

# SuperServer 6028R-TR

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## Integrated Board



[Super X10DRi](#)



## 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     

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

## Specifications

Product SKUs	
<b>SYS-6028R-TR</b>	SuperServer 6028R-TR (Black)
Motherboard	
<a href="#">Super X10DRi</a>	
Processor/Cache	
<b>CPU</b>	<ul style="list-style-type: none"> <li>▪ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP **)</li> <li>▪ Dual Socket R3 (LGA 2011)</li> </ul>
<b>Cores / Cache</b>	▪ Up to 18 Cores / Up to 45MB Cache
<b>System Bus</b>	▪ QPI up to 9.6 GT/s
<b>Note</b>	** Please contact your Supermicro sales representative for additional details.
System Memory	
<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>▪ 16x 288-pin DDR4 DIMM slots</li> <li>▪ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM</li> </ul>
<b>Memory Type</b>	▪ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>▪ RDIMM: 32GB, 16GB, 8GB, 4GB</li> <li>▪ LRDIMM: 64GB, 32GB</li> </ul>
<b>Memory Voltage</b>	▪ 1.2 V
<b>Error Detection</b>	▪ Corrects single-bit errors
On-Board Devices	
<b>Chipset</b>	▪ Intel® C612 Express chipset
<b>SATA</b>	▪ SATA 3.0 (6Gbps) with RAID 0, 1, 5, 10
<b>IPMI</b>	<ul style="list-style-type: none"> <li>▪ Support for Intelligent Platform Management Interface v.2.0</li> <li>▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>▪ ASPEED AST2400 BMC</li> </ul>
	▪ Intel® i350 Dual Port Gigabit Ethernet

Chassis	
<b>Form Factor</b>	▪ 2U Rackmount
<b>Model</b>	▪ <a href="#">CSE-825TQ-R740LPB</a>
Dimensions and Weight	
<b>Width</b>	▪ 17.2" (437mm)
<b>Height</b>	▪ 3.5" (89mm)
<b>Depth</b>	▪ 25.5" (647mm)
<b>Package</b>	▪ 26" (H) x 11" (W) x 34.5" (D)
<b>Weight</b>	<ul style="list-style-type: none"> <li>▪ Net Weight: 35.5 lbs (16 kg)</li> <li>▪ Gross Weight: 69 lbs (31.2 kg)</li> </ul>
<b>Available Colors</b>	▪ Black
Front Panel	
<b>Buttons</b>	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> <li>▪ UID button</li> </ul>
<b>LEDs</b>	<ul style="list-style-type: none"> <li>▪ Power status LED</li> <li>▪ HDD activity LED</li> <li>▪ 2x Network activity LEDs</li> <li>▪ System information (overheat/UID) LED</li> </ul>
Expansion Slots	
<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>▪ 3x PCI-E 3.0 x16 (Low-profile)</li> <li>▪ 3x PCI-E 3.0 x8 (Low-profile)</li> </ul>
Drive Bays	
<b>Hot-swap</b>	▪ 8x 3.5" Hot-swap SATA HDD trays
Backplane	
2U SAS/SATA backplane	
System Cooling	
<b>Fans</b>	▪ 3x 80x80x38mm Counter-rotating PWM fans

<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>
<b>Input / Output</b>	
<b>Serial ATA</b>	<ul style="list-style-type: none"> <li>8x SATA3 (6Gbps) ports</li> <li>2x SATA3 powered ports that support SATA DOM</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>Rear USB: 2x USB 3.0 + 2x USB 2.0</li> <li>Front USB: 2x USB 2.0</li> <li>USB Header: 2x 3.0, 2x 2.0, 1x Type A</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>2x Fast UART 16550 serial</li> <li>2x COM Ports (1 rear, 1 header)</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) ports</li> </ul>
<b>Management</b>	
<b>Software</b>	<ul style="list-style-type: none"> <li>SuperDoctor® 5</li> <li>Watch Dog</li> <li>NMI, SPM, SUM</li> <li>IPMI 2.0</li> <li>Intel Node Manager</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>ACPI / APM Power Management</li> <li>Power-on mode for AC power recovery</li> </ul>

<b>Power Supply with Power Distributor</b>	
740W (1+1) Redundant high-efficiency power supply with PMBus	
<b>AC Input</b>	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz, 9-3.5 Amp</li> </ul>
<b>DC Output</b>	<ul style="list-style-type: none"> <li>4 Amp @ +5V standby</li> <li>61.7 Amp @ +12V</li> </ul>
<b>Certification</b>	 <b>Platinum Certified</b> <a href="#">[ Test Report ]</a>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI® BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> </ul>
<b>Operating Environment / Compliance</b>	
<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

### Parts List

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