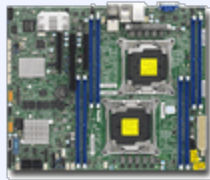


SuperServer 1028R-MCTR



Integrated Board



Super X10DRL-CT

Available Colors:

Black



Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 512GB ECC DDR4 2133MHz; 8x DIMM slots
3. 1x PCI-E 3.0 x8 FHHL Expansion slot
4. 8x 2.5" Hot-swap SAS/SATA HDD bays
5. SAS3 (12Gbps) via LSI 3108
6. Intel® i210 Dual GbE LAN ports; Intel® X540 Dual 10GBase-T ports
7. I/O ports: 2x SuperDOM, 1x VGA, 2x USB 3.0
8. 600W Redundant Power Supplies Platinum Level Certified
9. Optional 2x 2.5" NVMe drives support

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 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
------------	----------------------

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 512GB ECC LRDIMM, 256GB ECC RDIMM
-----------------	---

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

Chassis

Form Factor	▪ 1U Rackmount
Model	▪ CSE-113MFAC2-R606CB

Dimensions and Weight

Width	▪ 17.2" (437mm)
Height	▪ 1.7" (43mm)
Depth	▪ 19.98" (508mm)
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 Full-height, Half-length slot
-------------	---

DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via LSI 3108 RAID 0, 1, 5, 6, 10, 50, 60 support 2GB DDR3 Cache
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1, 5, 10
IPMI	<ul style="list-style-type: none"> 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	<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
Serial ATA	<ul style="list-style-type: none"> 6x SATA3 (6Gbps) ports I-SATA 4 and 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"> 2x USB 3.0 ports (2 rear + 2 via header) 3x USB 2.0 ports (2 via header + 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 (1 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 SPM SUM SuperDoctor® 5 Intel® Node Manager 3.0 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Power-on mode for AC power recovery

Drive Bays	<ul style="list-style-type: none"> 8x 2.5" Hot-swap SAS/SATA HDD trays
Peripheral Drives	
DVD-ROM	<ul style="list-style-type: none"> Slim DVD-ROM drive (optional)
Backplane	
SAS/SATA HDD Backplane	
Optional 2x 2.5" NVMe drives	
System Cooling	
Fans	<ul style="list-style-type: none"> 4x 4cm high performance PWM fans with optimal fan speed control
Power Supply with Power Distributor	
600W high-efficiency redundant power supplies with PMBus	
AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 7.5-3.0 Amp
DC Output	<ul style="list-style-type: none"> 3 Amp @ +5V standby 50 Amp @ +12V
Certification	  Platinum Certified [Test Report]
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

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRL-CT	1	Super X10DRL-CT Motherboard
	CSE-113MFAC2-R606CB	1	1U Chassis
Backplane	BPN-SAS3-113A-N2	1	1U SAS3 6x2.5" SAS3 HDD/SSD and 2x2.5" NVMe/SATA Storage Devices,
			Internal Mini-SAS HD to Mini-SAS HD

Cable 1	CBL-SAST-0568	1	35cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF
Cable 2	CBL-SAST-0550	1	Internal Mini-SAS HD to Mini-SAS HD 25cm,30AWG,HF,RoHS/REACH,PBF
Riser Card	RSC-RR1U-E8-O-P	1	RSC-RR1U-E8 (Rev 4.00)
Heatsink / Retention	SNK-P0047PD	2	1U Passive Custom CPU Heat Sink for X9DRL, X10DRL Related Systems
Power Supply	PWS-606P-1R	2	1U 600W Redundant Short Depth High Efficiency Power Supply
Air Shroud	MCP-310-19015-0N	1	SC813M,SC113M, DP X9DRL-EF/ X9DRL-7F/ X10DRL-i, X9/X10 mylar air shroud, 12"x10" MB,RoHS/REACH
I/O Shield	MCP-260-00061-0N	1	1U I/O Shield for X9DB3/X9DBi/X9DB3-F/X9DBi-F/X10DRL-CT with EMI Gasket,RoHS/REACH
Fan	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
Mounting Rails	MCP-290-00102-0N	1 set	Outer rail, quick-release type, 25.6" to 33.05"
Mounting Rails	MCP-290-00107-0N	1 set	Inner rail, front, short, screw type
Mounting Rails	MCP-290-00110-0N	1 set	Inner rail, extension (quick) for 1U 17.2

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-SAST-0590	1	Internal Mini-SAS HD cable for PCIe SSD NVMe, 12Gb/s, 70cm,30AWG
Cable	CBL-SAST-0658	1	Internal Mini-SAS HD cable for PCIe SSD NVMe, 12Gb/s, 60cm,30AWG
NVMe AOC card	AOC-SLG3-2E4R	1	NVMe AOC by 8
Network Card(s)	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
DVD-ROM / DVD-RW	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
DVD-ROM Accessory	MCP-220-81502-0N	-	Slim SATA DVD kit for SC213,219,813,815,818,819,825,828,829,836,842
Onsite Service Program	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)