

# SuperServer 1028R-WMR



## Key Features

- Short Depth 16.9", WIO

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 1TB ECC DDR4 2133MHz; 16x DIMM slots
3. 2x PCI-E 3.0 x16 (FHHL) slots
4. 2x 2.5" Fixed drive bays w/ bracket
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, 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 or optional parts, Please refer to parts list for standard parts included.

## Specifications

### Product SKUs

SYS-1028R-WMR	▪ SuperServer 1028R-WMR
---------------	-------------------------

### Motherboard

Super X10DRW-E

### Processor/Cache

CPU	<ul style="list-style-type: none"> <li>▪ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP) *</li> <li>▪ Dual Socket R3 (LGA 2011)</li> </ul>
-----	--

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"> <li>▪ 16x 288-pin DDR4 DIMM slots</li> <li>▪ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM</li> </ul>
Memory Type	▪ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

### Chassis

Form Factor	▪ 1U Rackmount
Model	▪ <u>CSE-514-R400W</u>

### Dimensions

Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 16.9" (429mm)
Weight	<ul style="list-style-type: none"> <li>▪ Net Weight: 16.5 lbs (7.48 kg)</li> <li>▪ Gross Weight: 27 lbs (12.25 kg)</li> </ul>

### Front Panel

Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>▪ Power LED</li> <li>▪ Hard drive activity LED</li> <li>▪ 2x Network activity LEDs</li> <li>▪ System Overheat LED</li> </ul>

### 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
----------	---

<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>RDIMM: 32GB, 16GB, 8GB, 4GB</li> <li>LRDIMM: 64GB, 32GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> </ul>
<b>On-Board Devices</b>	
<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C612 chipset</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA3 (6Gbps); RAID 0, 1, 5, 10</li> </ul>
<b>IPMI</b>	<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>ASPEED AST2400 BMC</li> </ul>
<b>Network Controllers</b>	<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>
<b>Video</b>	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>
<b>Input / Output</b>	
<b>Serial ATA</b>	<ul style="list-style-type: none"> <li>10x SATA3 (6Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x USB 3.0 ports (via header)</li> <li>4x USB 2.0 ports (rear)</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1x Header</li> </ul>

<b>Backplane</b>	SAS/SATA HDD Backplane (SAS support requires optional SAS controller)
<b>System Cooling</b>	
<b>Fans</b>	<ul style="list-style-type: none"> <li>4x 40x56mm PWM fan; 2x fans for AOC cooling</li> </ul>
<b>Power Supply</b>	
400W (1+1) Redundant SuperCompact Short-depth AC-DC Gold-level power supply with PMBus and I2C	
<b>AC Input</b>	<ul style="list-style-type: none"> <li>400W: 100-240 V, 50-60 Hz, 6-3 Amp</li> </ul>
<b>DC Output +5V standby</b>	<ul style="list-style-type: none"> <li>3 Amp</li> </ul>
<b>DC Output +12V</b>	<ul style="list-style-type: none"> <li>33 Amp</li> </ul>
<b>With Power Distributor</b>	<ul style="list-style-type: none"> <li>+5V: 25 Amp</li> <li>+3.3V: 25 Amp</li> <li>-12V: 0.6 Amp</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> </ul>
<b>Operating Environment / Compliance</b>	
<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°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 - (Items Included)**

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10DRW-E	1	Super X10DRW-E Motherboard
	CSE-514-R400W	1	1U Chassis
<b>Cable 1</b>	CBL-0484L	2	55cm 30AWG SATA S-S cable
<b>Cable 2</b>	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
<b>Riser Card</b>	RSC-R1UW-2E16	1	RSC-R1UW-2E16-O-P
<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>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>Power Supply</b>	PWS-406P-1R	2	1U 400W Redundant Short Depth Power Supply

**Optional Parts List**

	Part Number	Qty	Description
<b>AOC Fans</b>	FAN-0156L4	2	40x40x56 mm 13K-11K RPM Counter-rotating Fan
<b>Onsite Service Program</b>	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
<b>Onsite Service Program</b>	OSNBD3/2/1	-	3/2/1-year onsite NBD service
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)