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X7DAE

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Key Features

1. Quad & Dual Core Intel® 64-bit Xeon® Support, 667 / 1066 / 1333MHz FSB

2. Intel® 5000X (Greencreek) Chipset

3. Up to 32GB 667/533MHz DDR2 ECC FB-DIMM (Fully Buffered DIMM)

4. Intel® (ESB2/Gilgal) 82563 Dual-port Gigabit Ethernet Controller

5. 6x SATAII Ports via ESB2 Controller

6. 1 (x16) & 1 (x4 in x16) PCI-Express, 2x 64-bit 133/100MHz PCI-X, 1x 64-bit 100MHz PCI-X, 1x 32-bit PCI 33MHz

7. Low Profile IPMI 2.0 (SIMLP) Slot

- Industry First Xeon Dual-Core Greencreek Workstation MainBoard

Links & Resources

▶ Tested Memory List

▶ Motherboard Manual

▶ Update Your BIOS

▶ Download the Latest Drivers and Utilities

Specifications

Product SKUs

| MBD-X7DAE-O | - X7DAE (Standard Retail Pack) |
| MBD-X7DAE-B | - X7DAE (Bulk Pack) |

Physical Stats

| Form Factor | - Extended ATX |
| Dimensions | - 12" x 13.05" (30.5cm x 33.2cm) |

Processor/Cache

CPU	- Dual 771-pin LGA Sockets
	- Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below:
	  - Quad-Core Intel® Xeon®Processor 5400/5300 sequence (Harpertown /Clovertown processor) up to 3.16 GHz
	  - Dual-Core Intel® Xeon®Processor 5200/5100/5000 sequence (Wolfdale /Woodcrest/Dempsey processor) up to 3.40 GHz

System Bus	- 1333 / 1066 / 667 MHz system bus
Operating System Software	- Supports 64-bit Operating Systems - Supports 32-bit Operating Systems

System Memory

Memory Capacity	- Eight 240-pin DIMM sockets - Supports up to 32 GB 667 / 533MHz DDR2 ECC FB-DIMM memory - Dual branch memory bus - Memory must be populated in pairs - Memory Mirroring supported
Memory Type	- 667 / 533MHz FB-DIMM (Fully Buffered DIMM) DDR2 ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	- 512 MB, 1GB, 2GB, 4GB
Memory Voltage	- 1.8V only - 1.5V(AMB)
Error Detection	- Corrects single-bit errors - Detects double-bit errors (using ECC memory)

Chassis (Optimized for X7DAE)

2U Chassis	- CSE-825TQ-R700LPV - CSE-825TQ-560LPV - CSE-823T-550LP - CSE-823i-550LP
Tower / 4U Rackmount	- CSE-743T-645 (FAN-0091 Required) - CSE-743i-645 (FAN-0091 Required)
Important Chassis Notes	To ensure system stability, a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]

Expansion Slots

PCI-Express	- 1 (x16) PCI-e slot - 1 (x4) PCI-et (using x16) slot
PCI-X	- 2x 64-bit 133/100MHz PCI-X (3.3V) slots - 1x 64-bit 100MHz PCI-X (3.3V) slot
PCI	- 1x 32-bit 33MHz PCI (5V) slot

System BIOS

| BIOS Type | - 8Mb Flash EEPROM with Phoenix® BIOS |
| BIOS Features | - Plug and Play (PnP)
- SMBIOS 2.3
- DMI 2.1
- PCI 2.2
- ACPI 1.0
- PCI-X 1.0
- USB Keyboard support
- Hardware BIOS Virus protection |

Management

| Software | - Optional IPMI (Intelligent Platform Management Interface) v2.0
- SuperDoctor® III
- Watch Dog
- NMI |
| Power Configurations | - ACPI Power Management
- Wake-On-Ring (WOR) header
- Wake-On-LAN (WOL) header
- Power-on mode for AC power recovery
- Internal/External modem remote ring-on |

PC Health Monitoring

| Voltage | - Monitors for CPU Cores, +1.8V, +3.3V, +5V, -12V & +5V Standby, VBAT
- CPU Core 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V |

- Supports Intel® x4 and x8 Single Device Data Correction (SDDC)

On-Board Devices

Chipset	- Intel® 5000X (GreenCreek) chipset - MCH + PXH-V + ESB2
SATA	- ESB2 SATAII Controller - RAID 0, 1, 5, 10 support (Windows Only) - RAID 0, 1, 10 support (Linux)
IPMI	- Support for Intelligent Platform Management Interface v.2.0 - 200-pin IPMI slot (SIMLP) - (Optional: AOC-SIMLP-B) - (Optional: AOC-SIMLP-3) with 3rd LAN support - NOTE: KVM-over-LAN not supported - there is no DVO signal to the IPMI slot
Network Controllers	- Intel® (ESB2/Gilgal) 82563EB Dual-Port Gigabit Ethernet Controller - Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output - Intel® I/OAT support for fast, scaleable, and reliable networking
Super I/O	- Winbond 83627HF chip
Clock Generator	- CK410B chip

Input / Output

Serial ATA	- Six Serial ATA ports - Six SATA hard drives supported
IDE	- Single EIDE channel supports up to two UDMA IDE devices(IDE-M, IDE-S) including CF card - Supports UDMA Mode 5, PIO Mode 4, and ATA/100 - Compact Flash (40-pin connector, IDE 1, single channel) slot
Floppy	- 1 Floppy controller; 1.44 MB, 2.88 MB
LAN	- 2x RJ45 LAN ports
USB	- 4x USB rear ports - 1x USB internal header - 6 total USB ports, 2.0 Compliant / 1.1 Compliant
Audio	- AC97 Audio
Keyboard / Mouse	- PS/2 keyboard and mouse ports
Serial Port / Header	- 1 Fast UART 16550 serial port - 1 Fast UART 16550 serial header
Parallel Port	- 1 ECP / EEP parallel port

FAN	- Total of eight 4-pin fans - 8x fans with status monitoring - Status monitor for speed control - Support 3-pin fans - Low noise fan speed control
Temperature	- Monitoring for CPU and chassis, environment - CPU thermal trip support - PSU I^{2}C temperature sensing logic - Thermal Monitor 2 (TM2) support
LED	- CPU / System Overheat LED
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)

OS Compatibility

- Please see our **OS Compatibility Chart**

Regulatory

FCC	- Class B

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

Parts List

Parts List

	Part Number	Qty	Description
X7DAE	MBD-X7DAE-O	1	X7DAE Motherboard
Manual(s)	MNL-0831	1	Motherboard Manual for X7DAE
I/O Cables	CBL-0022L	1	ATX Floppy Cable
	CBL-0036L-03	1	ATA 66/100 IDE LP Cable
	CBL-0044L	6	2ft. Amphenol, SATA Cable
Driver Disk	CDR-X7	1	Version 1.01 CD or later
I/O Shield	CSE-PT53L REV. B	1	Motherboard I/O Shield

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