

## Supermicro SDR-1028R-WTRT 1U Rackmount Server

- Intel<sup>®</sup> Xeon<sup>®</sup> E5-2600 v3 processor • Up to 1TB DDR4 2133MHz ECC memory • 10x 2.5" hot-swap SATA/SAS HDD bays • Energy efficient power supply

The Supermicro SDR-1028R-WC1R 1U rackmount server is specifically designed for IT professionals who require high performance, efficiency, scalability and flexibility. Optimized for datacenter, enterprise, cloud computing and HPC environments, each server is configured with Intel<sup>®</sup> Xeon<sup>®</sup> E5-2600 v3 series processors and features DDR4 ECC memory, enterprise-class SATA/SAS hard drives and redundant power supplies.



### Features

#### Intel<sup>®</sup> Xeon<sup>®</sup> Processors

The Intel Xeon E5-2600 v3 processor family delivers the scalable performance and reliability needed for an ever-changing server environment.

#### DDR4 2133MHz ECC Memory

By correcting 99.9% of memory errors that may occur, ECC memory ensures data safety and keeps systems running. Additionally, DDR4 memory features up to 50% increase in both bandwidth and power efficiency.

#### 10x SAS/SATA HDDs

Enterprise SAS/SATA storage provides the high capacities required for storage demanding applications and are designed for 24x7 server environments.

#### Energy Efficient Power Supply

The platinum-certified power supply features 94% efficiency, making this a cost-effective solution for the server itself as well as overall datacenter cooling costs.

## SPECIFICATION HIGHLIGHTS

### Processor

2x Intel<sup>®</sup> Xeon<sup>®</sup> E5-2600 v3 family [supports up to 18 cores and 45MB of cache per CPU]

### Storage

10x 2.5" hot swap SAS/SATA HDD bays

### Form Factor

1U Rackmount

### Networking

Intel X540 dual port 10GBase-T

### Chipset

Intel<sup>®</sup> C612 Chipset

### Memory

Up to 1TB ECC DDR4 2133MHz; 16 DIMM sockets

### Power Supply

700W redundant

## Contact Information

**Servers Direct** • www.ServersDirect.com • 800-576-7931

**SDR-1028R-WTRT  
SPECIFICATIONS**

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**Motherboard**

Super X10DRW-iT

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**Processor / Cache**

CPU: Intel® Xeon® Processor E5-2600 v3 family [up to 145W TDP] | Dual Socket R3 [LGA 2011]

Cores/Cache: Up to 18 cores / up to 45MB cache

System Bus: QPI up to 9.6 GT/s

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**System Memory**

Memory Capacity: 16x 288-pin DDR4 DIMM slots | Up to 1TB ECC LRDIMM, 512GB ECC RDIMM

Memory Type: 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

DIMM Sizes: RDIMM: 32GB, 16GB, 8GB, 4GB | LRDIMM: 64GB, 32GB

Memory Voltage: 1.2V

Error Detection: Corrects single-bit errors

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**On-Board Devices**

Chipset: Intel® C612 Chipset

SATA: I-SATA 4 & I-SATA 5 support SATA DOM | 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

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**Input/Output**

Serial ATA: 10x SATA3 (6Gbps)

LAN: 2x RJ45 10GBase-T ports | 1x RJ45 Dedicated IPMI LAN port

USB: 6x USB 3.0 ports [4 rear + 2 via header]

Video: 1x VGA port

Serial Port / Header: 1x Fast UART 16550 header

DOM: 2x SuperDOM [Disk on module] ports

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**PC Health Monitoring**

Voltage: Monitors for CPU cores, +1.8V, +3.3V, +5, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages | 5+1 phase-switching voltage regulator

FAN: 6x 4-pin fan headers [up to 6 fans] | 6x fans with tachometer monitoring | Status monitor for speed control | Pulse Width Modulated [PWM] fan connectors

Temperature: Monitoring for CPU and chassis environment | CPU thermal trip support | Thermal Control for 8x Fan Connectors | Thermal monitor 2 [TM2] support | PECI

LED: CPU / System Overheat LED | Suspend static indicator LED | UID/Remote UID

Other Features: Chassis intrusion detection | Chassis intrusion header | SDDC Support | RoHS

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**Chassis**

Form Factor: 1U rackmount

Model: CSE-116TQ-R706WB

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**SDR-1028R-WTRT  
SPECIFICATIONS**

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**Dimensions and Weight**

Width: 17.2" [437 mm]  
Height: 1.7" [43 mm]  
Depth: 23.5" [597 mm]  
Gross Weight: 46 lbs. [20.9 kg]  
Available Colors: Black

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**Front Panel**

Buttons: Power On/Off button | UID button  
LEDs: Power status LED | HDD activity LED | 2x Network activity LEDs | Universal Information (UID) LED

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**Expansion Slots**

PCI-Express: 2x PCI-E 3.0 x16 full-height, half-length slots

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**Drive Bays**

Hot swap: 10x 2.5" hot-swap SAS/SATA HDD trays [connected to onboard storage controller]

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**Backplane**

SAS/SATA HDD backplane

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**System Cooling**

Fans: 5x 4cm heavy-duty counter-rotating fans w/ air shroud and optimal fan speed control

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**Power Supply**

700W/750W redundant AC-DC high-efficiency power supply with PMBus and 12C

AC Voltage: 700W: 100-140V, 50-60Hz | 750W: 200-240V, 50-60Hz

DC Output +5V Standby: 3 Amp

DC Output +12V: 700W: 58 Amp @ 100-140V | 750W: 62 Amp @ 200-240V

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**System BIOS**

BIOS Type: 128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features: Plug and Play [PnP] | APM 1.2 | PCI 2.3 | ACPI 1.0 / 2.0 / 3.0 / 4.0 | USB keyboard support | SMBIOS 2.7.1 | UEFI 2.3.1

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**Management**

Software: SuperDoctor<sup>®</sup> 5 | Watch Dog | NMI | IPMI 2.0 | Intel Node Manager

Power Configurations: ACPI / APM Power Management | Power-on mode for AC power recovery

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**Operating Environment / Compliance**

RoHS: RoHS Compliant

Environmental Specifications: 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]

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