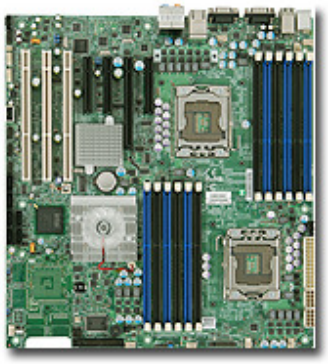
X8DAE



w/ 1 (x16) PCI-E 2.0, 3 PCI-X & IEEE 1394a Workstation

Key Features

1. Intel® Xeon® processor 5600/5500 series, with QPI up to 6.4 GT/s
2. Intel® 5520 (Tylersburg) Chipset
3. Up to 192GB DDR3 1333/ 1066/ 800MHz ECC Registered DIMM / 48GB Unbuffered DIMM
4. Dual Intel® 82574L Gigabit Ethernet
5. 6x SATA2 (3Gbps) Ports via ICH10R Controller
6. 1 (x16) PCI-E 2.0,
   2 (x4) PCI-E 2.0 (in x 8 slot),
   1 (x4) PCI-E (in x 8 slot),
   3x PCI-X 133/100MHz slots
7. Realtek ALC888 7.1 HD Audio
8. 2x IEEE 1394a Headers

Links & Resources

- Tested Memory List
- Tested HDD List
- Motherboard Manual
- Update Your BIOS
- Download the Latest Drivers and Utilities

RoHS 6/6 COMPLIANT

Specifications

Product SKUs

MBD-X8DAE-O	X8DAE (Standard Retail Pack)
MBD-X8DAE-B	X8DAE (Bulk Pack)

Physical Stats

Form Factor	Extended ATX
Dimensions	12" x 13" (30.5cm x 33cm)

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 5600 Series (Westmere) Intel® Xeon®Processor 5500 Series (Nehalem-EP)
QPI	up to 6.4 GT/s

System Memory

	12x 240-pin DIMM sockets Supports up to 192 GB 1333 / 1066 / 800MHz DDR3 ECC Registered memory

Chassis (Optimized for X8DAE)

Tower / 4U Rackmount	CSE-747TG-R1400B-SQ
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 slots 2 (x4) PCI-E 2.0 (in x8 slot) 1 (x4) PCI-E (in x8 slot)
PCI-X	3x 133/100MHz PCI-X slots

System BIOS

BIOS Type	32Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	Plug and Play (PnP) PCI 2.2 ACPI up to 3.0 USB Keyboard support

Management

Software	Super Doctor III
Power	ACPI / ACPM Power Management

Memory Capacity	▪ Supports up to 48 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 (SDDC)

On-Board Devices

Chipset	▪ Intel® 5520 (Tylersburg) chipset ▪ ICH10R + IOH-36D
SATA	▪ Intel ICH10R SATA 3.0Gbps Controller ▪ RAID 0, 1, 5, 10 support (Windows) ▪ 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 ALC888 7.1 HD audio
Super I/O	▪ Winbond 83627DHG chip

Input / Output

Serial ATA	▪ Six Serial ATA ports ▪ Six SATA hard drives supported
LAN	▪ 2x RJ45 LAN ports
USB	▪ 4x USB rear ports ▪ 4x USB internal headers ▪ Total 9 USB 2.0 Compliant
Audio	▪ Realtek ALC888 7.1 HD audio
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports
Serial Port	▪ 2 Fast UART 16550 serial ports
Firewire	▪ 2x IEEE 1394a headers

OS Compatibility

• Please see our **OS Compatibility Chart**

Configurations	

PC Health Monitoring

CPU	▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. ▪ 6-Phase-switching voltage regulator
FAN	▪ Total of eight fan headers supporting up to 8 fans ▪ Eight 4-pin fan headers ▪ 8x 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
X8DAE	MBD-X8DAE-O	1	X8DAE Motherboard
I/O Cable 1	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Cable 2	CBL-0173L	1	INTERNAL TO EXTERNAL FOR 1394 CONNECTOR,PBF
I/O Cable 3	CBL-022L	1	ATX FLOPPY CABLE 3 HEADERS PB FREE
Driver Disk	CDR-X8	1	DRIVER CD FOR X8 MOTHERBOARD
I/O Shield	MCP-260-74301-0N	1	IO SHIELD W/ 4XUSB & 2X3 AUDIO (WORKSTATION)
Manual	MNL-1138	1	X8DA6-X/ X8DAI-X/ X8DA6/ X8DAE MANUAL

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

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