

SuperServer 1028R-MCTR

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Integrated Board



Super X10DRL-CT

Available Colors:

Black

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Key Features

- **Data Center Optimized**
- **2x 10GBase-T Ports**
- **Short Depth**

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family; QPI up to 9.6GT/s

2. Up to 1TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz ; 8x DIMM slots

3. 1x PCI-E 3.0 x8 (FHHL) slot

4. 8x 2.5" Hot-swap SAS3/SATA3 Drive Bays

5. Intel® i210 Dual-Port 1GbE LAN
Intel® X540 Dual-Port 10GBase-T LAN

6. SAS3 (12Gbps) via Broadcom 3108

7. I/O ports: 1x VGA, 2x USB 3.0

8. 600W Redundant High-Efficiency Power Supplies
Platinum Level Certified

9. Optional 2x 2.5" NVMe Drives Support

10. 2x SuperDOM (Disk on Module) ports

11. IPMI 2.0 + KVM with Dedicated LAN



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-MCTR	■ SuperServer 1028R-MCTR (Black)
Motherboard	
Super X10DRL-CT	
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	■ 8x 288-pin DDR4 DIMM slots ■ Up to 1TB† ECC 3DS LRDIMM, 512GB ECC RDIMM
Memory Type	■ 2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	■ RDIMM: 64GB, 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
SAS	■ SAS3 (12Gbps) via Broadcom 3108 ■ RAID 0, 1, 5, 6, 10, 50, 60 support ■ 2GB DDR3 Cache
SATA	■ SATA3 (6Gbps); RAID 0, 1, 5, 10 ■ Support for Intelligent Platform Management Interface v.2.0

Chassis	
Form Factor	■ 1U Rackmount
Model	■ CSE-113MFAC2-R606CB
Dimensions and Weight	
Width	■ 17.2" (437mm)
Height	■ 1.7" (43mm)
Depth	■ 19.98" (508mm)
Package	■ 24" (W) x 8.3" (H) x 30" (L)
Gross Weight	■ 40 lbs (18.15 kg)
Available Colors	■ Black
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
Expansion Slots	
PCI-Express	■ 1x PCI-E 3.0 x8 (FHHL) slot
Drive Bays	
Hot-swap	■ 8x 2.5" Hot-swap SAS3/SATA3 Drive Bays
Peripheral Drives	
DVD-ROM	■ 1x Slim DVD-ROM drive (optional)
Backplane	
- SAS3/SATA3 Backplane - Optional 2x 2.5" NVMe drives	
System Cooling	
Fans	■ 4x 4cm fans with optimal fan speed control
Power Supply with Power Distributor	
600W Redundant High-Efficiency Power Supplies w/Power Distributor, PMBus 1.2, I ² C, and PFC	
AC Input	■ 100-240V, 50-60Hz, 7.5-3.0A
DC Output	■ +5V standby: 3A ■ +12V: 50A

IPMI	<ul style="list-style-type: none"> ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ■ ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> ■ Intel® X540 10GBase-T controller ■ Intel® i210 Gigabit Ethernet controller ■ Supports 10GBASE-T, 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ■ 1x Realtek RTL8211E PHY (dedicated IPMI)
Video	<ul style="list-style-type: none"> ■ ASPEED AST2400 BMC
Input / Output	
SAS	<ul style="list-style-type: none"> ■ 8x SAS3 (12Gbps) ports
SATA	<ul style="list-style-type: none"> ■ 6x SATA3 (6Gbps) ports ■ I-SATA 4 & I-SATA 5 support SATA DOM
LAN	<ul style="list-style-type: none"> ■ 2x RJ45 10GBase-T LAN ports ■ 2x RJ45 Gigabit Ethernet LAN ports ■ 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ■ 4x USB 3.0 ports (2 rear, 2 headers) ■ 3x USB 2.0 ports (2 headers, 1 Type A)
Video	<ul style="list-style-type: none"> ■ 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> ■ 1x COM port (header)
DOM	<ul style="list-style-type: none"> ■ 2x SuperDOM (Disk on Module) ports
Management	
Software	<ul style="list-style-type: none"> ■ IPMI 2.0 ■ Intel® Node Manager 3.0 ■ SuperDoctor® 5 ■ SSM ■ SPM ■ SUM ■ Watch Dog
Power Configurations	<ul style="list-style-type: none"> ■ ACPI Power Management ■ Power-on mode for AC power recovery

Certification <div>   Platinum Certified [Test Report] </div>	
System BIOS	
BIOS Type	<ul style="list-style-type: none"> ■ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> ■ Plug and Play (PnP) ■ PCI 2.3 ■ ACPI 3.0 / 4.0 ■ USB Keyboard support ■ SMBIOS 2.7.1 ■ UEFI 2.3.1
Operating Environment / Compliance	
RoHS	<ul style="list-style-type: none"> ■ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> ■ 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)

Parts List

[See Parts List](#)

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