus

AC Input 100-240 V, 50-60 Hz, 9-3.5 Amp

DC Output 4 Amp @ +5V standby
61.7 Amp @ +12V

With Power Distributor

- +5V: 30 Amp
- +3.3V: 24 Amp
- 12V: 0.6 Amp

Certification

Platinum Certified
[[Test Report](#)]

System BIOS

BIOS Type 128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features

- Plug and Play (PnP)
- APM 1.2
- PCI 2.2
- ACPI 1.0 / 2.0
- USB Keyboard support
- SMBIOS 2.3
- UEFI

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)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DR7-TF+	1	Super X9DR7-TF+ Motherboard
	CSE-825TQ-R740LPB	1	2U Chassis
Backplane	BPN-SAS-825TQ-O-P	1	BPN-SAS-825TQ-O-P
Cable 1	CBL-0176L-02	2	IPASS TO 4 SATA 46/33/23/13CM W/ SB, S 30AWG
Heatsink / Retention	SNK-P0048P	2	2U Passive CPU Heat Sink for X9 Generation Motherboards w/ Square ILM
Power Supply	PWS-741P-1R	2	1U740W Platinum Redundant Single Output
Cooling Fan	FAN-0126L4	3	80x80x38 mm 7K RPM Chassis Middle Fan w/ Housing

Optional Parts List

	Part Number	Qty	Description
DVD option kit	CBL-0210L	-	FDD, DVD, 4-pin power adapter cable, L=8cm
	CBL-0341L		1CH internal 10P to 4P USB 2.0 cable for LCD,DVD, 70cm
	CDM-USATA-G-O-P		mini-SATA to USB adapter for slim DVD
	DVM-TEAC-DVD-SBT2		BLACK TEAC SLIM DVD ROM SATA DRIVE ROHS