

SuperServer 6028R-TRT

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Integrated Board



[Super X10DRi-T](#)

Available Colors: Black

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

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® X540 Dual port 10GBase-T
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)

Specifications

Product SKUs	
SYS-6028R-TRT	SuperServer 6028R-TRT (Black)
Motherboard	
Super X10DRi-T	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ 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	
Memory Capacity	<ul style="list-style-type: none"> ▪ 16x 288-pin DDR4 DIMM slots ▪ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM
Memory Type	▪ 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	▪ 1.2 V
Error Detection	▪ Corrects single-bit errors
On-Board Devices	
Chipset	▪ Intel® C612 Express chipset
SATA	▪ 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® X540 Dual Port 10GBase-T ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

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	<ul style="list-style-type: none"> ▪ Net Weight: 35.5 lbs (16 kg) ▪ Gross Weight: 69 lbs (31.2 kg)
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button ▪ UID button
LEDs	<ul style="list-style-type: none"> ▪ Power status LED ▪ HDD activity LED ▪ 2x Network activity LEDs ▪ System information (overheat/UID) LED
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)
Drive Bays	
Hot-swap	▪ 8x 3.5" Hot-swap SATA HDD trays
Backplane	
2U SAS/SATA backplane	
System Cooling	
Fans	▪ 3x 80x80x38mm Counter-rotating PWM fans
Power Supply with Power Distributor	
740W (1+1) Redundant high-efficiency power supply with PMBus	

	<ul style="list-style-type: none"> 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 10GBase-T 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

AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 9-3.5 Amp
DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 61.7 Amp @ +12V
Certification	 Platinum Certified [Test Report]
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 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1
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

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