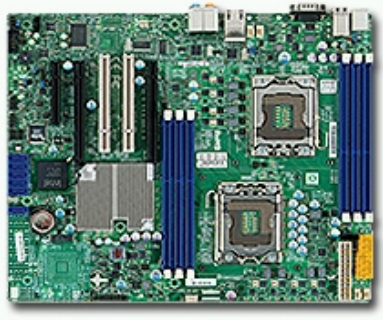


X8DAL-i

Products Motherboards Xeon Boards [X8DAL-i]



ATX 12" x 10" SATA Xeon Tylersburg Workstation

Key Features

1. Intel® Xeon® processor 5600/5500 series, with QPI up to 6.4 GT/s
2. Intel® 5500 (Tylersburg) Chipset
3. Up to 96GB DDR3 1333/ 1066/ 800MHz ECC Registered DIMM / 24GB Unbuffered DIMM
4. Dual Intel® 82574L Gigabit Ethernet Controller
5. 6x SATA2 (3 Gbps) Ports via ICH10R Controller
6. 1 (x16) PCIe 2.0, 1 (x4) PCIe 2.0 (in x16 slot), 1 (x4) PCIe, 2x PCI 33MHz slots
7. Realtek ALC883 7.1 HD Audio

Links & Resources

- [Tested Memory List](#)
- [Tested HDD List](#)
- [Motherboard Manual](#)
- [Update Your BIOS](#)
- [Download the Latest Drivers and Utilities](#)

Specifications

Product SKUs	
MBD-X8DAL-i -O	X8DAL-i (Standard Retail Pack)
MBD-X8DAL-i -B	X8DAL-i (Bulk Pack)
Physical Stats	
Form Factor	ATX
Dimensions	12" x 10" (30.5cm x 25.4cm)
Processor/Cache	
CPU	<ul style="list-style-type: none"> Dual 1366-pin LGA Sockets Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below: <ul style="list-style-type: none"> Intel® Xeon® Processor 5600 Series (Westmere) Intel® Xeon® Processor 5500 Series (Nehalem -EP)
QPI	up to 6.4 GT/s
System Memory	
Memory Capacity	<ul style="list-style-type: none"> 6x 240-pin DIMM sockets Supports up to 96 GB 1333 / 1066 / 800MHz DDR3 ECC Registered memory Supports up to 24 GB 1333 / 1066 / 800MHz DDR3 ECC / Non ECC Unbuffered memory Memory Mirroring supported
Memory Type	1333 / 1066 / 800MHz ECC Registered / ECC or Non ECC Unbuffered DDR3 SDRAM 72bit, 240-pin gold-plated DIMMs
DIMM Sizes	1GB, 2GB, 4GB , 8GB , 16GB
Memory Voltage	1.5 V / 1.35V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory) Supports Intel® x4 and x8 Single Device Data Correction (SDCC)
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® 5500 (Tylersburg) chipset ICH10R + IOH24D
SATA	<ul style="list-style-type: none"> Intel ICH10R SATA 3.0Gbps Controller RAID 0, 1, 5, 10 support (Windows) RAID 0, 1, 10 support (Linux)
Network Controllers	<ul style="list-style-type: none"> 2x Intel® 82574L Gigabit Ethernet Controllers Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	Realtek ALC883 7.1 HD audio
Super I/O	Winbond 83827HF chip
Input / Output	
Serial ATA	<ul style="list-style-type: none"> Six Serial ATA ports Six SATA hard drives supported
LAN	2x RJ45 LAN ports
USB	<ul style="list-style-type: none"> 4x USB rear ports 2x USB internal headers (4 ports) Total 8 USB 2.0 Compliant
Audio	Realtek ALC883 7.1 HD audio
Keyboard / Mouse	PS/2 keyboard and mouse ports
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 serial port 1 Fast UART 16550 serial header (Option)

Chassis (Optimized for X8DAL -i)	
2U Chassis	<ul style="list-style-type: none"> CSE213A-R900LPB CSE216A-R900LPB CSE216E1-R900LPB CSE216E2-R900LPB CSE523L-520B CSE823MTQR700LPB CSE825MTQR700LPB CSE825TQ-560LPB CSE825TQ-563LPB CSE825TQ-R700LPB CSE825TQ-R720LPB CSE826A-R1200LPB CSE826E1-R800LPB CSE826E2-R800LPB CSE826TQ-R800LPB
3U Chassis	<ul style="list-style-type: none"> CSE833T-550B CSE833T-650B CSE833T-R760B CSE835TQ-R800B CSE835TQ-R920B CSE836A-R1200B CSE836E1-R800B CSE836E2-R800B CSE836TQ-R800B CSE933E1-R760B CSE933E2-R760B CSE933T-R760B CSE936A-R1200B CSE936A-R900B CSE936E1-R900B
Mid-Tower	CSE733TQ-665B
Tower / 4U Rackmount	<ul style="list-style-type: none"> CSE743I-R760 CSE743T-665B CSE743T-R760 CSE743TQ-865B CSE743TQ-865B-SQ CSE743TQ-R760 CSE745TQ-800B CSE745TQ-920B CSE745TQ-R800B CSE846A-R1200B CSE846E2-R900 CSE846TQ-R900B
Important Chassis Notes	To support the new generation Intel® Xeon® processor-based motherboards, a Revision K chassis is recommended for most models. Please talk to your sales representative or follow the link for details.
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 1 (x16) PCIe 2.0 1 (x4) PCIe 2.0 (in x16 slot) 1 (x4) PCIe
PCI	2x 33MHz PCI slots
System BIOS	
BIOS Type	32Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) PCI 2.2 ACPI up to 3.0 USB Keyboard support
Management	
Software	SuperDoctor® III
Power Configurations	ACPI / ACPM Power Management
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 4-Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Total of six fan headers supporting up to 6 fans Six 4-pin fan headers 6x fans with tachometer status monitoring Support 3-pin fans (w/o speed control) Low noise fan speed control (4 -pin fan only)
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for 8x fan connectors PECI
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header
Operating Environment / Compliance	
RoHS	<ul style="list-style-type: none"> RoHS Compliant 6/6. Pb Free
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10° to 35° C (50° to 95°F) Non-operating Temperature:-40° to 70° C (-40° to 158° F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5 to 95% (non-condensing)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Retail Pack)			
	Part Number	Qty	Description
X8DAL-i	MBD-X8DAL-i -O	1	X8DAL-i Motherboard
I/O Cable 1	CBL-0044L	6	57.5CM SATA FLAT SS PBF
Driver Disk	CDRX8	1	DRIVER CD FOR X8 MOTHERBOARD
I/O Shield	MCP260-74301-0N	1	IO SHIELD W/ 4XUSB & 2X3 AUDIO (WORKSTATION)
Manual	MNL-1088	1	X8DAL-3 / X8DAL-I MANUAL

Note: Items in a Standard Retail Package may differ from items in a Standard Bulk Package.