

## SuperServer 6028R-WTR

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## Integrated Board



Super X10DRW-i



## Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 family; QPI up to 9.6GT/s
2. 8x 3.5" Hot-swap SAS/SATA HDD bays for Customizable Storage
2. Up to 2TB<sup>†</sup> ECC 3DS LRDIMM , up to DDR4- 2400<sup>†</sup>MHz ; 16x DIMM slots
4. Riser card support up to:  
4x PCI-E 3.0 x8 (2 FHFL, 2 FHHL)  
2x PCI-E 3.0 (Low-profile) slots
5. Intel® i350 Dual port GbE LAN
6. Integrated IPMI 2.0 and KVM with Dedicated LAN
7. I/O ports: 2x SuperDOM, 1x VGA, 2x COM, TPM 1.2, 6x USB 3.0 (4 rear, 2 via header)
8. 740W 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	
SYS-6028R-WTR	■ SuperServer 6028R-WTR (Black)
Motherboard	
Super X10DRW-i	
Processor/Cache	
CPU	■ Intel® Xeon® processor E5-2600 v4 <sup>†</sup> / v3 family (up to 145W TDP) * ■ Dual Socket R3 (LGA 2011)
Cores / Cache	■ Up to 22 Cores <sup>†</sup> / Up to 55MB <sup>†</sup> Cache
System Bus	■ QPI up to 9.6 GT/s
Note	<sup>†</sup> 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 <sup>†</sup> ECC 3DS LRDIMM, 512GB ECC RDIMM
Memory Type	■ 2400 <sup>†</sup> /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
Error Detection	■ Corrects single-bit errors
On-Board Devices	
Chipset	■ Intel® C612 chipset
SATA	■ SATA3 (6Gbps); RAID 0, 1, 5, 10
IPMI	■ 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	■ Intel® i350 Dual Port Gigabit Ethernet Controller ■ Virtual Machine Device Queues reduce I/O

Chassis	
Form Factor	■ 2U Rackmount
Model	■ CSE-825TQ-R740WB
Dimensions and Weight	
Width	■ 17.2" (437mm)
Height	■ 3.5" (89mm)
Depth	■ 25.5" (648mm)
Weight	■ Net Weight: 35 lbs (15.9 kg) ■ Gross Weight: 62 lbs (28.1 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 ■ Universal Information (UID) LED
Expansion Slots	
PCI-Express	■ 4x PCI-E 3.0 x8 slots (2x Full-height Full-length, 2x Full-height Half-length) ■ 2x PCI-E 3.0 slots (Low-profile) ■ <a href="#">U10 AOC Compatibility Matrix</a>  (Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and <a href="#">AOC Support</a> for details.)
Drive Bays	
Hot-swap	■ 8x 3.5" Hot-swap SAS / SATA HDD trays (ready for PCI-E storage controller card)
Backplane	
1x 2U SAS backplane w/ Enclosure Management (SAS support requires optional SAS controller)	
Peripheral Drives	
DVD-ROM	■ Slim DVD-ROM drive (optional)
System Cooling	

<b>Controllers</b>	<ul style="list-style-type: none"> <li>overhead</li> <li>Supports 1GBASE-T, RJ45 output</li> <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>SAS/SATA</b>	<ul style="list-style-type: none"> <li>Customizable storage</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>6x USB 3.0 ports (4 rear + 2 via header)</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>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>	
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>	<div>  <div> <b>Platinum Certified</b>  [ <a href="#">Test Report</a> ] </div> </div>
<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: 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

[See Parts List](#)