

X7DBE

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Key Features

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

2. Intel® 5000P (Blackford) Chipset

3. Up to 32GB DDR2 667 & 533 SDRAM Fully Buffered DIMM (FB-DIMM)

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

5. 6x SATA 3.0Gbps Ports via ESB2 Controller SATA Controller

6. 2 (x8) & 1 (x4) PCI-Express, 2x 64-bit 133MHz PCI-X, 1x 64-bit 100MHz PCI-X

7. ATI ES1000 Graphics with 16MB video memory

8. SIMLP IPMI 2.0

Links & Resources

> [Tested Memory List](#)

> [Motherboard Manual](#)

> [Update Your BIOS](#)

> [Download the Latest Drivers and Utilities](#)



Specifications	
Product SKUs MBD-X7DBE-O X7DBE (Standard Retail Pack) MBD-X7DBE-B X7DBE (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 NOTE: Motherboard PCB revision 2.0 or above is required to support Xeon® 5100 (Woodcrest) processors 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) ECC DDR2 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) Supports Intel® x4 and x8 Single Device Data Correction (SDDC) On-Board Devices Chipset Intel® 5000P (Blackford) chipset MCH + PXH + ESB2 SATA Intel ESB2 SATA 3.0Gbps Controller RAID 0, 1, 5, 10 support (Windows Only) RAID 0, 1, 10 support (Linux) IPMI Support for Intelligent Platform Management Interface v2.0 200-pin IPMI slot (SIMLP) (Optional: AOC-SIMLP-B(+)) (Optional: AOC-SIMLP-3(+)) with 3rd LAN support 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, scalable, and reliable networking Graphics ATI ES1000 controller with 16 MB of video memory Super I/O Vinbond 83627HG 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(Compact Flash) Card Compact Flash (40-pin connector, IDE 1, single channel) slot Supports UDMA Mode 5, PIO Mode 4, and ATA/100 Floppy 1 Floppy controller; 1.44 MB, 2.88 MB LAN 2x RJ45 LAN ports USB 2x USB rear ports 3x USB internal headers Total 5 USB 2.0 Compliant / 1.1 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 Parallel Port 1 ECP / EEP parallel port 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 USB Keyboard support Hardware BIOS Virus protection	Chassis (Optimized for X7DBE) 2U Chassis CSE-825TQ-R700LPV CSE-825TQ-560LPV CSE-825TQ-560RCV CSE-825TQ-R700RCV CSE-823T-550LP CSE-823I-550LP 3U Chassis CSE-833T-R760 (SIMLC Support only) CSE-833T-550 (SIMLC Support only) Tower / 4U Rackmount CSE-745TQ-R800 CSE-745TQ-800 CSE-743TQ-R760 CSE-743T-R760 CSE-743I-R760 CSE-743T-650 CSE-743I-650 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 2 (x8) PCI-e slots 1 (x4) PCI-e (using x8) slot 1 SEPC (Supermicro PCI-e Power Connector) slot for 2U active riser cards with a power extension (i.e. CSE-RR2UE-AX) PCI-X 2x 64-bit 133MHz PCI-X (3.3V) slots 1x 64-bit 100MHz PCI-X (3.3V) slot Management Software Optional IPMI (Intelligent Platform Management Interface) 2.0 SuperDoctor® III VWatch Dog NMI Power Configurations ACPI Power Management Main Switch Override Mechanism Wake-On-Ring (WVOR) header Wake-On-LAN (WVOL) header Power-on mode for AC power recovery Internal / External modem remote ring-on PC Health Monitoring Voltage Monitors for CPU Cores, +3.3V, +5V, +5V Standby, & ±12V 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V FAN Total of four 3-pin and four 4-pin fan headers supporting up to 8 fans 8x fans with tachometer status monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors Temperature Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x fan connectors PSU i²C temperature sensing logic Thermal Monitor 2 (TM2) support LED CPU / System Overheat LED Other Features Chassis intrusion detection Chassis intrusion header SDDC Support Operating Environment / Compliance RoHS  RoHS Compliant 5/6, Server Exemption 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

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
X7DBE	MBD-X7DBE-O	1	X7DBE Motherboard
I/O Cable 1	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Cable 2	CBL-0083L	1	15.7" USB 2.0 2-PORT WKEY
I/O Cable 3	CBL-010L	1	9 PIN SERIAL PORT DTK CABLE, LF
I/O Cable 4	CBL-022L	1	ATX FLOPPY CABLE 3 HEADERS PB FREE
I/O Cable 5	CBL-036L-03	1	18" ATA 133/100/66 3-DROP TPE CABLE, PBF
I/O Shield	CSE-P17L	1	I/O SHIELD FOR DUAL LAN MOTHERBOARD, PB FREE
Manual	MNL-0832	1	X7DB8 / X7DBE MANUAL

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