

SuperServer 6028R-WTR

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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 SAS/SATA HDD bays for Customizable Storage
3. Up to 1TB ECC DDR4, up to 2133MHz ; 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%+)**

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	
SYS-6028R-WTR	SuperServer 6028R-WTR (Black)
Motherboard	
Super X10DRW-i	
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: 64GB, 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	▪ SATA3 (6Gbps); 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

Chassis	
Form Factor	▪ 2U Rackmount
Model	▪ CSE-825TQ-R740WB
Dimensions and Weight	
Width	▪ 17.2" (437mm)
Height	▪ 3.5" (89mm)
Depth	▪ 25.5" (648mm)
Gross Weight	▪ 52 lbs (23.6kg)
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 ▪ Universal Information (UID) LED
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> ▪ 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) ▪ UIO AOC Compatibility Matrix <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	
Hot-swap	▪ 8x 3.5" Hot-swap SAS / SATA HDD trays (ready for PCI-E storage controller card)

	<ul style="list-style-type: none"> and KVM-over-LAN support ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Dual Port Gigabit Ethernet Controller Virtual Machine Device Queues reduce I/O overhead Supports 1GBASE-T, RJ45 output 1x Realtek RTL8211E PHY (dedicated IPMI)
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Input / Output	
SAS/SATA	<ul style="list-style-type: none"> Customizable storage
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"> 6x USB 3.0 ports (4 rear + 2 via header)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port / 1 Header
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports

Backplane	
1x 2U SAS backplane w/ Enclosure Management (SAS support requires optional SAS controller)	
Peripheral Drives	
DVD-ROM	<ul style="list-style-type: none"> Slim DVD-ROM drive (optional)
System Cooling	
Fans	<ul style="list-style-type: none"> 3x 80mm 7,000 RPM 4-pin PWM fans
Power Supply with Power Distributor	
740W (1+1) Redundant high-efficiency power supply with PMBus	
AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 9-3.5 Amp
DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 61.7 Amp @ +12V
Certification	 Platinum Certified [Test Report]
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 2.2 ACPI 1.0 / 2.0 / 3.0 / 4.0 BIOS rescue hot keys USB Keyboard support SMBIOS 2.3 UEFI
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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