X10DAi

Products ▸ Motherboards ▸ Xeon® Boards ▸ [**X10DAi**]

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 reg. ECC DDR4 2133MHz; 16x DIMM sockets
4.	3x PCI-E 3.0 x16, 2x PCI-E 3.0 x8, and 1x PCI-E 2.0 x4 (in x8) slot
5.	Intel® i210 Dual port GbE LAN
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

Links & Resources

▸ Tested Memory List
▸ Update Your BIOS
▸ Download the Latest Drivers and Utilities
▸ Download Driver CD
▸ Heat Sink Compatibility
▸ OS Compatibility

Specifications

Product SKUs

MBD-X10DAi -B	X10DAi (Bulk 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 160W 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 sockets ▪ 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 ▪ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	▪ Intel® C612 Express chipset
SATA	▪ SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	▪ Intel® i210 Dual Port Gigabit Ethernet ▪ Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	▪ RealTek ALC888 7.1 High Definition Audio with S/PDIF header

Input / Output

SATA	▪ 10x SATA3 (6Gbps) ports

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)

System BIOS

BIOS Type	▪ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	▪ Plug and Play (PnP) ▪ APM 1.2 ▪ 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	▪ NMI ▪ SuperDoctor® 5 ▪ Watch Dog
Power Configurations	▪ ACPI / APM Power Management ▪ Power-on mode for AC power recovery

PC Health Monitoring

Voltage	▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages. ▪ 5+1 Phase-switching voltage regulator
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

LAN	▪ 2x RJ45 Gigabit Ethernet LAN ports	
USB	▪ 6x USB 3.0 ports (4 rear + 2 via header) ▪ 5x USB 2.0 ports (2 rear + 2 via header + 1 Type A)	
Audio	▪ 7.1 HD Audio with optical S/PDIF	
Serial Port / Header	▪ 2x COM Ports (1 rear, 1 header)	
DOM	▪ 2x SuperDOM (Disk on Module) ports	
TPM	▪ 1x TPM 1.2 20-pin Header	

	▪ 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
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

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 or AOM-TPM-9655H	-	TPM module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]