

SuperServer 1028R-WMR



Integrated Board



Super X10DRW-E

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Key Features

Short Depth 16.9", WIO

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Up to **2TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 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 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, I²C, 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

SYS-1028R-WMR ■ SuperServer 1028R-WMR

Motherboard

Super X10DRW-E

Processor/Cache

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

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

System Bus ■ QPI up to 9.6 GT/s

Note [†] 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[†] ECC 3DS LRDIMM, 512GB ECC RDIMM

Memory Type ■ **2400**[†]/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® i350 Dual Port Gigabit Ethernet Controller
■ Virtual Machine Device Queues reduce I/O overhead
■ Supports 10BASE-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 Gigabit Ethernet LAN 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
Motherboard / Chassis	MBD-X10DRW-E	1	Super X10DRW-E Motherboard
	CSE-514-R400W	1	1U Chassis
Cable 1	CBL-0082L	1	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable 2	CBL-0484L	2	SATA,INT,ROUND,ST-ST,55CM,30AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1723-QRG	1	QRG for 1028R-WMR(T),HF,RoHS/REACH
Riser Card	RSC-R1UW-2E16	1	1U LHS WIO Riser card with two PCI-E x16 slots
Heatsink / Retention	SNK-P0047PSC	1	1U Passive Front CPU Heat Sink w/ a Side Air Channel for X9, X10 Systems Equipped with a Narrow ILM MB
Heatsink / Retention	SNK-P0057PS	1	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	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
AOC Fans	FAN-0156L4	2	40x40x56 mm 13K-11K RPM Counter-rotating Fan
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)