

# SuperServer 1028R-WMRT



## Integrated Board



## Super X10DRW-ET

Views: | [Angled View](#) | [Top View](#) |  
| [Front View](#) | [Rear View](#) |

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

## Key Features

### Short Depth 16.9", WIO

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 family; QPI up to 9.6GT/s
2. Up to **2TB<sup>†</sup>** ECC 3DS LRDIMM , up to DDR4- **2400<sup>†</sup>**MHz ; 16x DIMM slots
3. 2x PCI-E 3.0 x16 (FHHL) slots
4. 2x 2.5" Fixed drive bays w/ bracket
5. Intel® X540 Dual port 10GBase-T
6. Integrated IPMI 2.0 and KVM with Dedicated LAN
7. I/O ports: 2x SuperDOM, 1x VGA, 1x COM, 2x USB 3.0, 4x USB 2.0
8. 400W Redundant Power Supplies **Gold Level**; BBP option

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

# Specifications

## Chassis

**Form Factor** ■ 1U Rackmount

**Model** ■ **CSE-514-R400W**

## Dimensions

**Height** ■ 1.7" (43mm)

**Width** ■ 17.2" (437mm)

**Depth** ■ 16.9" (429mm)

**Weight** ■ Net Weight: 16.5 lbs (7.48 kg)  
■ Gross Weight: 27 lbs (12.25 kg)

## 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** ■ 2x PCI-E 3.0 x16 Full-height, Half-length slots

## Drive Bays

**Internal** ■ 2x 2.5" Fixed drive bays with bracket

## System Cooling

**Fans** ■ 4x 40x56mm PWM fan; 2x fans for AOC cooling

## Power Supply

400W Redundant Power Supplies w/Power Distributor, PMBus 1.2, I<sup>2</sup>C, and PFC

**AC Input** ■ 100-240V, 50-60Hz, 6-3A

**DC Output** ■ +5V standby: 3A  
■ +12V: 33A

**DC Output With Power Distributor** ■ +5V: 25A  
■ +3.3V: 25A  
■ -12V: 0.6A

**Certification**



**Gold Certified**

## System BIOS

**BIOS Type** ■ 128Mb SPI Flash EEPROM with AMI BIOS

**BIOS Features** ■ Plug and Play (PnP)  
■ PCI 2.3  
■ ACPI 1.0 / 2.0 / 3.0 / 4.0  
■ USB Keyboard support  
■ SMBIOS 2.7.1  
■ UEFI 2.3.1

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

**SYS-1028R-WMRT** ■ SuperServer 1028R-WMRT

#### Motherboard

**Super X10DRW-ET**

#### 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: 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 Controllers** ■ Intel® X540 Dual Port 10GBase-T  
■ Virtual Machine Device Queues reduce I/O overhead  
■ Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output  
■ 1x Realtek RTL8211E PHY (dedicated IPMI)

**Video** ■ ASPEED AST2400 BMC

#### Input / Output

**Serial ATA** ■ 10x SATA3 (6Gbps) ports

**LAN** ■ 2x RJ45 10GBase-T ports  
■ 1x RJ45 Dedicated IPMI LAN port

**USB** ■ 2x USB 3.0 ports (via header)  
■ 4x USB 2.0 ports (rear)

**VGA** ■ 1x VGA port

**Serial Port / Header** ■ 1x Header

#### Operating Environment / Compliance

**RoHS** ■ RoHS Compliant

**Environmental Spec.** ■ 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)



## Список деталей

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10DRW-ET	1	Super X10DRW-ET Motherboard
	CSE-514-R400W	1	1U Chassis
<b>Cable 1</b>	CBL-0484L	2	SATA,INT,ROUND,ST-ST,55CM,30AWG
<b>Cable 2</b>	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
<b>Label</b>	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
<b>Manual</b>	MNL-1723-QRG	1	QRG for 1028R-WMR(T),HF,RoHS/REACH
<b>Riser Card</b>	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
<b>Heatsink / Retention</b>	SNK-P0047PSC	1	1U Passive Front CPU Heat Sink w/ a Side Air Channel for X9, X10 Systems Equipped with a Narrow ILM MB
<b>Heatsink / Retention</b>	SNK-P0057PS	1	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	PWS-407P-1R	2	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH

### Optional Parts List

	Part Number	Qty	Description
<b>AOC Fans</b>	FAN-0156L4	2	40x40x56 mm 13K-11K RPM Counter-rotating Fan
<b>Global Services &amp; Support</b>	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	<a href="#">SFT-OOB-LIC</a> • <a href="#">eStore</a>	1	OOB Management Package (per node license)
<b>Software</b>	<a href="#">SFT-DCMS-Single</a>	1	DataCenter Management Package (per node license)