

# SuperServer 6028R-TDWNR

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Available Colors: Black     



### Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. 8x 3.5" Hot-swap SATA3 + 4x 2.5" NVMe drive bays
3. Up to 1TB ECC DDR4 2133MHz; 16x DIMM sockets
4. 1x PCI-E 3.0 x16 (FHHL), 2x PCI-E 3.0 x8 (FHHL), and 1x PCI-E 3.0 (LP)
5. Intel® i350 Dual port GbE LAN
6. Integrated IPMI 2.0 and KVM with Dedicated LAN
7. I/O ports: 1x VGA, 2x USB 3.0, 2x USB 2.0 (rear)
8. 920W Redundant Power Supplies **Platinum Level (94%+)**



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-TDWNR</b>	SuperServer 6028R-TDWNR (Black)
Motherboard	
<b>Super X10DDW-iN</b>	
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>	<ul style="list-style-type: none"> <li>SATA3 (6Gbps); RAID 0, 1, 5, 10</li> <li>Support for Intelligent Platform Management Interface v.2.0</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® i350 Dual Port 10GBase-T</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 1GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>

Chassis	
<b>Form Factor</b>	2U Rackmount
<b>Model</b>	CSE-826BAC4-R920WB
Dimensions and Weight	
<b>Width</b>	17.2" (437mm)
<b>Height</b>	3.5" (89mm)
<b>Depth</b>	25.5" (648mm)
<b>Package</b>	11.4" (H) x 26.7" (W) x 34.5" (D)
<b>Weight</b>	<ul style="list-style-type: none"> <li>Gross Weight: 64 lbs (29.0 kg)</li> <li>Net Weight: 36 lbs (16.3 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>Universal Information (UID) LED</li> </ul>
Expansion Slots	
<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x16 slot (Full-height Half-length)</li> <li>2 PCI-E 3.0 x8 slots (Full-height Half-length)</li> <li>1 PCI-E 3.0 slot (Low-profile)</li> </ul> <p>(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and AOC Support for details.)</p>
Drive Bays	
<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>8x 3.5" Hot-swap SATA3 drive trays</li> <li>4x 2.5" NVMe drive trays</li> </ul>
Backplane	
1x 2U SAS backplane w/ Enclosure Management (SAS support requires optional SAS controller)	

	<ul style="list-style-type: none"> <li>1x Realtek RTL8211E PHY (dedicated IPMI)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>8x SATA 3.0 ports (6Gbps)</li> </ul>
<b>NVMe</b>	<ul style="list-style-type: none"> <li>4x Internal NVMe ports</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>2x USB 3.0 ports (rear)</li> <li>2x USB 2.0 ports (rear)</li> </ul>
<b>Video</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>1x Fast UART 16550 port / 1 Header</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) ports</li> </ul>

<b>System Cooling</b>	
<b>Fans</b>	<ul style="list-style-type: none"> <li>3x 80mm 7,000 RPM 4-pin PWM fans</li> </ul>
<b>Power Supply with Power Distributor</b>	
920W high-efficiency AC-DC Redundant power supplies with PMBus and I2C	
<b>AC Input</b>	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz, 11-4.5 Amp</li> </ul>
<b>DC Output</b>	<ul style="list-style-type: none"> <li>4 Amp @ +5V standby</li> <li>75 Amp @ +12V</li> </ul>
<b>With Power Distributor</b>	<ul style="list-style-type: none"> <li>+5V: 45 Amp</li> <li>+3.3V: 24 Amp</li> <li>-12V: 0.6 Amp</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 2.2</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>BIOS resume hot keys</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> <li>UEFI</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: 5°C to 40°C (41°F to 104°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

[See Parts List](#)

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