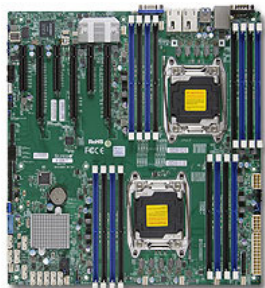



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X10DRI-T

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Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. Up to 1TB ECC DDR4 2133MHz; 16x DIMM slots
4. 3 PCI-E 3.0 x16 and 3 PCI-E 3.0 x8
5. Intel® X540 Dual port 10GBase-T
6. 10x SATA3 (6Gbps); RAID 0, 1, 5, 10
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 5x USB 3.0 (2 rear, 2 via header, 1 Type A), 6x USB 2.0 (2 rear, 4 via header)

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD / SSD List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Quick Reference Guide](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [Heat Sink Compatibility](#)
- ▶ [OS Compatibility](#)
- ▶ [DP Motherboard Selection Assistant](#)



Specifications

Product SKUs

- | | |
|------------------------|--------------------------|
| MBD-X10DRI-T -B | ■ X10DRI-T (Bulk Pack) |
| MBD-X10DRI-T -O | ■ X10DRI-T (Retail Pack) |

Physical Stats

- | | |
|--------------------|-------------------------------|
| Form Factor | ■ E-ATX |
| Dimensions | ■ 12" x 13" (30,5cm x 33,0cm) |

Processor/Cache

- | | |
|----------------------|--|
| CPU | ■ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP)
■ Dual Socket R3 (LGA 2011) |
| Cores / Cache | ■ Up to 18 Cores / Up to 45MB Cache |
| System Bus | ■ QPI up to 9.6 GT/s |
| Note | ** Motherboard supports this maximum TDP. Please verify your system can thermally support. |

System Memory

- | | |
|------------------------|--|
| Memory Capacity | ■ 16x 288-pin DDR4 DIMM slots
■ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM |
| Memory Type | ■ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit |
| DIMM Sizes | ■ RDIMM: 32GB, 16GB, 8GB, 4GB
■ LRDIMM: 64GB, 32GB |
| Memory Voltage | ■ 1.2 V |
| Error Detection | ■ Corrects single-bit errors |

On-Board Devices

- | | |
|----------------------------|---|
| Chipset | ■ Intel® C612 chipset |
| 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 | ■ Intel® X540 Dual Port 10GBase-T
■ Virtual Machine Device Queues reduce I/O overhead
■ Supports 10GBase-T, 100BASE-TX, and 1000BASE-T, RJ45 output |
| Video | ■ ASPEED AST2400 BMC |

Input / Output

- | | |
|-------------|--|
| SATA | ■ 10x SATA3 (6Gbps) ports |
| LAN | ■ 2x RJ45 10GBase-T ports
■ 1x RJ45 Dedicated IPMI LAN port |

Chassis (Optimized for X10DRI-T)

- | | |
|--------------------------------|--|
| 2U Chassis: | ■ SC825TQ-R740LPB
■ SC826BA-R920LPB
■ SC826BE1C-R920LPB
■ SC213A-R740LPB
■ SC823TQ-653LPB
■ SC216BAC-R920LPB |
| 3U Chassis: | ■ SC835TQ-R920B
■ SC836BA-R1K28B |
| Mid/Mini Tower Chassis: | ■ SC732L-865B
■ SC732D4F-903B |
| 4U / Tower Chassis: | ■ SC743TQ-1200B
■ SC846BA-R920B
■ SC846BE1C-R1K28B
■ SC847BE1C-R1K28LPB
■ SC842TQ-865B
■ SC847BE2C-R1K28LPB |
| Important Chassis Notes | ■ To support the new generation Intel® Xeon® processor-based motherboards, Revision M chassis is recommended. Please talk to your sales representative for details. |

SuperServer(s) with X10DRI-T

- | | |
|-----------------|--|
| Model(s) | ■ SYS-6028R-TT
■ SYS-6028R-TRT
■ SYS-7048R-TRT |
|-----------------|--|

Expansion Slots

- | | |
|--------------------|---------------------------------------|
| PCI-Express | ■ 3 PCI-E 3.0 x16
■ 3 PCI-E 3.0 x8 |
|--------------------|---------------------------------------|

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 3.0
■ NMI
■ SPM
■ SUM
■ SuperDoctor® 5
■ Watch Dog |
| Power Configurations | ■ ACPI Power Management
■ Power-on mode for AC power recovery |

PC Health Monitoring

- | | |
|----------------|---|
| Voltage | ■ Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages.
■ 5 Phase-switching voltage regulator |
|----------------|---|

USB	5x USB 3.0 ports (2 rear + 2 via header + 1 Type A) 6x USB 2.0 ports (2 rear + 4 via headers)
Video	1x VGA port
Serial Port / Header	2x Fast UART 16550 serial 2x COM Ports (1 rear, 1 header)
DOM	2x SuperDOM (Disk on Module) ports
TPM	1x TPM 1.2 20-pin Header

FAN	8x 4-pin fan headers (up to 8 fans) 8x fans with tachometer monitoring - Status monitor for speed control - Pulse Width Modulated (PWM) fan connectors
Temperature	- Monitoring for CPU and chassis environment - CPU thermal trip support - Thermal Control for 8x 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 - SDDC Support - RoHS

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)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk)

	Part Number	Qty	Description
X10DRI-T	MBD-X10DRI-T	1	X10DRI-T Motherboard
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF

Parts List (Retail)

	Part Number	Qty	Description
X10DRI-T	MBD-X10DRI-T	1	X10DRI-T Motherboard
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket
I/O Cables	CBL-0044L	6	SATA CABLE 61CM FLAT S-S PBF
Quick Reference Guide	MNL-1491-QRG	1	Quick Reference Guide

Optional Parts List

	Part Number	Qty	Description
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference
TPM security module (optional, not included)	AOM-TPM-9655V AOM-TPM-9655H	-	TPM module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]

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