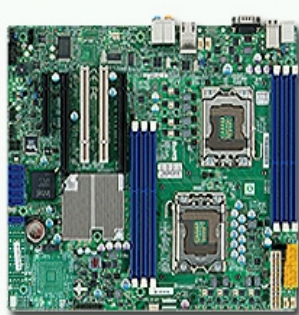


X8DAL-i

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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) PCI-E 2.0,
1 (x4) PCI-E 2.0 (in x16 slot),
1 (x4) PCI-E,
2x PCI 33MHz slots
7. Realtek ALC883 7.1 HD Audio

Links & Resources

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

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	▪ Dual 1366-pin LGA Sockets ▪ Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below : ▪ Intel® Xeon® Processor X5600/E5600/L5600 Series (Westmere) 40W - 95W ▪ Intel® Xeon® Processor X5500/E5500/L5500 Series (Nehalem-EP) 38W - 95W
QPI	▪ up to 6.4 GT/s
System Memory	
Memory Capacity	▪ 6x 240-pin DIMM slots ▪ 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 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	▪ 1GB, 2GB, 4GB , 8GB , 16GB
Memory Voltage	▪ 1.5 V / 1.35V
Error Detection	▪ 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	▪ Intel® 5500 (Tylersburg) chipset ▪ ICH10R + IOH-24D
SATA	▪ Intel ICH10R SATA 3.0Gbps Controller ▪ RAID 0, 1, 5, 10 support (Window s) ▪ RAID 0, 1, 10 support (Linux)
Network Controllers	▪ 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	▪ Six Serial ATA ports ▪ Six SATA hard drives supported
LAN	▪ 2x RJ45 LAN ports
USB	▪ 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	▪ 1 Fast UART 16550 serial port ▪ 1 Fast UART 16550 serial header (Option)

Chassis (Optimized for X86AL-i)	
2U Chassis	▪ CSE-825TQ-560LPB ▪ CSE-826A-R1200LPB ▪ CSE-826TQ-R800LPB
3U Chassis	▪ CSE-833T-550B ▪ CSE-836A-R1200B ▪ CSE-933E1-R760B ▪ CSE-933E2-R760B ▪ CSE-933T-R760B ▪ CSE-936E1-R900
Tower / 4U Rackmount	▪ CSE-846A-R1200B ▪ CSE-846E1-R900B ▪ CSE-846E2-R900 ▪ CSE-846TQ-R900B ▪ CSE-847E26-R1400LPB
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	▪ 1 (x16) PCI-E 2.0 ▪ 1 (x4) PCI-E 2.0 (in x16 slot) ▪ 1 (x4) PCI-E
PCI	▪ 2x 33MHz PCI slots
System BIOS	
BIOS Type	▪ 32Mb SPI Flash EEPROM w with AMI® BIOS
BIOS Features	▪ 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	
Voltage	▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. ▪ 4-Phase-sw itching voltage regulator
FAN	▪ 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	▪ Monitoring for CPU and chassis environment ▪ Thermal Control for 8x fan connectors ▪ PECI
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header
Operating Environment / Compliance	
RoHS	▪ RoHS Compliant 6/6_Pb Free
Environmental Spec.	▪ 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 S-S PBF
I/O Shield	MCP-260-74301-0N	1	IO SHIELD W/ 4XUSB & 2X3 AUDIO (WORKSTATION)
Manual	MNL-1088-QRG	Quick Reference	MNL-1088-QRG

X8DAL-
3/X8DAL-I
QUICK
REFERENCE
GUIDE

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