

# SuperServer 1028R-MCT



## Integrated Board



## Super X10DRL-CT

### Available Colors:

Black



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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

## Key Features

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

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 family; QPI up to 9.6GT/s
2. Up to **1TB<sup>†</sup>** ECC 3DS LRDIMM , up to DDR4- **2400<sup>†</sup>**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 High-Efficiency Power Supply  
**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

# Specifications

**Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.**

**SYS-1028R-MCT** ■ SuperServer 1028R-MCT (Black)

## Motherboard

### Super X10DRL-CT

## Processor/Cache

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

**Cores / Cache** ■ Up to **22 Cores**<sup>†</sup> / Up to **55MB**<sup>†</sup> Cache

**System Bus** ■ QPI up to 9.6 GT/s

**Note** <sup>†</sup> 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<sup>†</sup> ECC 3DS LRDIMM, 512GB ECC RDIMM

**Memory Type** ■ **2400**<sup>†</sup>/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

**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 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** ■ ASPEED AST2400 BMC

## Input / Output

**SAS** ■ 8x SAS3 (12Gbps) ports

## Chassis

**Form Factor** ■ 1U Rackmount

**Model** ■ **CSE-113MFAC2-605CB**

## 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** ■ 38 lbs (17.24 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

600W High-Efficiency Power Supply w/PMBus 1.2, I<sup>2</sup>C, PFC, and Digital Switching

**AC Input** ■ 100-240V, 50-60Hz

**DC Output** ■ +3.3V: 15A  
■ +5V: 18A  
■ +5V standby: 3A  
■ +12V: 49A  
■ -12V: 0.5A

## Certification



**Platinum Certified**  
[ [Test Report](#) ]

## System BIOS

<b>SATA</b>	<ul style="list-style-type: none"> <li>6x SATA3 (6Gbps) ports</li> <li>I-SATA 4 &amp; I-SATA 5 support SATA DOM</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 10GBase-T LAN ports</li> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>4x USB 3.0 ports (2 rear, 2 headers)</li> <li>3x USB 2.0 ports (2 headers, 1 Type A)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1x COM port (header)</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) ports</li> </ul>
<b>Management</b>	
<b>Software</b>	<ul style="list-style-type: none"> <li>IPMI 2.0</li> <li>Intel® Node Manager 3.0</li> <li>SuperDoctor® 5</li> <li>SSM</li> <li>SPM</li> <li>SUM</li> <li>Watch Dog</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>ACPI Power Management</li> <li>Power-on mode for AC power recovery</li> </ul>

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.3</li> <li>ACPI 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> </ul>

#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Список деталей

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10DRL-CT	1	Super X10DRL-CT Motherboard
	CSE-113MFAC2-605CB	1	1U Chassis
<b>Air Shroud</b>	MCP-310-19015-0N	1	SC813M,SC113M, DP X9DRL-EF/ X9DRL-7F/ X10DRL-i, X9/X10 mylar air shroud, 12
<b>Backplane</b>	BPN-SAS3-113A-N2	1	8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices
<b>Cable 1</b>	CBL-SAST-0550	1	MINI SAS HD,12G,INT,25CM,30AWG
<b>Cable 2</b>	CBL-SAST-0568	1	MINI SAS HD,12G,INT,35CM,30AWG
<b>Manual</b>	MNL-1703-QRG	1	SYS-1028R-MCT, QRG,HF,RoHS/REACH
<b>Parts</b>	MCP-260-00061-0N	1	1U I/O Shield for X9DB3/X9DBi/X9DB3-F/X9DBi-F/X10DRL-CT with EMI Gasket,RoHS/REACH
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8
<b>Heatsink / Retention</b>	SNK-P0047PD	2	1U Passive Custom CPU Heat Sink for X9DRL, X10DRL Related Systems
<b>Power Supply</b>	PWS-605P-1H	1	1U 600W Multi Output Power Supply PMbus

### Optional Parts List

	Part Number	Qty	Description
<b>Cable</b>	CBL-SAST-0929	1	OcuLink v 1.0 source to MiniSAS HD,INT,PCIe, 57CM,34AWG
<b>Cable</b>	CBL-SAST-0972	1	OcuLink v 1.0 source to MiniSAS HD,INT,PCIe, 70CM,34AWG
<b>NVMe AOC card</b>	AOC-SLG3-2E4T	1	2 Port NVMe PCIe X8 Retimer,HF,RoHS
<b>Network Card(s)</b>	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® i350AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel® i350
	AOC-SG-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel® 82575EB
	AOC-SG-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel® 82576EB
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom® BCM57840S
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STGN-i1S	-	Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel® 82599ES
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel® X540
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel® 82598EB
<b>DVD-ROM / DVD-RW</b>	DVM-PNSC-DVD-SBT3	-	BLACK PANASONIC SLIM DVD ROM SATA DRIVE
	DVM-TEAC-DVD-SBT3	-	BLACK TEAC SLIM DVD ROM SATA DRIVE
	DVM-PLDS-DVDRW-SBT4	-	PHILIPS SLIM BLACK DVD-RW SATA DRIVE
	DVM-TEAC-DVDRW-SBT2	-	BLACK TEAC SLIM DVD-RW SATA DRIVE
<b>DVD-ROM Accessory</b>	MCP-220-81502-0N	-	Slim SATA DVD kit for SC213,219,813,815,818,819,825,828,829,836,842
<b>CacheVault(s)</b>	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108; Supercap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N	-	CacheVault for Broadcom 3108; Supercap mounting bracket for 2.5" HDD location
<b>Global Services &amp; Support</b>	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
<b>Software</b>	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
<b>Software</b>	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)