

X10DAX

[Products](#) >
 [Motherboards](#) >
 [Xeon® Boards](#) >
 [[X10DAX](#)]



Hyper-Speed Technology Workstation

Key Features

• Support [Hyper-Speed](#)

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 sockets
4. 3 PCI-E 3.0 x16, 2 PCI-E 3.0 x8, and 1 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

Links & Resources

- ▶ [Tested HDD / SSD List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [Heat Sink Compatibility](#)
- ▶ [OS Compatibility](#)

Specifications

Product SKUs	
MBD-X10DAX -B	▪ X10DAX (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
On-Board Devices	
Chipset	▪ Intel® C612 Express chipset
SATA	▪ SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	▪ Intel® i210 Dual Port Gigabit Ethernet ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	▪ RealTek ALC889 7.1 High Definition Audio with S/PDIF header
Input / Output	

Chassis (Optimized for X10DAX)	
2U Chassis	▪ CSE-213A-R740LPB ▪ CSE-825TQ-R740LPB ▪ CSE-826BA-R920LPB
3U Chassis	▪ CSE-835BTQ-R1K28B ▪ CSE-835TQ-R920B ▪ CSE-836BA-R1K28B ▪ CSE-836BA-R920B
Mid-Tower	▪ CSE-732D4F-903B ▪ CSE-732I-865B
Tower / 4U Rackmount	▪ CSE-743TQ-1200B ▪ CSE-745BTQ-R1K28B-SQ ▪ CSE-745TQ-920B ▪ CSE-747BTQ-R1K62B ▪ CSE-747TG-R1400B-SQ ▪ CSE-846BA-R920B
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	

SATA	▪ 10x SATA3 (6Gbps) ports
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
DOM	▪ <u>DOM</u> (Disk on Module) power connector
TPM	▪ 1x TPM 1.2 20-pin Header

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 ▪ 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
X10DAX	MBD-X10DAX	1	X10DAX Motherboard
I/O Shield	MCP-260-00038-0N	1	1U/2U UIO/WIO I/O Shield (2 LAN+ 2 10G SFP+)
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]
Add-on Card	AOC-TBT-DSL5320	1	Thunderbolt 2,W/Display and GPIO cable,HF,RoHS/REACH
I/O Cables	CBL-0097L-03	2	30AWG 50CM Ipass to 4 SATA, W/50cm SB, S

Terms & Conditions | Privacy | Investor Relations | Jobs | Site Map
 SuperServer® | Motherboard | Chassis | Rack Cabinet | SuperBlade® | Embedded | Networking | Storage | Accessories | AMD Solution | Power Supplies

Copyright © 2014 Super Micro Computer, Inc.

Information in this document is subject to change without notice.
 Other products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders.