

SuperServer 5028R-WR



Integrated Board



Super X10SRW-F

Available Colors:

Black



[▶ Drivers & Utilities](#)
[▶ BIOS](#)
[▶ IPMI](#)
[▶ Tested Memory](#)
[▶ Manuals](#)
[▶ OS Certification Matrix](#)
[▶ Quick-References Guide](#)
[▶ Drive Options](#)

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

Key Features

5x PCI-E x8, 8x 3.5" Drives Cost-effective, Single Socket

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. 8x 3.5" Hot-swap SATA3 drive bays; optional fixed drive bays
4. Up to **1TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 8 DIMM slots
5. 5 PCI-E 3.0 x8 slots via riser card
6. Intel® i350-AM2 Dual port GbE LAN
7. 1 Slim DVD ROM drive bay (option)
8. 2 USB 2.0 + 2 USB 3.0 ports (rear), 2 USB 2.0 ports (front)
9. 500W Redundant Power Supplies **Platinum Level (94%+)**
10. 3 middle cooling fans

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

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

Motherboard

Super X10SRW-F

Processor

CPU ■ Intel® Xeon® processor E5-2600 v4[†]/ v3, E5-1600 v4[†]/ v3 family (up to 145W TDP **)
■ Single Socket R3 (LGA 2011)

Core / Cache ■ Up to **22 Cores**[†] / Up to **55MB**[†] Cache

Note [†] BIOS version 2.0 or above is required

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

System Memory

Memory Capacity ■ 8x 288-pin DDR4 DIMM slots
■ Up to 1TB ECC 3DS LRDIMM
■ Up to 512GB ECC LRDIMM
■ Up to 256GB ECC RDIMM

Memory Type ■ **2400**[†]/ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs

DIMM Sizes ■ 3DS LRDIMM: 128GB
■ LRDIMM: 64GB, 32GB
■ RDIMM: 32GB, 16GB, 8GB, 4GB

Memory Voltage ■ 1.2 V

Error Detection ■ Corrects single-bit errors
■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C612 chipset

SATA ■ SATA3 (6Gbps) via C612 controller
■ RAID 0, 1, 10 support

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 Controllers ■ 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
■ 1 Realtek RTL8201N PHY (dedicated IPMI)

Video ■ ASPEED AST2400 BMC

Input / Output

SATA ■ 8 SATA3 (6Gbps) ports

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
■ Network activity LEDs
■ System Information LED

Expansion Slots

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

Drive Bays

Hot-swap ■ 8 Hot-swap 3.5" SATA3 drive bays

Backplane

SAS/SATA HDD Backplane
(SAS support requires optional SAS controller)

System Cooling

Fans ■ 3x 80x80x38mm 7K RPM Cooling fans

Power Supply with Power Distributor

500W high-efficiency redundant power supplies with PMBus

AC Input ■ 100-240 V, 50-60 Hz, 6.1-2.6 Amp

DC Output ■ 4 Amp @ +5V standby
■ 41.7 Amp @ +12V

With Power Distributor ■ +5V: 30 Amp
■ +3.3V: 24 Amp
■ -12V: 0.6 Amp

Certification



Platinum Certified
[[Test Report](#)]

System BIOS

BIOS Type ■ 8MB SPI Flash EEPROM with AMI BIOS

LAN	<ul style="list-style-type: none">■ 2 RJ45 Gigabit Ethernet LAN ports■ 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none">■ 2 USB 2.0 ports (front)■ 2 USB 2.0 + 2 USB 3.0 ports (rear)
Video	<ul style="list-style-type: none">■ 1 VGA port
Serial Port / Header	<ul style="list-style-type: none">■ 1 Fast UART 16550 serial port■ 1 internal header

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
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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	8-port 2U TQ (W/ AMI 9072) backplane, support up to 8x 3.5-inch SAS/SATA HDD
Cable 1	CBL-0157L-01	2	CBL,SGPIO,2X4F TO 2X4F,P2.54,RIBBON IN RND TUBE,60CM,28AWG
Cable 2	CBL-0201L	1	SATA,INT,ROUND,SET OF 4,ST-RA 51/47/41/37CM,26AWG
Cable 3	CBL-0230L	1	SATA,INT,ROUND,ST-RA,65CM,26AWG
Cable 4	CBL-0231L	2	SATA,INT,ROUND,ST-RA,70CM,26AWG
Cable 5	CBL-0228L	1	SATA,INT,ROUND,ST-RA,55CM,26AWG
Drive Tray(s)	MCP-220-82504-0B	1	Black USB tray for SC825,836
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1606-QRG	1	SYS-5028R-WR, QRG,HF,RoHS/REACH
Riser Card	RSC-R2UW-E8R-UP	1	2U RHS WIO Riser Card with a PCI-E x8 for UP MBs
Riser Card	RSC-R2UW-4E8	1	2U LHS WIO Riser card with four PCI-E x4 slots
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	1U 500W Platinum redundant power supply

Optional Parts List

	Part Number	Qty	Description
3.5" to 2.5" Converter Tray	MCP-220-00043-0N	-	Black Hot-swap Gen-4 2.5" to 3.5" HDD tray
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5	1	TEAC slim DVD-ROM SATA drive
	DVM-PLDS-DVDRW-SBT5	1	PHILIPS slim DVD-RW SATA drive
DVD-ROM Accessory	MCP-220-81502-0N	1	Slim SATA DVD mounting kit
Cable for internal HDD	CBL-0484L	2	55cm 30AWG SATA straight to straight cable
	CBI-0289L	1	Y split, big 4 pin to two RA SATA power extension 30cm
Storage Controller card & cable	AOC-S3108L-H8iR & 2x CBL-SAST-0556	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3108L-H8iR-16DD & 2x CBL-SAST-0556	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, 16HDD RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3008L-L8i & 2x CBL-SAST-0556	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD, RAID 0, 1, 10
	AOC-S3008L-L8e & 2x CBL-SAST-0556	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
	AOC-S3008L-L8e & 2x CBL-SAST-0556	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
CacheVault	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108 with SuperCap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N	-	CacheVault for Broadcom 3108 with SuperCap mounting bracket for internal fixed bay
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350-AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGF-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel X710-BM2
	AOC-STG-B4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S
	AOC-STGS-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2
	AOC-S25G-b2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom BCM57414
	AOC-S25G-m2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Mellanox CX-4 LX
Front Bezels	MCP-210-82503-0B	1	Black front bezels
TPM security module	AOM-TPM-9665V	1	TPM 2.0, vertical form factor
	AOM-TPM-9655V	1	TPM 1.2, vertical form factor

Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • <i>eStore</i>	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)