



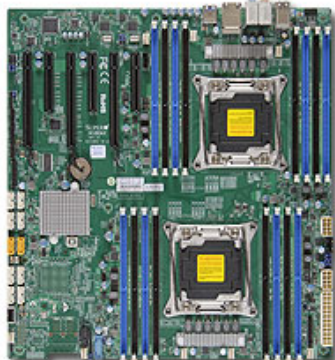
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Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. Up to **2TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 16x DIMM slots
4. 3x PCI-E 3.0 x16, 2x PCI-E 3.0 x8, and 1x PCI-E 2.0 x4 (in x8) slot
5. Dual GbE LAN ports via Intel® i210
6. 10x SATA3 (6Gbps) ports w/ Intel C612 controller; RAID 0, 1, 5, 10
7. 6x USB 3.0 (4 rear, 2 via header) 5x USB 2.0 (2 rear, 2 via header, 1 Type A)
8. 7.1 HD Audio with optical S/PDIF
9. Thunderbolt Add-On Card support

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Specifications

Product SKUs	
MBD-X10DAi -B	▪ X10DAi (Bulk Pack)
MBD-X10DAi -O	▪ X10DAi (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 v4 [†] / v3 family (up to 160W TDP **) ▪ Dual Socket R3 (LGA 2011)
Cores / Cache	▪ Up to 22 Cores [†] / Up to 55MB [†] Cache
System Bus	▪ QPI up to 9.6 GT/s
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	▪ 16x 288-pin DDR4 DIMM slots ▪ Up to 2TB [†] ECC 3DS LRDIMM, 1TB ECC RDIMM
Memory Type	▪ 2400 [†] /2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	▪ RDIMM: 32GB, 16GB, 8GB, 4GB ▪ LRDIMM: 64GB, 32GB

Chassis (Optimized for X10DAi)	
2U Chassis:	▪ SC825TQ-R740LPB ▪ SC826BA-R920LPB ▪ SC213A-R740LPB ▪ SC216BAC-R920LPB
3U Chassis:	▪ SC835TQ-R920B ▪ SC836BA-R1K28B ▪ SC836BA-R920B ▪ SC835BTQ-R1K28B
4U / Tower Chassis:	▪ SC743TQ-1200B ▪ SC745TQ-R920B ▪ SC747TG-R1400B-SQ ▪ SC846BA-R920B ▪ SC846BE1C-R1K28B ▪ SC745BTQ-R1K28B-SQ ▪ SC747BTQ-R1K62B ▪ SC847BE1C-R1K28LPB ▪ 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 X10DAi	
Model(s)	▪ SYS-7038A-I ▪ SYS-7048A-T

Expansion Slots	
PCI-Express	▪ 3 PCI-E 3.0 x16 ▪ 2 PCI-E 3.0 x8 ▪ 1 PCI-E 2.0 x4 (in x8)

	<ul style="list-style-type: none"> 3DS LRDIMM: 128GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
AHCI SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1, 5, 10
SCU SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	<ul style="list-style-type: none"> Dual Gigabit Ethernet LAN ports via Intel® i210 Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	<ul style="list-style-type: none"> RealTek ALC888 7.1 High Definition Audio with S/PDIF header
Input / Output	
SATA	<ul style="list-style-type: none"> 10x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports
USB	<ul style="list-style-type: none"> 6x USB 3.0 ports (4 rear + 2 via header) 5x USB 2.0 ports (2 rear + 2 via header + 1 Type A)
Audio	<ul style="list-style-type: none"> 7.1 HD Audio with optical S/PDIF
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports
TPM	<ul style="list-style-type: none"> 1x TPM Header

System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS 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
BIOS Features	

Management

Software	<ul style="list-style-type: none"> NMI SuperDoctor@ 5 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Power-on mode for AC power recovery

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages. 6 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend static indicator LED UID/Remote UID
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header SDDC Support RoHS

Operating Environment

Operating Temperature Range	<ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	<ul style="list-style-type: none"> 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
X10DAi	MBD-X10DAi	1	X10DAi Motherboard
I/O Shield	MCP-260-00045-1N	1	STD size I/O Shield for X10DAi with EMI Gasket and front metal,RoHS/REACH
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF

Parts List (Retail)

	Part Number	Qty	Description
X10DAi	MBD-X10DAi	1	X10DAi Motherboard
I/O Shield	MCP-260-00045-1N	1	STD size I/O Shield for X10DAi with EMI Gasket and front metal,RoHS/REACH
I/O Cables	CBL-0044L	6	SATA CABLE 61CM FLAT S-S PBF
Quick Reference Guide	MNL-1563-QRG	1	Quick Reference Guide

Optional Parts List

	Part Number	Qty	Description
	-	-	CPU Heat Sink reference

Heat Sink (optional, not included)			
TPM security module (optional, not included)	AOM-TPM-9655V	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
	AOM-TPM-9655H	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server, Provisioned for TXT
	AOM-TPM-9655V-S	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server, Provisioned for TXT
	AOM-TPM-9655H-S	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server, Provisioned for TXT
	AOM-TPM-9665V	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
	AOM-TPM-9665H	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
	AOM-TPM-9665V-S	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF; Vertical or Horizontal depends on the server, Provisioned for TXT
	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]
Add-on Card	AOC-TBT-DSL5320	1	Thunderbolt 2,W/Display and GPIO cable,HF,RoHS/REACH

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