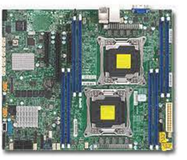
X10DRL-C



Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. Up to **1TB**† ECC 3DS LRDIMM , up to DDR4- **2400**†MHz ; 8x DIMM slots
4. 1x PCI-E 3.0 x16, 2x PCI-E 3.0 x8
5. Intel® i210 Dual GbE LAN ports
6. Integrated IPMI 2.0 and KVM with Dedicated LAN
7. 8x SAS3 (12Gbps) via LSI 3108; H/W RAID 0, 1, 5, 6, 10, 50, 60 SuperCap Option support
8. 6x SATA3 (6Gbps); RAID 0, 1, 5, 10
9. 4x USB 3.0 (2 rear, 2 via header) 3x USB 2.0 (2 via header, 1 Type A)

Links & Resources

- Tested Memory List
- Tested HDD / SSD List
- Tested AOC List
- Motherboard Manual
- Quick Reference Guide
- Update Your BIOS
- BMC/IPMI Firmware
- Download the Latest Drivers and Utilities
- Download Driver CD
- Heat Sink Compatibility
- OS Compatibility
- DP Motherboard Selection Assistant

Specifications

Product SKUs

MBD-X10DRL-C-O	X10DRL-C (Standard Retail Pack)
MBD-X10DRL-C-B	X10DRL-C (Bulk Pack)

Physical Stats

Form Factor	ATX
Dimensions	12" x 10" (30.48cm x 25.4cm)

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	** Motherboard supports this maximum TDP. Please verify your system can thermally support.

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: 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
AHCI SATA	SATA3 (6Gbps); RAID 0, 1, 5, 10
SCU SATA	SATA3 (6Gbps); RAID 0, 1, 5, 10
SAS	LSI 3108 SAS3 (12Gbps) controller; 2GB cache with SuperCap backup option; H/W RAID 0, 1, 5, 6, 10, 50, 60 Supports up to 16 devices as default, more HDD devices support is also available as an option * For special SKU, please contact your Supermicro Sales.
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® i210 Gigabit Ethernet controller Supports 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
SATA	6x SATA3 (6Gbps) ports I-SATA 4 and I-SATA 5 support SATA DOM
LAN	2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	4x USB 3.0 ports (2 rear + 2 via header) 3x USB 2.0 ports (2 via header + 1 Type A)
Video	1x VGA port
Serial Port / Header	1x COM port (1 header)
DOM	2x SuperDOM (Disk on Module) ports 1x SATA DOM power connector
TPM	1x TPM 1.2 20-pin Header

Chassis (Optimized for X10DRL-C)

1U Chassis:	SC813MFTQC-505CB SC514-505 SC514-441 SC514-R400C SC113MFAC2-R606CB SC813MFTQ-R606CB SC813MFTQ-R400CB SC813MFTQ-441CB SC113MFAC2-605CB
2U Chassis:	SC213LT-600LPB SC826TQ-R500LPB SC823TQ-653LPB SC825TQ-563LPB SC213A-R920LPB SC825TQ-R740LPB
3U Chassis:	SC833T-653B SC836TQ-R500B SC836BE1C-R1K03B
Mid/Mini Tower Chassis:	SC732D4F-903B SC732I-500B
4U / Tower Chassis:	SC842TQ-665B SC842TQ-865B
Important Chassis Notes	To support the new generation Intel® Xeon® processor-based motherboards, Revision M chassis is recommended. Please talk to your sales representative for details. Optional 1U I/O shield MCP-260-00061-0N is required to fit with 1U chassis

Expansion Slots

PCI-Express	1x PCI-E 3.0 x16 2x PCI-E 3.0 x8

System BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP) PCI 2.3 ACPI 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1

Management

Software	IPMI 2.0 SPM SUM SuperDoctor® 5 Intel® Node Manager 3.0 Watch Dog
Power Configurations	ACPI Power Management Power-on mode for AC power recovery

PC Health Monitoring

Voltage	Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, Memory Voltages. 5 Phase-switching voltage regulator
FAN	8x 4-pin fan headers (up to 8 fans) 8x fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors Thermal Monitor 2 (TM2) support PECI
LED	CPU / System Overheat LED Suspend static indicator LED UID/Remote UID
Other Features	Chassis intrusion detection Chassis intrusion header RoHS Dual Cooling Zones

Operating Environment

Operating Temperature Range	10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	-40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	5% - 95% (non-condensing)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk)

	Part Number	Qty	Description
X10DRL-C	MBD-X10DRL-C	1	X10DRL-C Motherboard
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00062-1N	1	Standard I/O shield for X10DRL-CT with EMI Gasket

Parts List (retail)

	Part Number	Qty	Description
X10DRL-C	MBD-X10DRL-C	1	X10DRL-C Motherboard
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Cables	CBL-SAST-0531	2	Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s, HF
I/O Shield	MCP-260-00062-1N	1	Standard I/O shield for X10DRL-CT with EMI Gasket
Quick Reference Guide	MNL-1620-QRG	1	Quick Reference Guide

Optional Parts List

	Part Number	Qty	Description
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference
TPM security module (optional, not included)	AOM-TPM-9655V AOM-TPM-9655H	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
	AOM-TPM-9655V-S AOM-TPM-9655H-S	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server, Provisioned for TXT
	AOM-TPM-9665V AOM-TPM-9665H	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
	AOM-TPM-9665V-S AOM-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 Shield	MCP-260-00061-0N	-	1U I/O Shield for X10DRL-CT with EMI Gasket
SuperCap	BTR-TFM8G-LSICVM02	-	SuperCap
SuperCap Bracket	MCP-240-00127-0N	-	SuperCap bracket, include screw, same size as 2.5" HDD

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