





SuperServer 6028R-TT

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Integrated Board



Super X10DRi-T

Available Colors:

Black



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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 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Up to 2TB[†] ECC 3DS LRDIMM , up to DDR4- 2400[†]MHz ; 16x DIMM slots
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 SATA3 ports; RAID 0, 1, 5, 10
6. 6x 3.5" Hot-swap SATA3 HDD Bays
7. 650W High-efficiency Power Supply **Gold Level**

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-TT ■ SuperServer 6028R-TT (Black)

Motherboard

Super X10DRi-T

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2600 v4[†]/ v3 family (up to 145W TDP) *
■ Dual Socket R3 (LGA 2011)

Cores / Cache ■ Up to 22 Cores[†] / Up to 55MB[†] Cache

System Bus ■ QPI up to 9.6 GT/s

Note [†] BIOS version 2.0 or above is required

Note * Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory

Memory Capacity ■ 16x 288-pin DDR4 DIMM slots
■ Up to 2TB[†] ECC 3DS LRDIMM, 512GB ECC RDIMM

Memory Type ■ 2400[†]/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

DIMM Sizes ■ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB
■ LRDIMM: 64GB, 32GB
■ 3DS LRDIMM: 128GB

Memory Voltage ■ 1.2 V

Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-823TQ-653LPB

Dimensions and Weight

Width ■ 19" (490mm)

Height ■ 3.5" (89mm)

Depth ■ 27" (680mm)

Package ■ 9.7" (H) x 24" (W) x 28" (D)

Weight ■ Net Weight: 31 lbs (14.2 kg)
■ Gross Weight: 51.5 lbs (23.6 kg)

Available Colors ■ Black

Front Panel

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

LEDs ■ Power status LED
■ HDD activity LED
■ 2x Network activity LEDs
■ System information (overheat/UID) LED

Expansion Slots

PCI-Express ■ 3x PCI-E 3.0 x16 (Low-profile)
■ 3x PCI-E 3.0 x8 (Low-profile)

Drive Bays

Hot-swap ■ 6x 3.5" Hot-swap SATA HDD trays

Backplane

2U SAS/SATA backplane

Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C612 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® 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"> ASPEED AST2400 BMC
Input / Output	
Serial ATA	<ul style="list-style-type: none"> 6x SATA3 (6Gbps) ports 2x SATA3 (6Gbps) ports onboard 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 USB Header: 2x 3.0, 4x 2.0, 1x Type A
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x COM Port
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

System Cooling	
Fans	<ul style="list-style-type: none"> 4x 80cm hot-swap redundant PWM cooling fans
Power Supply	
650W AC-DC High Efficiency Power Supply	
AC Input	<ul style="list-style-type: none"> 100 - 140V, 8-5.2A 180-240V 4.2-3.1A, 50-60Hz
+5V	<ul style="list-style-type: none"> 30 Amp
+5V standby	<ul style="list-style-type: none"> 4 Amp
+12V	<ul style="list-style-type: none"> 100-140Vac 49Amp 180-240Vac 54Amp
-12V	<ul style="list-style-type: none"> 0.5 Amp
+3.3V	<ul style="list-style-type: none"> 25 Amp
Certification	 Gold Certified
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

[See Parts List](#)

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