

# SuperServer 2027R-WRF

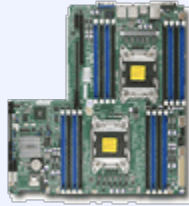


Available Colors:

Black



## Integrated Board



**Super X9DRW-iE**

## Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM sockets
3. 4x PCI-E 3.0 x8 slots (2x Full-height Full-length, 2x Full-height Half-length)
4. Intel® i350 Dual port Gigabit Ethernet Controller; 2x LAN ports
5. 16x Hot-swap 2.5" SAS/SATA HDD bays for Customizable Storage
6. 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-2027R-WRF ■ SuperServer 2027R-WRF (Black)

### Motherboard

Super X9DRW-iE

### Processor/Cache

CPU ■ Dual Socket R (LGA 2011)  
 ■ Intel® Xeon® processor E5-2600 (up to 135W TDP)

Note † BIOS version 3.0 or above is required

Cache ■ Up to 30MB

System Bus ■ QPI up to 8 GT/s

### System Memory

Memory Capacity ■ 16x 240-pin DDR3 DIMM sockets  
 ■ Up to 1TB DDR3 ECC LRDIMM  
 ■ Up to 512GB DDR3 ECC Registered memory (RDIMM)  
 ■ Up to 192GB DDR3 ECC Un-Buffered memory (UDIMM)

Memory Type ■ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

### Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-213A-R740WB

### Dimensions

Width ■ 17.2" (437mm)

Height ■ 3.5" (89mm)

Depth ■ 24.8" (630mm)

Gross Weight ■ 50 lbs (22.7kg)

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

■ 4 PCI-E 3.0 x8 slots (2x Full-height Full-length, 2x Full-height Half-length)

DIMM Sizes	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB, 2GB, 1GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C602 Chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>SATA 3.0 6Gbps with RAID 0, 1</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Renesas SH7757 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® i350 Dual Port Gigabit Ethernet Controller</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8211E PHY (dedicated IPMI)</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>G200 (Renesas SH7757 BMC)</li> </ul>
<b>Input / Output</b>	
SAS/SATA	<ul style="list-style-type: none"> <li>Customizable storage</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>6x USB 2.0 ports total (4x rear + 2x via header)</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1x Fast UART 16550 port / 1 Header</li> </ul>

PCI-Express	<ul style="list-style-type: none"> <li><a href="#">UIO AOC Compatibility Matrix</a></li> </ul> <p>(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.)</p>
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<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>16 Hot-swap 2.5" SAS / SATA HDD trays (ready for PCI-E storage controller card)</li> </ul>

<b>Backplane</b>	
2U Direct Attached Backplane, features:	
<ul style="list-style-type: none"> <li>3Gb/6Gb support</li> <li>SES-2 Enclosure Management Support</li> <li>SAS/SATA support</li> <li>Four SFF 8087 connectors</li> </ul>	
(SAS support requires optional SAS controller)	

<b>Peripheral Drives</b>	
DVD-ROM	<ul style="list-style-type: none"> <li>Slim DVD-ROM drive (optional)</li> </ul>

<b>System Cooling</b>	
Fans	<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	
AC Input	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz, 9-3.5 Amp</li> </ul>
DC Output	<ul style="list-style-type: none"> <li>4 Amp @ +5V standby</li> <li>61.7 Amp @ +12V</li> </ul>
With Power Distributor	<ul style="list-style-type: none"> <li>+5V: 45 Amp</li> <li>+3.3V: 24 Amp</li> <li>-12V: 0.6 Amp</li> </ul>

Certification	 Platinum Certified [ <a href="#">Test Report</a> ]
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<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
BIOS Features	<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 resuce hot keys</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> <li>UEFI</li> </ul>

<b>Operating Environment / Compliance</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 5°C to 35°C (41°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 60°C (-40°F to 140°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

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DRW-iF	1	Super X9DRW-iF Motherboard
	CSE-213A-R740WB	1	2U Chassis
Backplane	BPN-SAS-213A	1	Sup 16x2.5" hot-swap SAS/SATA hdd; iPass ácon
Cable 1	CBL-0281L-01	4	lpass to lpass cable 75cm 30AWG
Riser Card	RSC-R2UW-4E8-O-P	1	RSC-R2UW-4E8-O-P
Heatsink / Retention	SNK-P0048PS	2	2U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Power Supply	PWS-741P-1R	2	1U740W Platinum Redundant Single Output
Rail Set	MCP-290-00053-0N	1 set	Rail set, quick/quick, default for 2,3U 17.2"W
Optional Parts List			
	Part Number	Qty	Description
Internal 3.5" HDD Tray Included (5.25" slot)	MCP-220-00009-01	1	Black 5.25" drive tray w/o rail
Internal 2.5" HDD Tray Included (COM slot)	MCP-220-00023-01	1	Black USB dummy tray support 1x 2.5" slim HDD
DVD-ROM / DVD-RW	DVM-PNSC-DVD-SBT1 DVM-TEAC-DVD-SBT2 DVM-PLDS-DVDRW-SBT2 DVM-TEAC-DVDRW-SBT1	1	SLIM DVD-ROM / DVD-RW SATA DRIVE
DVD-ROM Accessory	MCP-220-81502-0N	1	Slim SATA DVD kit
USB/COM Port Tray	MCP-220-00007-01	1	Black USB/COM port tray
Internal 2.5" HDD Tray (DVD Slot)	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" HDD
Cable for on-board SATA2 connection (8 ports)	CBL-0116L	1	IPASS TO 4 SATA 50CM CROSS OVER
	CBL-0108L-02	1	IPASS TO IPASS 39CM
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® i350AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel® i350
	AOC-SG-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® 82575EB
	AOC-SG-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel® 82576EB
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom® BCM57840S
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel® X540
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel® 82598EB
Storage Controller Card(s)	AOC-S3008L-L8e	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 122HDD, HBA
	AOC-S3008L-L8i	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 63HDD, RAID 0,1,1E
	AOC-S3108L-H8iR	-	Standard LP, 8 internal ports (12Gb/s) Gen-3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S2308L-L8e	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 122HDD, HBA
	AOC-S2308L-L8i	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 63HDD, RAID 0,1,1E
	AOC-S2208L-H8iR	-	Standard LP, 8 internal ports (6Gb/s) Gen-3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-SAS2LP-MV8	-	Standard LP, 8 internal ports (6Gb/s) Gen-2, HBA
	AOC-SAS2LP-H4iR	-	Standard LP, 4 internal & 4 external ports (6Gb/s) Gen-2, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-SAS2LP-H8iR	-	Standard LP, 8 internal ports (6Gb/s) Gen-2, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60