

X10DRC-LN4+



Links & Resources

(https://www.supermicro.com/CDS_Image/uploads/imagecache/600px_wide/intel_motherboard_active/x10drc_t4_0.jpg)

Broadcom 3108 SAS3 HW RAID

Quad 1GbE LAN

24 DIMMs

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 3TB† ECC 3DS LRDIMM, up to

DDR4- 2400†MHz ; 24x DIMM slots

2 PCI-E 3.0 x16, 3 PCI-E 3.0 x8, and

1 PCI-E 2.0 x4 (in x8) slot

Quad LAN w/ Intel® i350 GbE

10 SATA3 (6Gbps) ports w/ Intel®

C612 controller; RAID 0, 1, 5, 10

8 SAS3 (12Gbps) ports w/ Broadcom® 3108 controller; RAID 0, 1, 5, 6, 10, 50, 60

SuperCap option support

Integrated IPMI 2.0 and KVM with Dedicated LAN

5 USB 3.0 (2 rear, 2 front panel, 1 Type-A)

4 USB 2.0 (2 rear, 2 front panel)

Specifications

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

MBD-X10DRC-LN4+
X10DRC-LN4+

Physical Stats

Form Factor

E.E. ATX

Dimensions

13.68" x 13" (34.75cm x 33.02cm)

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

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

Up to 768GB Registered ECC RDIMM, DDR4-2400MHz; Up to 3TB 3DS ECC LRDIMM, in 24 DIMM slots

Memory Type

2400MHz/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

On-Board Devices

Chipset

Intel® C612

SATA

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

SAS

Broadcom 3108 SAS3 (12Gbps) controller; HW RAID 0, 1, 5, 6, 10, 50, 60

2GB Cache with optional SuperCap backup module

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.

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 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

Expansion Slots

PCI-E

2 PCI-E 3.0 x16,

3 PCI-E 3.0 x8

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 1.0 / 2.0 / 3.0 / 4.0

USB Keyboard support

SMBIOS 2.7.1

UEFI 2.3.1

Management

Software

Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor® 5, Watchdog

Power Configurations

ACPI Power Management

Power-on mode for AC power recovery

PC Health Monitoring

Voltage

+1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 6 Phase-switching voltage regulator, Chassis intrusion header, Memory Voltages

FAN

7x 4-pin fan headers (up to 7 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, RoHS, SDDC

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

2 USB 2.0 ports (2 rear Type A)

3 USB 3.0 ports (2 rear + 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-X10DRC-LN4+	1	X10DRC-LN4+ Motherboard
X10DRC-LN4+-B	MBD-X10DRC-LN4+-B	1	X10DRC-LN4+ Motherboard
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X10 socket R server MB with Gasket
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF

Parts List (Retail Package)

Name	Part Number	Qty	Description
Motherboard	MBD-X10DRC-LN4+	1	X10DRC-LN4+ Motherboard
X10DRC-LN4+-P	MBD-X10DRC-LN4+-P	1	X10DRC-LN4+ Motherboard
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X10 socket R server MB with Gasket
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Cables	CBL-SAST-0532	2	Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s
Quick Reference Guide	MNL-1560-QRG	1	Quick Reference Guide

Optional Parts List

Name	Part Number	Qty	Description
Heat Sink (optional, not included)		--	http://www.supermicro.com/manuals/brochure/x10_HeatSink_Compatibility.pdf
TPM security module (optional, not included)	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
SuperDOM		--	Supermicro SATA DOM Solutions http://www.supermicro.com/products/nfo/SATADOM.cfm
SuperCap TFM module	BTR-TFM8G-Broadcom®CVM02	1	SuperCap TFM module
I/O Cables	CBL-SAST-0532	2	Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s,HF
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 X10DRC-LN4+)

Embedded 1U 2U
Compact

3U

Mid/Mini-
Tower


4

-  [SC826BE1C-R920LPB](/en/products/chassis/2u/826/SC826BE1C-R920LPB)
(/en/products/chassis/2u/826/SC826BE1C-R920LPB)
-  [SC216BAC-R920LPB](/en/products/chassis/2U/216/SC216BAC-R920LPB)
(/en/products/chassis/2U/216/SC216BAC-R920LPB)
-  [SC826BAC4-R920LPB](/en/products/chassis/2U/826/SC826BAC4-R920LPB)
(/en/products/chassis/2U/826/SC826BAC4-R920LPB)
-  [SC216BE1C-R920LPB](/en/products/chassis/2U/216/SC216BE1C-R920LPB)
(/en/products/chassis/2U/216/SC216BE1C-R920LPB)
-  [SC826BE2C-R920LPB](/en/products/chassis/2U/826/SC826BE2C-R920LPB)
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-  [SC216BE2C-R920LPB](/en/products/chassis/2U/216/SC216BE2C-R920LPB)
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-  [SC836BE1C-R1K03B](/en/products/chassis/3U/836/SC836BE1C-R1K03B)
(/en/products/chassis/3U/836/SC836BE1C-R1K03B)
-  [SC835BTQ-R1K28B](/en/products/chassis/3U/835/SC835BTQ-R1K28B)
(/en/products/chassis/3U/835/SC835BTQ-R1K28B)

-  [SC404BE1C-R1K28B](/en/products/chassis/4U/404/SC404BE1C-R1K28B)
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-  [SC404BE1C-R1K28B](/en/products/chassis/4U/404/SC404BE1C-R1K28B)
(/en/products/chassis/4U/404/SC404BE1C-R1K28B)



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

Server (Optimized for X10DRC-LN4+)

Server Name

[SYS-7048R-C1R4+](/en/products/system/4U/7048/SYS-7048R-C1R4_.cfm) (/en/products/system/4U/7048/SYS-7048R-C1R4_.cfm)

[SYS-2028R-C1R4+](/en/products/system/2U/2028/SYS-2028R-C1R4_.cfm) (/en/products/system/2U/2028/SYS-2028R-C1R4_.cfm)

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