

SuperServer 6028R-TR



Key Features

- Cloud and Virtualization needs
- Compute Intensive Application
- Database Processing and Storage
- High Availability Storage
- Mission-critical Applications

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 1TB ECC DDR4 2133MHz; 16x DIMM sockets
3. 3 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 slots
4. Intel® i350 Dual port GbE LAN
5. Intel C612 controller for 8 SATA3 ports; RAID 0, 1, 5, 10
6. 8x 3.5" Hot-swap SATA3 HDD Bays
7. 740W Redundant Power Supplies Platinum Level (94% efficiency)

Available Colors:

Black



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

Specifications

Product SKUs

SYS-6028R-TR ■ SuperServer 6028R-TR (Black)

Motherboard

Super X10DRi

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP **)
 ■ Dual Socket R3 (LGA 2011)

Cores / Cache ■ Up to 18 Cores / Up to 45MB Cache

System Bus ■ QPI up to 9.6 GT/s

Note ** Please contact your Supermicro sales representative for additional details.

System Memory

■ 16x 288-pin DDR4 DIMM sockets

Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-825TQ-R740LPB

Dimensions and Weight

Width ■ 17.2" (437mm)

Height ■ 3.5" (89mm)

Depth ■ 25.5" (647mm)

Package ■ 26" (H) x 11" (W) x 34.5" (D)

Weight ■ Net Weight: 35.5 lbs (16 kg)
 ■ Gross Weight: 69 lbs (31.2 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button
 ■ UID button

■ Power status LED

Memory Capacity	<ul style="list-style-type: none"> Up to 1TB ECC LRDIMM, 512GB ECC RDIMM
Memory Type	<ul style="list-style-type: none"> 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 Express chipset
SATA	<ul style="list-style-type: none"> 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 ASPEED AST2400 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)
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

Serial ATA	<ul style="list-style-type: none"> 8x SATA3 (6Gbps) ports 2x SATA3 powered ports that support SATA DOM
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"> Rear USB: 2x USB 3.0 + 2x USB 2.0 Front USB: 2x USB 2.0 USB Header: 2x 3.0, 2x 2.0, 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 serial 2x COM Ports (1 rear, 1 header)
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports

Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5 Watch Dog NMI, SPM, SUM IPMI 2.0 Intel Node Manager
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management Power-on mode for AC power recovery

LEDs	<ul style="list-style-type: none"> HDD activity LED 2x Network activity LEDs System information (overheat/UID) LED
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Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 3x PCI-E 3.0 x16 (Low-profile) 3x PCI-E 3.0 x8 (Low-profile)
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> 8x 3.5" Hot-swap SATA HDD trays
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Backplane

2U SAS/SATA backplane

System Cooling

Fans	<ul style="list-style-type: none"> 3x 80x80x38mm Counter-rotating PWM fans
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Power Supply with Power Distributor

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

AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 9-3.5 Amp
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DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 61.7 Amp @ +12V
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Certification



Platinum Certified
[[Test Report](#)]

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI® BIOS
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BIOS Features	<ul style="list-style-type: none"> 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
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRi	1	Super X10DRi Motherboard
	CSE-825TQ-R740LPB	1	1U Chassis
Backplane	BPN-SAS-825TQ-O-P	1	BPN-SAS-825TQ-O-P
Cable 1	CBL-0484L	4	55cm 30AWG SATA S-S cable
Cable 2	CBL-0473L	2	21cm 30AWG SATA S-S cable
Cable 3	CBL-0483L	2	29cm 30AWG SATA S-S cable
Cable 4	CBL-CDAT-0661	2	8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH
Heatsink / Retention	SNK-P0048PS	2	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-741P-1R	2	1U740W Platinum Redundant Single Output

Optional Parts List

	Part Number	Qty	Description
Onsite Service Program	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	QSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)