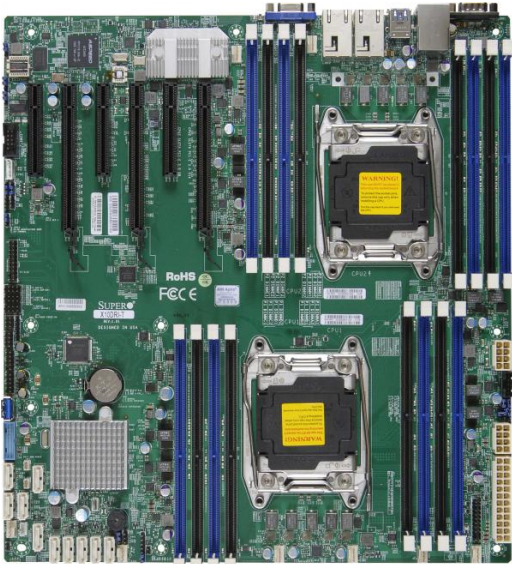




Dual 10GbE
12" x 13"

Key Features

- 1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3/v4 family; UPI up to 9.6GT/s
- 2. Intel® C612 chipset
- 3. Up to 2TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz; 16 DIMM slots
- 4. 3 PCI-E 3.0 16 and 3 PCI-E 3.0 8
- 5. Intel® X540 Dual port 10GBase-T
- 6. 10 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
- 7. Integrated IPMI 2.0 and KVM with Dedicated LAN
- 8. 5 USB 3.0 (2 rear, 2 via header(s), 1 Type A), 6 USB 2.0 (2 rear, 4 via header(s))

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](#)



Specifications

Product SKUs

- MBD-X10DRi-T ■ X10DRi-T

Physical Stats

- Form Factor ■ E-ATX
- Dimensions ■ 12" x 13" (30.5cm x 33.0cm)

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, 1 QPI up to 9.6GT/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 ■ ; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots 16x 288-pin DDR4 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® X540 10GBase-T 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
- Graphics ■ Aspeed AST2400 BMC

Input / Output

- SATA ■ 10 SATA3 (6Gbps) port
- LAN ■ 2 RJ45 10GBase-T ports
■ 1 RJ45 Dedicated IPMI LAN port
- USB ■ 6 USB 2.0 ports (2 rear + 4 headers)
■ 5 USB 3.0 ports (2 rear + 2 headers + 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 ■ 3 PCIe 3.0 x16,
■ 3 PCIe 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, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
- Power Configurations ■ ACPI Power Management
■ Power-on mode for AC power recovery

PC Health Monitoring

- Voltage ■ +3.3V, +5V, +5V standby, 3.3V standby, 5 Phase-switching voltage regulator, Memory Voltages, Monitors for CPU Cores, VBAT
- 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
- 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-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 Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10DRi-T	1	X10DRi-T Motherboard
X10DRi-T	MBD-X1-DRi-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			
Name	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 1.2 module with Infineon 9655, RoHS/REACH, PBF; Vertical or Horiztonal 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 Horiztonal 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
SuperDOM		--	Supermicro SATA DOM Solutions [Details]

Chassis (Optimized for X10DRi-T)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
		● 825TQ-R740LPB ● 826BA-R920LPB ● 826BE1C-R920LPB ● 213A-R740LPB ● 216BA-R920LPB ● 823TQ-653LPB ● 216BAC-R920LPB ● 216BE1C-R920LPB ● 826BE2C-R920LPB ● 216BE2C-R920LPB 2U Heatsink:SNK-P0048PS 4U Heatsink:SNK-P0050AP4	● SC835TQ-R920B ● SC836BA-R1K28B 2U Heatsink:SNK-P0048PS 4U Heatsink:SNK-P0050AP4	● SC732i-865B ● SC732D4F-903B	● SC743TQ-1200B ● SC846BA-R920B ● SC846BE1C-R1K28B ● SC847BE1C-R1K28LPB ● SC842TQ-865B ● SC847BE2C-R1K28LPB ● SC417BE1C-R1K28LPB ● SC417BE2C-R1K28LPB 2U Heatsink:SNK-P0048PS 4U Heatsink:SNK-P0050AP4

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

Server (Optimized for X10DRi-T)

Server Name
SYS-6028R-TRT
SYS-6028R-TT
SYS-7048R-TRT