

## Supermicro SDR-6028TP-HC1FR 2U 4-Node Twin Pro

- 2U rackmount • Each node supports 2x Intel<sup>®</sup> Xeon<sup>®</sup> E5-2600 v3 processors, up to 1TB DDR4 LRDIMM or 512GB RDIMM 2133MHz ECC memory, and 3x 3.5" hot-swap SAS/SATA HDD bays

The Supermicro SDR-6028TP-HC1FR rackmount is the latest server to feature 4 nodes in a 2U form factor. Each node supports dual Intel<sup>®</sup> Xeon<sup>®</sup> E5-2600 v3 series CPUs, 3x 3.5" SAS/SATA HDD bays, dual Gbe LAN ports and up to 1TB of ECC memory. This 2U Twin Pro server also features high storage and networking I/O, making this server ideal for HPC, Medical Imaging, Oil and Gas Exploration, Quantum Chemistry, Financial Simulation, Genomics and Astrophysics.



### Features

#### 2U 4-Node Server

Supermicro's proven Twin technology provides the greatest and highest throughput storage, networking, I/O, memory and processing capabilities in a 2U form factor, allowing customers to further optimize Supermicro solutions to solve their most challenging IT requirements.

#### 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.

#### SAS/SATA Storage

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

## SPECIFICATION HIGHLIGHTS

### Form Factor

2U Rackmount

### Power Supply

2000W redundant power supplies

### EACH NODE FEATURES:

#### Processor

2 x Intel<sup>®</sup> Xeon<sup>®</sup>  
E5-2600 v3 series

#### Memory

16x DIMM sockets supporting up  
to 1TB LRDIMM or 512GB RDIMM of  
ECC DDR4 2133MHz memory

#### Storage

3x 3.5" hot-swap  
SAS/SATA HDD bays

#### Chipset

Intel C612 Chipset

## Contact Information

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

**SDR-6028TP-HC1FR  
SPECIFICATIONS**

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**Motherboard**

Super X10DRT-PIBE

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**Processor / Cache (per node)**

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 (per node)**

Memory Capacity: 16x 288-pin DDR4 DIMM slots | Up to 1TB ECC LRDIMM or 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

Infiniband: Mellanox ConnectX-3 FDR Infiniband 56Gbps Controller

SAS: LSI 3108 SAS3 [12Gbps] controller, RAID 0, 1, 5, 10 support | Optical SuperCap

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-AM2 Dual Port Gigabit Ethernet | Virtual Machine Device Queues reduce I/O overhead | Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output | 1x Realtek RTL8201N PHY [dedicated IPMI]

Graphics: Aspeed AST2400 BMC

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**Input/Output (per node)**

SAS: 3x SAS3 [12Gbps] ports

LAN: 2x RJ45 Gigabit Ethernet LAN ports | 1x RJ45 Dedicated IPMI LAN port

Infiniband: 1x external QSFP Infiniband connector

USB: 2x USB 3.0 ports total (2x rear)

VGA: 1x VGA port

Serial Port / Header: 1x Fast UART 16550 port / 1 Header

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**Chassis**

Form Factor: 2U rackmount

Model: CSE-827HQ +-R2K02B

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**Dimensions and Weight**

Width: 17.25" [438 mm]

Height: 3.47" [88 mm]

Depth: 30" [762 mm]

Gross Weight: 85 lbs. [38.6 kg]

Available Colors: Black

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**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

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**SDR-6028TP-HC1FR  
SPECIFICATIONS**

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**Expansion Slots (per node)**

PCI-Express: 1x PCI-E 3.0 x16 low profile slot | 1x "0 slot" (x 16) | Both CPUs need to be installed for full access to PCI-E slots

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**Drive Bays (per node)**

Hot-swap: 3x 3.5" hot-swap SAS/SATA HDD trays

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**System Cooling**

Fans: 4x 8cm heavy duty PWM fans with optimal fan speed control

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**Switching Power Supply**

2000W Redundant Power Supplies with 12C & PMBus

AC Input: 1100W Output @ 100-120V, 12.7-10.5A, 50-60Hz | 1400W Output @ 120-140V, 13.5-11.5A, 50-60Hz | 1800W Output @ 200-220V, 10.0-9.5A, 50-60Hz | 1980W Output @ 220-230V, 10.0-9.8A, 50-60Hz | 2000W Output @ 230-240V, 10.0-9.8A, 50-60Hz

5Vsb: 4A

I<sup>2</sup>C Remote Monitoring: FRU Data / SMBus / PMBus

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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 2.2 | ACPI 1.0 / 2.0 | USB keyboard support | SMBIOS 2.3 | UEFI

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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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