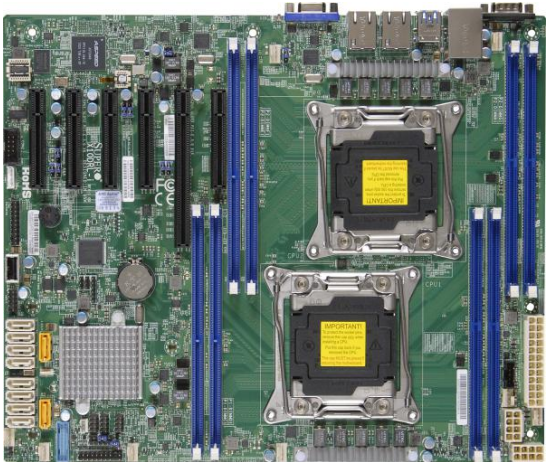


X10DRL-i

Links & Resources

- [Tested Memory List](#)
- [Tested HDD / SSD List](#)
- [Tested AOC List](#)
- [Motherboard Manual](#)
- [Quick Reference Guide](#)
- [Update Your BIOS](#)
- [BMC Firmware](#)
- [Download the Latest Drivers and Utilities](#)
- [Download Driver CD](#)
- [OS Compatibility](#)
- [Optimization](#)



12" x 10"

Key Features

- 1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family; UPI up to 9.6GT/s
- 2. Intel® C612 chipset
- 3. Up to 1TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz ; 8 DIMM slots
- 4. 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)
- 5. Intel® i210 GbE LAN, 2 ports
- 6. Integrated IPMI 2.0 and KVM with Dedicated LAN
- 7. 10 SATA3 (6Gbps); RAID 0, 1, 5, 10
- 8. 4 USB 3.0 (2 rear, 2 via header)
5 USB 2.0 (2 rear, 2 via header, 1 Type A)



Specifications

Product SKUs

MBD-X10DRL-i	■ X10DRL-i
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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	■ 2400□/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

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

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)
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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)

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-9655H-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 Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	● SC813MFTQ-R400CB ● SC813MFTQ-R606CB ● SC813MFTQ-441CB SC514-505 SC514-R400C	● SC823TQ-653LPB ● SC826TQ-R500LPB ● SC213LT-600LPB ● SC825TQ-563LPB SC825TQ-R740LPB	● SC836TQ-R500B ● SC833T-653B	● SC732D4F-903B ● SC732I-500B	● SC842TQ-665B ● SC842TQ-865B

● = 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
<u>SYS-6018R-MT</u>
<u>SYS-6018R-MTR</u>