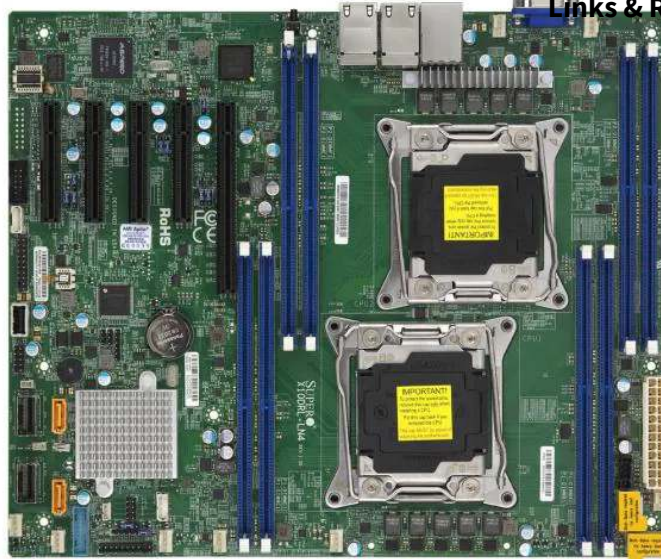


X10DRL-LN4

[Links & Resources](#)



(https://www.supermicro.com/CDS_Image/uploads/imagecache/600px_wide/intel_motherboard_active/x10drl-ln4-front.jpg)

12" x 10"

Quad 1GbE LAN

Key Features

Dual socket R3 (LGA 2011) supports
Intel® Xeon® processor E5-2600 v3/v4
family; QPI up to 9.6GT/s
Intel® C612 chipset
Up to 1TB† ECC 3DS LRDIMM , up to
DDR4- 2400†MHz ; 8 DIMM slots
1 PCI-E 3.0 x16, 2 PCI-E 3.0 x8,
1 PCI-E 3.0 x4 (in x8 slot),
1 PCI-E 2.0 x4 (in x8 slot)
Quad LAN w/ Intel® i350 GbE
Integrated IPMI 2.0 and KVM with
Dedicated LAN
10 SATA3 (6Gbps); RAID 0, 1, 5, 10
2 USB 3.0 (2 via header), 5 USB 2.0
(2 rear, 2 via header, 1 Type A)

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for replacement SKUs.

MBD-X10DRL-LN4
X10DRL-LN4

Expansion Slots

PCI-E

2 PCI-E 3.0 x8,
1 PCI-E 3.0 x16,
1 PCI-E 3.0 x4 (in x8 slot)
1 PCI-E 2.0 x4 (in x8 slot)

Physical Stats

Form Factor

ATX

Dimensions

12" x 10" (30.48cm x 25.4cm)

Processor/Cache

CPU

Intel® Xeon® processor E5-2600 v3, Intel® Xeon® processor E5-2600 v4.

Dual Socket R3 (LGA 2011) supported, CPU TDP support Up to 145W, 1 QPI up to 9.6GT/s

Cores / Cache

Up to 22 cores † / Up to 55MB† cache

Note

† BIOS version 2.0 or above is required

Note

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

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

IPMI2.0, KVM with dedicated LAN, SPM, SUM, SuperDoctor® 5, Watchdog

Power Configurations

ACPI Power Management
Power-on mode for AC power recovery

System Memory

Memory Capacity

Up to 1TB Registered ECC RDIMM, DDR4-2400MHz; Up to 1TB Registered ECC LRDIMM, in 8 DIMM slots

Memory Type

2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

DIMM Sizes

RDIMM: 4GB, 8GB, 16GB, 32GB

LRDIMM: 32GB, 64GB

3DS LRDIMM: 128GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

PC Health Monitoring

Voltage

+12V, +3.3V, +5V, +5V standby, 3.3V standby, 5 Phase-switching voltage regulator, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility

FAN

8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control

Temperature

Monitoring for CPU and chassis environment, CPU thermal trip support, CPU thermal trip support, Thermal Control for 8 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, Dual Cooling Zones, RoHS

On-Board Devices

Chipset

Intel® C612

SATA

Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10

AHCI SATA

SATA3 (6Gbps); RAID 0, 1, 5, 10

SCU 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

Quad LAN with Intel® i350 Gigabit Ethernet Controller

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

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)



Input / Output

SATA

10 SATA3 (6Gbps) port

LAN

4 RJ45 Gigabit Ethernet LAN ports

1 RJ45 Dedicated IPMI LAN port

USB

5 USB 2.0 ports (2 rear + 2 headers + 1 Type A)

2 USB 3.0 ports (2 headers)

Video Output

1 VGA port

Serial Port / Header

1 COM Port (1 header)

TPM

TPM Header

Others

2 SATA DOM power connectors

Parts List

Parts List (Bulk Package)

Name	Part Number	Qty	Description
Motherboard	MBD-X10DRL-LN4	1	X10DRL-LN4 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 Package)

Name	Part Number	Qty	Description
X10DRL-LN4	MBD-X10DRL-LN4	1	X10DRL-LN4 Motherboard
I/O Cable 1	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Cable 2	CBL-0097L-03	2	30AWG 50CM IPASS TO 4 SATA W/50CM SB, S
I/O Shield	MCP-260-00062-1N	1	Standard I/O shield for X10DRL-CT with EMI Gasket
Quick Reference Guide	MNL-1878-QRG	1	Quick Reference Guide

Optional Parts List

Name	Part Number	Qty	Description
Heat Sink	--	--	CPU Heat Sink reference
TPM security module	AOM-TPM-9655V; AOM-TPM-9655H	--	TPM module with Infineon 9655 Vertical or Horizontal depends on the server
TPM security module (optional, not included)	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, provision for TXT
TPM security module (optional, not included)	AOM-TPM-9665V AOM-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-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

Chassis (Optimized for X10DRL-LN4)

Embedded 1U 2U
Compact

3U

Mid/Mini-To

 [SC823TQ-653LPB](#)

[\(/en/products/chassis/2U/823/SC823TQ-653LPB\)](#)

 [SC833T-653B](#)

[\(/en/products/chassis/3U/833/SC833T-653B\)](#)

[SC732I-500B](#)

[\(/en/products/chassis/3U/732/SC732I-500B\)](#)

 [SC825TQ-563LPB](#)


[\(/en/products/chassis/2U/825/SC825TQ-563LPB\)](#)

 [SC825TQ-R740LPB](#)

[\(/en/products/chassis/2U/825/SC825TQ-R740LPB\)](#)

 [SC213LT-600LPB](#)

[\(/en/products/chassis/2U/213/SC213LT-600LPB\)](#)

 = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

[Global SKU \(/en/products/SMC_global_skus\)](#)
