

SuperServer 6028R-T

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Integrated Board



[Super X10DRi](#)

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 slots
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 SATA3 ports; RAID 0, 1, 5, 10
6. 6x 3.5" Hot-swap SATA3 HDD Bays
7. 650W High-efficiency Power Supply **Gold Level**

Specifications

Product SKUs	
SYS-6028R-T	SuperServer 6028R-T (Black)
Motherboard	
Super X10DRi	
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 Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
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 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 ▪ Intel® i350 Dual Port Gigabit Ethernet ▪ Virtual Machine Device Queues reduce I/O overhead

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	<ul style="list-style-type: none"> ▪ Net Weight: 31 lbs (14.2 kg) ▪ Gross Weight: 51.5 lbs (23.6 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	▪ 6x 3.5" Hot-swap SATA HDD trays
Backplane	
2U SAS/SATA backplane	
System Cooling	
Fans	▪ 4x 80cm hot-swap redundant PWM cooling fans
Power Supply	
650W AC-DC High Efficiency Power Supply	

Network Controllers	<ul style="list-style-type: none"> 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"> 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 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 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
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 - 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

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