

Supermicro SDR-2028TP-DNC 2U 2-Node Twin Pro

- 2U rackmount • Each node supports 2x Intel® Xeon® E5-2600 v3 processors, up to 1TB DDR4 LRDIMM or 512GB RDIMM 2133MHz ECC memory, 4x NVMe and 8x 2.5" hot-swap SAS drives

The Supermicro SDR-2028TP-DNC rackmount is the latest family of servers to feature 2 nodes in a 2U form factor to deliver improved throughput and latency. Each node supports dual Intel® Xeon® E5-2600 v3 series CPUs, 4x NVMe and 8x 2.5" SAS drives, dual Gbe LAN ports and up to 1TB of ECC memory. Available in 3 models of network connectivity, including DNCFR, DNCR and DNCTR, each 2U Twin Pro server also features high storage and networking I/O, making this server ideal for compute intensive, data center, enterprise server, financial analysis, HPC and mission critical applications.

Features

2U 2-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® Xeon® 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 Storage

Enterprise SAS 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

1600W redundant power supplies

EACH NODE FEATURES:

Processor

2 x Intel® Xeon® E5-2600 v3 series

Memory

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

Storage

4x NVMe and 8x 2.5" hot-swap SAS drives

Chipset

Intel C612 Chipset

Contact Information

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

**SDR-2028TP-DNC
SPECIFICATIONS**

Motherboard

Super X10DRT-PIBF / X10DRT-P / X10DRT-PT

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

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

On-Board Devices (per node)

Chipset: Intel® C612 Chipset

Infiniband: Mellanox ConnectX-3 FDR Infiniband 56Gbps Controller [DNCFR only]

SAS: LSI 3008 SAS3 [12Gbps] controller, RAID 0, 1, 10 support | Note: In order to support NVMe drives, both CPU sockets must be populated

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

Network connectivity choices include:

Infiniband: Mellanox ConnectX-3 FDR Infiniband 56Gbps Controller [DNCFR]

Intel® i350-AM2 Dual Port Gigabit Ethernet [DNCFR]

Intel® i350 Dual Port Gigabit Ethernet [DNCFR]

Intel® X540 Dual Port 10GBase-T [DNCFR]

Graphics: Aspeed AST2400 BMC

Input/Output (per node)

SAS: 8x SAS3 [12Gbps] ports

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

LAN: 2x RJ45 10GBase-T ports [DNCFR]

Infiniband: 1x external QSFP Infiniband connector [only applies to model DNCFR]

USB: 2x USB 3.0 ports total [2x rear]

VGA: 1x VGA port

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

Others: 1x mSATA [full size] and one SATADOM support on the daughter card | 1x SATADOM support on the motherboard

Chassis

Form Factor: 2U rackmount

Model: CSE-217HD+-R1K68B

**SDR-2028TP-DNC
SPECIFICATIONS**

Dimensions and Weight

Width: 17.25" [438 mm]

Height: 3.47" [88 mm]

Depth: 28.75" [730 mm]

Weight: Gross Weight: 85 lbs. [38.6 kg] | Net Weight: 66 lbs. [29.9 kg]

Available Colors: Black

Front Panel

Buttons: Power On/Off button | UID button

LEDs: Power status LED | HDD activity LED | 2x Network activity LEDs | Universal Information (UID) LED

Expansion Slots (per node)

PCI-Express: 1x PCI-E 3.0 x16 slot | 1x PCI-E 3.0 x8 slot

Drive Bays (per node)

Hot-swap: 8x 2.5" hot-swap SAS HDD bays | 4x 2.5" hot-swap bays support NVMe

System Cooling

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

Power Supply

1600W Titanium Level [96%] High-Efficiency Redundant Single Output Power Supplies

AC Input: 800W Output @ 100-140V, 7-10A, 50-60Hz | 1600W Output @ 180-240V, 8-11A, 50-60Hz

DC Output: 800W: +12V/67A, +5Vsb/1A | 1600W: +12V/133A, +5sb/1A

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

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]
