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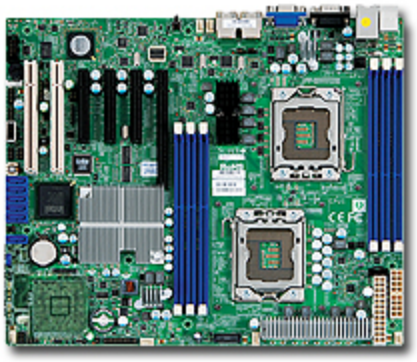
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The Wayback Machine - https://web.archive.org/web/20110902041643/http://www.supermicro.com:80/products/motherboard/QPI/5500/X8DTL...

X8DTL-iF



ATX 12"x10", Xeon Tylersburg ServerBoard

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. 2 (x8) PCI-E 2.0 (1 in x16 slot), 1 (x4) PCI-E 2.0 (in x8 slot), 1 (x4) PCI-E (in x8 slot), 2x PCI 33MHz slots
7. Integrated Matrox G200eW Graphics
8. Integrated IPMI 2.0 with Dedicated LAN

Links & Resources

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

RoHS 6/6 COMPLIANT

Specifications

Product SKUs

MBD-X8DTL-iF -O	▪ X8DTL-iF (Standard Retail Pack)
MBD-X8DTL-iF -B	▪ X8DTL-iF (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 5600 Series (Westmere) ▪ Intel® Xeon®Processor 5500 Series (Nehalem-EP)
QPI	▪ up to 6.4 GT/s

System Memory

Memory Capacity	▪ 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 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	▪ 1GB, 2GB, 4GB , 8GB** , 16GB**

Chassis (Optimized for X8DTL-iF)

1U Chassis	▪ CSE-111T-560CB ▪ CSE-113MTQ-560CB ▪ CSE-512F-520B ▪ CSE-512F-520LB ▪ CSE-512F-600B ▪ CSE-811L-600B ▪ CSE-811TQ-520B ▪ CSE-811TQ-600B ▪ CSE-813MTQ-350C ▪ CSE-813MTQ-520C ▪ CSE-813MTQ-600CB
2U Chassis	▪ CSE-213A-R900LPB ▪ CSE-216A-R900LPB ▪ CSE-216E1-R900LPB ▪ CSE-216E16-R1200LPB ▪ CSE-216E2-R900LPB ▪ CSE-523L-520B ▪ CSE-823MTQ-R700LPB ▪ CSE-823TQ-650LPB ▪ CSE-825MTQ-R700LPB ▪ CSE-825TQ-560LPB ▪ CSE-825TQ-563LPB ▪ CSE-825TQ-R700LPB ▪ CSE-825TQ-R720LPB ▪ CSE-826A-R1200LPB ▪ CSE-826E1-R800LPB ▪ CSE-826E2-R800LP ▪ CSE-826TQ-R800LPB
3U Chassis	▪ CSE-833T-550B ▪ CSE-833T-650B ▪ CSE-833T-R760B ▪ CSE-835TQ-R800B ▪ CSE-835TQ-R920B ▪ CSE-836A-R1200B ▪ CSE-836E1-R800B ▪ CSE-836E2-R800B ▪ CSE-836TQ-R800B

Memory Voltage	▪ 1.5 V
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® 5500 (Tylersburg) chipset ▪ ICH10R + IOH-24D
SATA	▪ Intel ICH10R SATA 3.0Gbps Controller ▪ RAID 0, 1, 5, 10 support (Windows) ▪ RAID 0, 1, 10 support (Linux)
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Winbond® WPCM450 BMC*
Network Controllers	▪ 2x Intel® 82574L Gigabit Ethernet Controllers ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	▪ Matrox G200eW
Super I/O	▪ Winbond® 83627DHG-P chip

Input / Output

Serial ATA	▪ Six Serial ATA ports ▪ Six SATA hard drives supported
LAN	▪ 2x RJ45 LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	▪ 2x USB rear ports ▪ 1x USB on-board ▪ 2x USB internal headers ▪ Total 5 USB 2.0 Compliant
VGA	▪ 1x VGA Port
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports
Serial Port / Header	▪ 1 Fast UART 16550 serial port ▪ 1 Fast UART 16550 serial header (Option)

	▪ CSE-933E1-R760B ▪ CSE-933E2-R760B ▪ CSE-933T-R760B ▪ CSE-936A-R1200B ▪ CSE-936A-R900B ▪ CSE-936E1-R900
Mid-Tower	▪ CSE-733E-465B ▪ CSE-733i-465B ▪ CSE-733T-465B ▪ CSE-733TQ-465B ▪ CSE-733TQ-665B
Tower / 4U Rackmount	▪ CSE-743i-R760 ▪ CSE-743T-665B ▪ CSE-743T-R760 ▪ CSE-743TQ-865B ▪ CSE-743TQ-865B-SQ ▪ CSE-743TQ-R760 ▪ CSE-745TQ-800B ▪ CSE-745TQ-920B ▪ CSE-745TQ-R800B ▪ CSE-846A-R1200B ▪ CSE-846E1-R900B ▪ CSE-846E2-R900 ▪ CSE-846TQ-R900B ▪ CSE-847E1-R1400LPB ▪ CSE-847E2-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	▪ 2 (x8) PCI-E 2.0 (1 in x16 slot) ▪ 1 (x4) PCI-E 2.0 (in x8 slot) ▪ 1 (x4) PCI-E (in x8 slot)
PCI	▪ 2x 33MHz PCI 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	▪ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support ▪ Super Doctor III
Power Configurations	▪ ACPI / ACPM Power Management

PC Health Monitoring

CPU	▪ 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	▪ 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 6x fan connectors ▪ PECI
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header

Operating Environment / Compliance

RoHS	RoHS 6/6 COMPLIANT

	▪ 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
X8DTL-iF	MBD-X8DTL-iF -O	1	X8DTL-iF Motherboard
I/O Cable 1	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
Driver Disk	CDR-X8	1	DRIVER CD FOR X8 MOTHERBOARD
I/O Shield	MCP-260-00027-0N	1	STD I/O SHIELD FOR X8, H8, X7SB3 SERVER MB (3RD LAN + 4XLAN)
Manual	MNL-1076	1	X8DTL-3/I MANUAL

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

** Please check '**Tested Memory List**' for compatibility

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