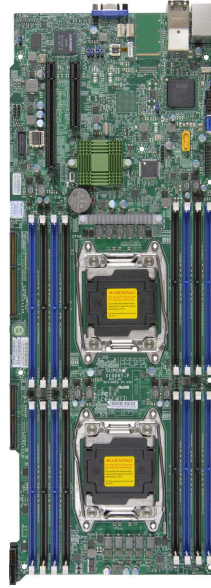


X10DRT-P (For SuperServer Only)



Links & Resources

(https://www.supermicro.com/CDS_Image/uploads/imagecache/600px_wide/intel_motherboard_active/X10DRT-P_0.jpg).

16 DIMMs

2400MHz DDR4

2U Twin2

Key Features

Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3/v4 family; QPI up to 9.6GT/s
Intel® C612 chipset
Up to 2TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz; 16 DIMM slots
Expansion slots: 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (Proprietary slot), 1 PCI-E 3.0 x8 and 1 PCI-E 3.0 x16 (for Supermicro storage add-on card)
Intel® i350-AM2 Dual port GbE LAN
10 SATA3 (6Gbps)
Integrated IPMI 2.0 and KVM with Dedicated LAN
2 USB 3.0 ports (2 rear)

Specifications

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

MBD-X10DRT-P
X10DRT-P

Physical Stats

Form Factor

Proprietary Twin

Dimensions

6.8" x 18.86" (17.27cm x 47.9cm)

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

2TB 3DS ECC RDIMM, DDR4-2133MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots

Memory Type

2400MHz/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® Ethernet Controller I350-AM2

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

1 PCI-E 3.0 x16,

1 PCI-E 3.0 x8,

1 PCI-E 3.0 x8 connector for SMC add-on cards,

1 PCI-E 3.0 x16 connector for SMC add-on cards,

(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.)

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

IPMI2.0, NMI, SuperDoctor® 5, Watchdog

System Management Software

SPM

SUM

SSM

SuperDoctor 5

Power Configurations

ACPI Power Management

Power-on mode for AC power recovery

PC Health Monitoring

Voltage

+12V, +3.3V, +5V, 3.3V standby, 6 Phase-switching voltage regulator, Memory Voltages, VBAT

FAN

2x 4-pin fan headers (up to 2 fans), 4 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 4 Fan Connectors (2 fans on backplane), Thermal Monitor 2 (TM2) support, PECI

LED

CPU / System Overheat LED, Suspend static indicator LED,

UID/Remote UID

Other Features

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)



Input / Output

SATA

10 SATA3 (6Gbps) port

LAN

2 RJ45 Gigabit Ethernet LAN ports

1 RJ45 Dedicated IPMI LAN port

USB

3 USB 3.0 ports (2 rear + 1 Type A)

Video Output

1 VGA port

TPM

1 TPM Header

Parts List

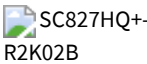
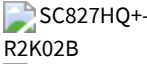
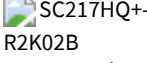

Parts List (Bulk Package)

Name	Part Number	Qty	Description
Motherboard	MBD-X10DRT-P	1	X10DRT-P Motherboard

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 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
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
SuperDOM		--	Supermicro SATA DOM Solutions [Details]

Chassis (Optimized for X10DRT-P)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
					
					
					
		1U Heatsink:SNK-P0047PSM (Rear)			
		1U Heatsink:SNK-P0047PSM (Front)			
		1U Heatsink:SNK-P0057PS (Rear)			
		1U Heatsink:SNK-P0057PS (Front)			
		2U: 			
		2U Heatsink:SNK-P0048PS			

 = Most optimized Chassis for SuperServer Configuration
 Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

Server (Optimized for X10DRT-P)

Server Name

[SYS-6028TP-HTR \(/en/products/system/2U/6028/SYS-6028TP-HTR.cfm\)](/en/products/system/2U/6028/SYS-6028TP-HTR.cfm)

[SYS-2028TP-HC1R \(/en/products/system/2U/2028/SYS-2028TP-HC1R.cfm\)](/en/products/system/2U/2028/SYS-2028TP-HC1R.cfm)

[SYS-2028TP-HC0R \(/en/products/system/2U/2028/SYS-2028TP-HC0R.cfm\)](/en/products/system/2U/2028/SYS-2028TP-HC0R.cfm)

[SYS-2028TP-HTR \(/en/products/system/2U/2028/SYS-2028TP-HTR.cfm\)](/en/products/system/2U/2028/SYS-2028TP-HTR.cfm)

[SYS-2028TP-DC1R \(/en/products/system/2U/2028/SYS-2028TP-DC1R.cfm\)](/en/products/system/2U/2028/SYS-2028TP-DC1R.cfm)

[SYS-2028TP-DC0R \(/en/products/system/2U/2028/SYS-2028TP-DC0R.cfm\)](/en/products/system/2U/2028/SYS-2028TP-DC0R.cfm)

[SYS-2028TP-DTR \(/en/products/system/2U/2028/SYS-2028TP-DTR.cfm\)](/en/products/system/2U/2028/SYS-2028TP-DTR.cfm)

[SYS-6028TP-HC1R \(/en/products/system/2U/6028/SYS-6028TP-HC1R.cfm\)](/en/products/system/2U/6028/SYS-6028TP-HC1R.cfm)

[SYS-6028TP-HC0R \(/en/products/system/2U/6028/SYS-6028TP-HC0R.cfm\)](/en/products/system/2U/6028/SYS-6028TP-HC0R.cfm)

[SYS-2028TP-DNCR \(/en/products/system/2U/2028/SYS-2028TP-DNCR.cfm\)](/en/products/system/2U/2028/SYS-2028TP-DNCR.cfm)

[SYS-6028TP-DNCR \(/en/products/system/2U/6028/SYS-6028TP-DNCR.cfm\)](/en/products/system/2U/6028/SYS-6028TP-DNCR.cfm)

[SYS-2028TP-DECR \(/en/products/system/2U/2028/SYS-2028TP-DECR.cfm\)](/en/products/system/2U/2028/SYS-2028TP-DECR.cfm)

[SYS-1028TP-DTR \(/en/products/system/1U/1028/SYS-1028TP-DTR.cfm\)](/en/products/system/1U/1028/SYS-1028TP-DTR.cfm)

[SYS-1028TP-DC0R \(/en/products/system/1U/1028/SYS-1028TP-DC0R.cfm\)](/en/products/system/1U/1028/SYS-1028TP-DC0R.cfm)

[SYS-1028TP-DC1R \(/en/products/system/1U/1028/SYS-1028TP-DC1R.cfm\)](/en/products/system/1U/1028/SYS-1028TP-DC1R.cfm)

Certain products may not be available in your region

[Global SKU \(/ja/products/SMC_global_skus\)](/ja/products/SMC_global_skus)
