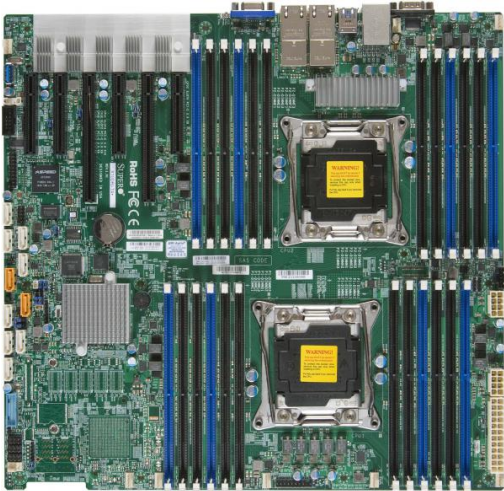




**Broadcom 3108 SAS3 HW RAID
Quad 10GbE LAN
24 DIMMs
Key Features**

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](#)
- [Optimization](#)

- 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 3TB† ECC 3DS LRDIMM, up to DDR4- 2400†MHz ; 24x DIMM slots
- 4. 2 PCIe 3.0 x16, 3 PCIe 3.0 x8, and 1 PCIe 2.0 x4 (in x8) slot
- 5. Quad LAN w / Intel® X540 10GBase-T
- 6. 10 SATA3 (6Gbps) ports w / Intel® C612 controller; RAID 0, 1, 5, 10
- 7. 8 SAS3 (12Gbps) ports w / Broadcom® 3108 controller; RAID 0, 1, 5, 6, 10, 50, 60
[SuperCap option support](#)
- 8. Integrated IPMI 2.0 and KVM w ith Dedicated LAN
- 9. 5 USB 3.0 (2 rear, 2 front panel, 1 Type-A)
4 USB 2.0 (2 rear, 2 front panel)

Specifications

Product SKUs

MBD-X10DRC-T4+	■ X10DRC-T4+
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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 LGA-2011-3 (Socket R3) supported, CPU TDP support Up to 145W TDP
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	■ 768GB Registered ECC RDIMM, DDR4-2400MHz3TB 3DS ECC LRDIMM, in 24 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

On-Board Devices

Chipset	■ Intel® C612
SATA	■ Broadcom® 3108 HW with 2G Cache controller for
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® X540 10GBase-T 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) port
LAN	■ 4 RJ45 10GBase-T ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 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

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)
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System BIOS

BIOS Type	■ 128Mb SPI Flash EEPROM w with UEFI 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 Pow er Management ■ Pow er-on mode for AC pow er recovery

PC Health Monitoring

Voltage	■ +1.8V, +12V, +3.3V, +5V, +5V standby, 3.3V standby, 6 Phase-sw itching 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, 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)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10DRC-T4+	1	X10DRC-T4+ Motherboard
X10DRC-T4+	X10DRC-T4+-B	1	Bulk packaging option
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-T4+	1	X10DRC-T4+ Motherboard
X10DRC-T4+	X10DRC-T4+-P	1	X10DRC-T4+
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
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
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
SuperCap TFM module	BTR-TFM8G-Broadcom®CVM02	--	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-9655H-S	--	TPM 2.0 module with Infineon 9665, RoHS/REACH, PBF; Vertical or Horizontal depends on the server, provisioned for TXT
Heat Sink (optional, not included)			CPU Heat Sink reference
SuperDOM			Supermicro SATA DOM Solutions [Details]

Chassis (Optimized for X10DRC-T4+)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
		● 826BE1C-R920LPB ● 216BAC-R920LPB ● 826BAC4-R920LPB ● 216BE1C-R920LPB ● 826BE2C-R920LPB ● 216BE2C-R920LPB 2U Heatsink:SNK-P0048P	● SC836BE1C-R1K03B ● SC835BTQ-R1K28B 2U Heatsink:SNK-P0048P		● SC847BE1C-R1K28LPB ● SC846BE1C-R1K28B ● SC745TQ-R920B ● SC417BE1C-R1K28LPB ● SC417BE2C-R1K28LPB 2U Heatsink:SNK-P0048P

● = 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-T4+)

Server Name
<u>SYS-7048R-C1RT4+</u>
<u>SYS-2028R-C1RT4+</u>