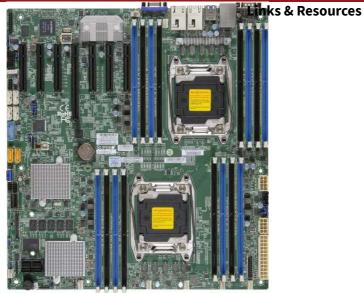
# X10DRH-CT



(https://www.supermicro.com/CDS\_Image/uploads/imagecache/600px\_wide/intel\_motherboard\_active/X10DRH-

#### <u>CT Top 0.jpg)</u> 16 DIMMs 12" x 13"

# **Key Features**

Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family; UPI up to 9.6GT/s Intel® C612 chipset Up to 2TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz; 16 DIMM slots 1 PCI-E 3.0 x16, 6 PCI-E 3.0 x8 slots Intel® X540 Dual port 10GBase-T 10 SATA3 (6Gbps) ports w/ Intel® C612 controller; RAID 0, 1, 5, 10 8 SAS3 (12Gbps) ports w/ Broadcom® 3108 controller (2GB cache); RAID 0, 1, 5, 6, 10, 50, 60 Integrated IPMI 2.0 and KVM with Dedicated LAN 5 USB 3.0 and 4 USB 2.0 ports

# **Specifications**

X10DRH-CT | Motherboards | Products | Super Micro Computer, Inc.

Product SKUs - Discontinued SKU (EOL).	Expansion Slots	
Please contact sales-rep for replacement	PCI-E	
SKUs.	1 PCI-E 3.0 x16,	
MBD-X10DRH-CT	6 PCI-E 3.0 x8	
X10DRH-CT		
	System BIOS	
	BIOS Type	
Physical Stats	128Mb SPI Flash EEPROM with AMI BIOS	
Form Factor	BIOS Features	
E-ATX	Plug and Play (PnP)	
Dimensions	PCI 2.3	
12" x 13" (30.48cm x 33.02cm)	ACPI 1.0 / 2.0 / 3.0 / 4.0	
	USB Keyboard support	
Processor/Cache	SMBIOS 2.7.1	
	UEFI 2.3.1	
Intel® Xeon® processor E5-2600 v3, Intel® Xeon® processor E5-260	0	
/4.	Managana	
Dual Socket R3 (LGA 2011) supported, CPU TDP support Up to 14	Management	
Cores / Cache		
Up to 22 cores † / Up to 55MB† cache	Intel <sup>®</sup> Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor <sup>®</sup> 5, Watchdog	
Note	Power Configurations	
† BIOS version 2.0 or above is required	ACPI Power Management	
Note	Power-on mode for AC power recovery	
** Motherboard supports this maximum TDP. Please verify your system can thermally support.		
	PC Health Monitoring	
System Memory	Voltage	
Memory Capacity	+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 6 Phase-	
1TB Registered ECC RDIMM, DDR4-2133MHz; Up to 2TB 3DS ECC	switching voltage regulator, Memory Voltages, Monitors for CPU Cores	
LRDIMM, in 16 DIMM slots	FAN	
Memory Type	8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer	
2400 <sup>[2</sup> 133/1866/1600 <sup>[2</sup> ] ECC DDR4 SDRAM 72-bit	monitoring, Pulse Width Modulated (PWM) fan connectors, Status	
DIMM Sizes	monitoring for speed control	
RDIMM: 4GB, 8GB, 16GB, 32GB, 64GB LRDIMM: 32GB, 64GB	Temperature	
3DS LRDIMM: 128GB	Monitoring for CPU and chassis environment, CPU thermal trip	
Memory Voltage	support, Thermal Control for 8 Fan Connectors, Thermal Monitor 2 (TM2) support, PECI	
1.2V		
Error Detection	CPU / System Overheat LED, Suspend static indicator LED,	
Corrects single-bit errors	UID/Remote UID	
	Other Features	
On Deand Devices	Chassis intrusion detection, Chassis intrusion header, RoHS, SDDC	
On-Board Devices		
Chipset	Operating Environment	
Intel® C612	Operating Environment	
<b>SATA</b> Intel <sup>®</sup> C612 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Operating Temperature Range	
SAS	10°C - 35°C (50°F - 95°F) Non-Operating Temperature Range	
Broadcom 3108 SAS3 (12Gbps) controller; 2GB cache; HW RAID 0		
5, 6, 10, 50, 60	Operating Relative Humidity Range	
Supports up to 16 devices as default, more HDD devices support	<sup>is</sup> 8% - 90% (non-condensing)	
also available as an option *	Non-Operating Relative Humidity Range	
For special SKU, please contact your Supermicro Sales.	5% - 95% (non-condensing)	
AHCI SATA	<	
SATA3 (6Gbps); RAID 0, 1, 5, 10		
SCU SATA		
SATA3 (6Gbps); RAID 0, 1, 5, 10		
IPMI Support for Intelligent Distform Management Interface v 2.0		
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**

Dual LAN with 10GBase-T with Intel® X540 10GbE Controller Single LAN with Virtual Machine Device Queues reduce I/O overhead

Single LAN with Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output

Single LAN with 1 Realtek RTL8211E PHY (dedicated IPMI)

Graphics

Aspeed AST2400 BMC

#### Input / Output

#### SATA

10 SATA3 (6Gbps) port LAN 2 RJ45 10GBase-T ports 1 RJ45 Dedicated IPMI LAN port USB 4 USB 2.0 ports (2 rear + 2 headers)

5 USB 3.0 ports (2 rear + 2 headers + 1 Type A) Video Output

## 1 VGA port

### Serial Port / Header

2 COM Ports (1 rear, 1 header) 2 fast UART 16550 serial **TPM** 

1 TPM Header

## **Parts List**

Parts List (Bulk Package)		
Name Part Number	Qty	Description
Motherboard MBD-X10DRH-CT	1	X10DRH-CT Motherboard
Quick Reference Guide MNL-1628-QRG		Quick Reference Guide
I/O Shield MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket
I/O Cables CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
Optional Parts List		
Name Part Number	Qty	Description
Heat Sink (optional, not included)		CPU Heat Sink reference
TPM security module (optional, not included)AOM-TPM-9655VAOM-TPM-9655H		TPM 1.2 module with Infineon 9655, RoHS/REACH, PBF; Vertical or Horiztonal depends on the server
TPM security module (optional, not included)AOM-TPM-9655V-SAOM-TPM-9655H-S		TPM 1.2 module with Infineon 9655, RoHS/REACH, PBF; Vertical or Horiztonal depends on the server, provision for TXT
TPM security module (optional, not included)AOM-TPM-9665VAOM-TPM-9665H	-	TPM 2.0 module with Infineon 9665, RoHS/REACH, PBF; Vertical or Horizontal depends on the server
TPM security module (optional, not included)AOM-TPM-9665V-SAOM-TPM-9665H-S		TPM 2.0 module with Infineon 9665, RoHS/REACH, PBF; Vertical or Horizontal depends on the server, provisioned for TXT
SuperDOM		Supermicro SATA DOM Solutions [Details]
I/O Cables CBL-0097L-03		30AWG 50CM IPASS TO 4 SATA W/50CM SB, S
SuperCap TFM module BTR-TFM8G-LSICVM02		SuperCap TFM module

Global SKU (/en/products/SMC\_global\_skus)

Chassis (Optimized for X10DRH-CT) Embedded 1U 2U 3U Mid/ Compact SC826BE1C-R920LPB SC835TQ-R920B (/en/products/chassis/2u/826/SC826BE1C-(/en/products/chassis/3U/835/SC835TQ-<u>(/er</u> R920LPB) <u>R920B)</u> 865 SC829HE1C4-R1K02LPB SC836BE1C-R1K03B (/en/products/chassis/2U/829/SC829HE1C4- (/en/products/chassis/3U/836/SC836BE1C- (/er R1K02LPB) R1K03B) 903 2U Heatsink:SNK-P0048PS SC836BE2C-R1K03B (/en/products/chassis/3U/836/SC836BE2C-R1K03B) SC835TQ-R921B (/en/products/chassis/3U/835/SC835TQ-<u>R921B)</u> 2U Heatsink:SNK-P0048PS Þ = Most optimized Chassis for SuperServer Configuration Blue color = Compatible Green color = Global SKU & Compatible Red dot & green color = Optimized + Global SKU Server (Optimized for X10DRH-CT) Server Name SYS-2028R-C1RT (/en/products/system/2U/2028/SYS-2028R-C1RT.cfm) SYS-7048R-C1RT (/en/products/system/4U/7048/SYS-7048R-C1RT.cfm)

SSG-6028R-E1CR12T (/en/products/system/2U/6028/SSG-6028R-E1CR12T.cfm) SSG-6028R-E1CR16T (/en/products/system/2U/6028/SSG-6028R-E1CR16T.cfm)

https://www.supermicro.com/en/products/motherboard/X10DRH-CT