

SuperServer 5028R-WR



Available Colors:

Black



Key Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Intel® C612 Express chipset
3. 8x 3.5" Hot-swap SATA3 drive bays; optional fixed drive bays
4. Up to 512GB ECC DDR4 2133MHz LRDIMM; 8x DIMM sockets
5. 5x PCI-E 3.0 x8 slots via riser card
6. Intel® i350-AM2 Dual port GbE LAN
7. 1x Slim DVD ROM drive bay (option)
8. 2x USB 2.0 ports, 2x USB 3.0 ports
9. 500W Redundant Power Supplies **Platinum Level (94%+)**
10. 3x middle cooling fans

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

Specifications

Product SKUs

- SYS-5028R-WR** ■ SuperServer 5028R-WR (**Black**)

Motherboard

Super X10SRW-F

Processor

- CPU**
- Intel® Xeon® processor E5-2600/1600 v3 family (up to 145W TDP **)
 - Single Socket R3 (LGA 2011)

- Core / Cache**
- Up to 18 Cores / Up to 45MB Cache

- Note**
- ** Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory

- Memory Capacity**
- 8x 288-pin DDR4 DIMM sockets
 - Up to 512GB DDR4 ECC LRDIMM
 - Up to 256GB DDR4 ECC RDIMM
- Memory Type**
- 2133/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM/LRDIMM) / 284-pin (UDIMM) gold-plated DIMMs
- DIMM Sizes**
- RDIMM: 32GB, 16GB, 8GB, 4GB

Chassis

- Form Factor**
- 2U Rackmount

- Model**
- **CSE-825TQ-R500WB**

Dimensions

- Height**
- 3.5" (88.9mm)
- Width**
- 17.2" (437mm)
- Depth**
- 25.5" (648mm)
- Package**
- 11" (H) x 26.5" (W) x 34.5" (D)
- Weight**
- Gross Weight: 59 lbs (26.7 kg)
 - Net Weight: 34 lbs (15.4 kg)

- Available Colors**
- Black

Front Panel



- Buttons**
- Power On/Off button
 - System Reset button

- LEDs**
- Power LED
 - Hard drive activity LED
 - 2x Network activity LEDs
 - System Overheat LED

Expansion Slots

- PCI-Express**
- 4x PCI-E 3.0 x8 Full-height Full-length slots
 - 1x PCI-E 3.0 x8 Low-profile Half-length slot

Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C612 Express chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) via C612 controller RAID 0, 1, 10 support
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
Network Controllers	<ul style="list-style-type: none"> Intel® i350-AM2 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> 8x SATA3 (6Gbps) ports
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"> 2x USB 2.0 ports (front) 2x USB 2.0, 3.0 ports (rear)
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 serial port 1x internal header

Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 8x 3.5" Hot-swap SATA3 drive bays
Backplane	
SAS/SATA HDD Backplane (SAS support requires optional SAS controller)	
System Cooling	
Fans	<ul style="list-style-type: none"> 3x 80x80x38mm 7K RPM Cooling fans
Power Supply with Power Distributor	
500W high-efficiency redundant power supplies with PMBus	
AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 6.1-2.6 Amp
DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 41.7 Amp @ +12V
With Power Distributor	<ul style="list-style-type: none"> +5V: 30 Amp +3.3V: 24 Amp -12V: 0.6 Amp
Certification	  Platinum Certified [Test Report]
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 8MB SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> DMI 2.3 PCI 2.3 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3
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

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SRW-F	1	Super X10SRW-F Motherboard
	CSE-825TQ-R500WB	1	2U Chassis
Backplane	BPN-SAS-825TQ	1	BPN-SAS-825TQ-O-P
Cable 1	CBL-0044L	0	SATA CABLE 61CM FLAT S-S PBF. 26AWG flat
Cable 2	CBL-0157L-01	2	8 pin to 8 pin ribbon SGPIO cable with tube, 61.5cm, PBF
Cable 3	CBL-0201L	1	SATA SET OF 4 51/47/41/37CM. S-RA. 26AWG
Cable 4	CBL-0082L	0	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 5	CBL-0231L	2	70CM SATA ROUND S-RA PBF. 26AWG
Cable 6	CBL-0228L	1	55CM SATA ROUND S-RA PBF 26AWG
Cable 7	CBL-0230L	1	65CM SATA ROUND S-RA PBF. 26AWG
Cable 8	CBL-0296L	0	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Peripheral Drive	DVM-PNSC-DVD-SBT2	0	BLACK PANASONIC SLIM DVD ROM SATA DRIVE ROHS
Peripheral Drive	DVM-TEAC-DVD-SBT3	0	BLACK TEAC SLIM DVD ROM SATA DRIVE ROHS,HF,RoHS/REACH,PBF
Riser Card	RSC-R2UW-4E8	1	RSC-R2UW-4E8-O-P
Riser Card	RSC-R2UW-E8R-UP	1	2U RHS WIO Riser Card with a PCI-E x8 for UP MBs (Rev 1.02)
Heatsink / Retention	SNK-P0048PS	1	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-501P-1R	2	500W 1U Platinum redundant power supply