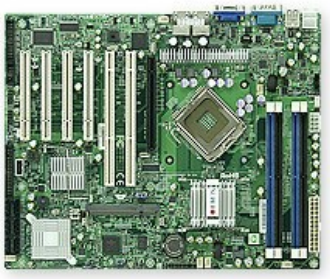
X7SBA



- RoHS Compliant
- Best Thermal Optimized Design
- Most Cost Effective LAN Solution

Key Features

1. Intel® Xeon® 3000 Sequence and Core™ 2 Quad / Duo Series in LGA775 Package (FSB 1333/1066/800 MHz)
2. Intel® 3210 + ICH9R Chipset
3. Up to 8GB unbuffered ECC / non-ECC DDR2 800/667 SDRAM
4. 1x Intel® 82573V PCI-E Gigabit LAN
   1x Intel® 82573L PCI-E Gigabit LAN
5. Built-in SATA ICH9R Controller
   6x SATA (3 Gbps) Drive with RAID 0, 1, 5, 10 Support
6. 1 (x8) PCI-Express (using x16 slot),
   2 64 bit PCI-X 133 / 100,
   4 32 bit PCI slots
7. On-board XGI Z9S 32MB Graphics
8. IPMI 2.0 Support

Links & Resources

- Tested Memory List
- Motherboard Manual
- Quick Reference Guide
- Update Your BIOS
- Download the Latest Drivers and Utilities

Specifications

Product SKUs	
MBD-X7SBA-O	X7SBA (Standard Retail Pack)
MBD-X7SBA-B	X7SBA (Bulk Pack)

Physical Stats	
Form Factor	ATX
Dimensions	12" x 9.6 " (30.5cm x 24.4cm), 6 layers

Processor/Cache	
CPU	Single LGA775 ZIF Socket Supports Quad-Core **Intel® Xeon® X3300/X3200** series Supports Dual-Core **Intel® Xeon® E3100/3000** series Supports **Intel® Xeon® processor L3360 and L3110** series Supports **Intel® Core™2 Quad Q9000/Q8000/Q6000** series Supports **Intel® Core™2 Duo E8000/E7000/E6000/E4000** series Supports **Intel® Pentium® E5000/E2000** series Supports **Intel® Celeron® E1000 and 400** series **NOTE: Intel Xeon processor L3014 requires an LGA771 socket and is not supported.**
System Bus	1333 / 1066 / 800 MHz system bus

System Memory	
Memory Capacity	Four 240-pin DIMM slots Supports up to 8 GB of unbuffered ECC / non-ECC DDR2 667/800MHz memory (Dual Channel)
Memory Type	DDR2 800/667MHz unbuffered ECC / non-ECC SDRAM, 240-pin gold-plated DIMMs
DIMM Sizes	256 MB, 512 MB, 1 GB, 2GB
Memory Voltage	1.8V only

On-Board Devices	
Chipset	Intel® 3210 chipset ICH9R + PXH/Vchipset
Serial ATA	Intel® ICH9R SATA2 (3 Gbps) controller built-in RAID 0, 1, 5, 10 support (Windows Only) RAID 0, 1, 10 support (Linux)

Chassis (Optimized for X7SBA)	
2U Chassis	CSE-822T-400LPB CSE-823T-R500LP CSE-825MTQ-R700LPB
Mid-Tower	CSE-733E-465B CSE-733i-465B CSE-733T-465B CSE-733TQ-465B
Tower / 4U Rackmount	CSE-743TQ-865B

Expansion Slots	
PCI-Express	1 (x8) PCI-E (using x16) slot
PCI-X	2x 64-bit 133 / 100MHz PCI-X (3.3V) slot
PCI	4x 32-bit 33MHz PCI (5V) slot

System BIOS	
BIOS Type	16Mb Flash EEPROM with Phoenix BIOS®
BIOS Features	Plug and Play (PnP) DMI 2.3 support PCI 2.2 ACPI 1.0/2.0 USB Keyboard support SMBIOS 2.3

Management	
Software	IPMI (Intelligent Platform Management Interface) 1.5 / 2.0 SuperDoctor® III Watch Dog NMI W83793 H/W Monitor
Power Configurations	ACPI/APM Power Management Main Switch Override Mechanism Wake-On-Ring (WOR) header Wake-On-LAN (WOL) header Keyboard Wakeup from Soft-Off Power-on mode control for AC power loss recovery Internal / External Modem Rign-on

PC Health Monitoring	
Voltage	Monitors for CPU Cores +1.8V, +3.3V, +5V, ±12V, 3.3V Standby, 5V Standby, VBAT CPU 4-Phase-switching voltage regulator with auto-sense from 0.8375V-1.6000V Adjustable CPU clock frequency ratio (Only available if CPU is supported)
	Total of six 4-pin fan headers

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IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ SIMSO Slot - Supermicro Intelligement Management ▪ (Optional: AOC-SIMSO-HTC)
Network Controllers	▪ 1x Intel® 82573V Gigabit PCI-Express Ethernet ▪ 1x Intel® 82573L Gigabit PCI-Express Ethernet ▪ Supports 10Base-T, 100Base-TX, 1000BASE-TX, RJ45 output
VGA	▪ On-board XGI Z9S 32MB Graphics
Super I/O	▪ Winbond 83627HF chip
Clock Generator	▪ CK505
Input / Output	
Serial ATA	▪ Six Serial ATA ports (3 Gbps performance) ▪ Six SATA hard drives supported
Floppy	▪ 1 Floppy controller; 1.44 MB
LAN	▪ 2 x RJ45 LAN port
USB	▪ 7x USB 2.0 / 1.1 compatible ▪ 2 rear + 1 Type A connectors + 2 headers (4 ports)
VGA	▪ 1x VGA Port
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports
Serial Ports	▪ 1x Fast UART 16550 serial port ▪ 1x Header
Parallel Ports	▪ 1x ECP/EEP Parallel Header

FAN	▪ 6 fans with tachometer monitoring ▪ Status monitor with firmware speed control ▪ Low noise fan speed control ▪ Status monitor for on/off control ▪ Support 3-pin fans (without speed control) ▪ Pulse Width Modulated (PWM) fan connector
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ Thermal Monitor 2 (TM2) support ▪ PECI
LED	▪ CPU / System Overheat LED ▪ Standby Power alert LED
Other Features	▪ Chassis Intrusion Detection ▪ Chassis Intrusion Header
Operating Environment	
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

Standard Retail Package			
	Part Number	**Qty**	**Description**
X7SBA	MBD-X7SBA-O	1	X7SBA Motherboard
Quick Reference Guide	MNL-0976-QRG	1	X7SBA Quick Reference Guide
I/O Cables	CBL-0022L	1	ATX Floppy Cable
	CBL-0044L	6	SATA Cable (2Ft.)
I/O Shield	CSE-PT07L	1	I/O Shield for X7SBA

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

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