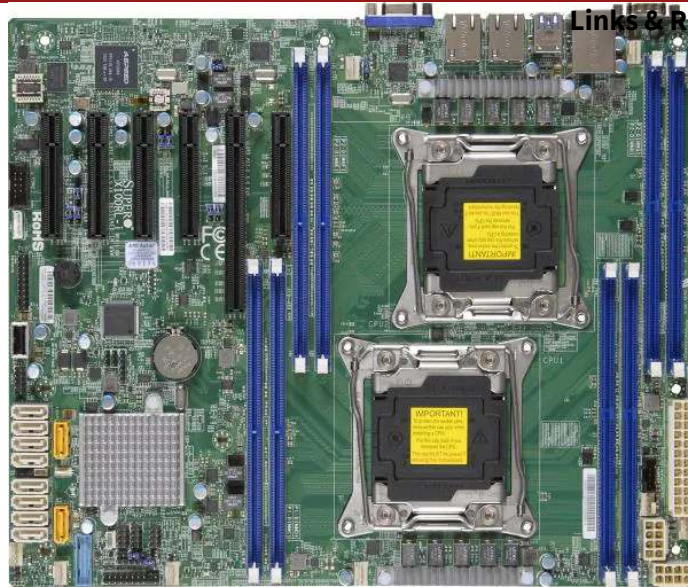


X10DRL-i



[Links & Resources](#)

(https://www.supermicro.com/CDS_Image/uploads/imagecache/600px_wide/intel_motherboard_active/X10DRL-i.jpg).

12" x 10"

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 1TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz ; 8 DIMM slots
- 3 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8), 1 PCI-E 3.0 x16, 1 PCI-E 2.0 x4 (in x8)
- Intel® i210 GbE LAN, 2 ports
- Integrated IPMI 2.0 and KVM with Dedicated LAN
- 10 SATA3 (6Gbps); RAID 0, 1, 5, 10
- 4 USB 3.0 (2 rear, 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-i
X10DRL-i

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 LGA-2011-3 (Socket R3) supported, CPU TDP support
Up to 145W TDP, 1 QPI up to 9.6 GT/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 Memory

Memory Capacity

512GB Registered ECC RDIMM, DDR4-2400MHzUp to 1TB 3DS ECC LRDIMM, in 8 DIMM slots

Memory Type

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

DIMM Sizes

RDIMM: 4GB, 8GB, 16GB, 32GB, 64GB

LRDIMM: 32GB, 64GB

3DS LRDIMM: 128GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

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

Dual LAN with Intel® i210 Gigabit Ethernet Controller

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

Single LAN with Realtek RTL8211E PHY (dedicated IPMI)

Graphics

Aspeed AST2400 BMC

Expansion Slots

PCI-E

3 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)

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

Intel® Node Manager, IPMI2.0, SuperDoctor® 5, Watchdog

Power Configurations

ACPI Power Management

Power-on mode for AC power recovery

PC Health Monitoring

Voltage

+12V, +3.3V, +5V, +5V standby, 5 Phase-switching voltage regulator, Memory Voltages

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, 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

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) ports

LAN

2 RJ45 Gigabit Ethernet LAN ports

1 RJ45 Dedicated IPMI LAN port

USB

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

4 USB 3.0 ports (2 rear + 2 via headers)

Video Output

1 VGA port

Serial Port / Header

2 COM Ports (1 rear, 1 header)

2 fast UART 16550 serial

TPM

TPM Header

Parts List

Parts List (Bulk Package)

Name	Part Number	Qty	Description
X10DRL-i	MBD-X10DRL-i	1	X10DRL-i Motherboard
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for socket R server MB with Gasket

Parts List (Retail Package)

Name	Part Number	Qty	Description
X10DRL-i	MBD-X10DRL-i	1	X10DRL-i Motherboard
I/O Cables	CBL-0044L	6	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for socket R server MB with Gasket

Optional Parts List









Name	Part Number	Qty	Description
Heat Sink	--	--	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
SuperDOM	--	--	Supermicro SATA DOM Solutions
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


Chassis (Optimized for X10DRL-i)

Embedded 1U
Compact

2U

3U

 SC813MFTQ-R400CB (/en/products/chassis/1U/813/SC813MFTQ-R400CB)	 SC823TQ-653LPB (/en/products/chassis/2U/823/SC823TQ-653LPB)	 SC836R500B (/en/products/chassis/2U/836/SC836R500B)
 SC813MFTQ-R606CB (/en/products/chassis/1U/813/SC813MFTQ-R606CB)	 SC826TQ-R500LPB (/en/products/chassis/2U/826/SC826TQ-R500LPB)	 SC833653B (/en/products/chassis/2U/833/SC833653B)
 SC813MFTQ-441CB (/en/products/chassis/1U/813/SC813MFTQ-441CB)	 SC213LT-600LPB (/en/products/chassis/2U/213/SC213LT-600LPB)	
 SC514-505 (/en/products/chassis/1U/514/SC514-505)	 SC825TQ-563LPB (/en/products/chassis/2U/825/SC825TQ-563LPB)	
 SC514-R400C (/en/products/chassis/1U/514/SC514-R400C)	 SC825TQ-R740LPB (/en/products/chassis/2U/825/SC825TQ-R740LPB)	

 = Most optimized Chassis for SuperServer Configuration
 Blue color = Compatible
 Green color = Global SKU & Compatible
 Red dot & green color = Optimized + Global SKU

Server (Optimized for X10DRL-i)

Server Name

[SYS-6018R-MT \(/en/products/system/1U/6018/SYS-6018R-MT.cfm\)](/en/products/system/1U/6018/SYS-6018R-MT.cfm)

[SYS-6018R-MTR \(/en/products/system/1U/6018/SYS-6018R-MTR.cfm\)](/en/products/system/1U/6018/SYS-6018R-MTR.cfm)

[Global SKU \(/ja/products/SMC_global_skus\)](/ja/products/SMC_global_skus)