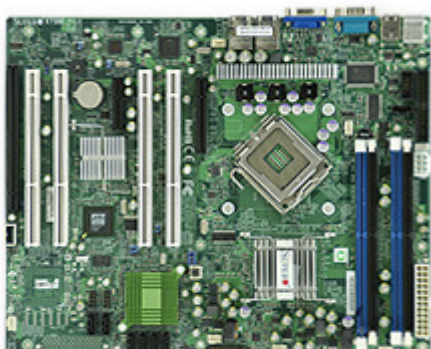


Supermicro X7SBE



- Enterprise MainBoard / ServerBoard
- Best Single CPU Quad-core Server

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. Intel® 82573V + Intel® 82573L PCI-E Gigabit Controllers
5. Built-in SATA ICH9R Controller
6x SATA (3 Gbps) Drive with RAID 0, 1, 5, 10 Support
6. 1 (x8) PCI-Express,
1 (x4) PCI-Express,
2 64 bit 133MHz PCI-X,
2 64 bit 100MHz PCI-X
7. On board ATI ES1000 32MB Graphics
8. SIM1U IPMI 2.0

Product SKUs

-
- | | |
|---------------|--------------------------------|
| MBD-X7SBE - O | • X7SBE (Standard Retail Pack) |
| MBD-X7SBE - B | • X7SBE (Bulk Pack) |

Physical Stats

-
- | | |
|-------------|--|
| Form Factor | <input type="checkbox"/> ATX |
| Dimensions | <input type="checkbox"/> 12" x 9.6 ", (30.48cm x 24.38 cm) |

Processor/Cache

-
- | | |
|-----|---|
| CPU | <ul style="list-style-type: none">• Single LGA775 ZIF Socket• Supports a Quad-Core Intel® Xeon® 3300/3200 series processor• Supports a Dual-Core Intel® Xeon® E3100/3000 series processor |
|-----|---|

- Supports an **Intel® Core™2 Quad Q9000/Q6000 series** processor
- Supports an **Intel® Core™2 Duo E8000/E6000 series** processor
- Supports an **Intel® Pentium® dual-core E2000 series** processor
- Supports an **Intel® Celeron® 400 series** processor

System Bus

- 1333 / 1066 / 800 MHz system bus

System Memory

- Memory Capacity
 - Four 240-pin DIMM sockets
 - Supports up to 8 GB of 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 + Intel® 82573V + Intel® 82573L
- Serial ATA
 - Intel® ICH9R SATA controller built-in (3 Gbps)
- IPMI
 - Support for Intelligent Platform Management Interface v.2.0
 - IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN support
 - SIM1U Slot - Supermicro Intelligence Management
 - **(Optional: AOC-SIMLC-HTC, AOC-SIMLC+)**
- Network Controllers
 - 2x Single-port Gigabit PCI-Express Ethernet Controllers
 - Intel® 82573V + Intel® 82573L
 - Supports 10BASE-T, 100BASE-T, 1000BASE-T, RJ45 output
- VGA
 - On-board ATI ES1000 (32MB) graphics
- Super I/O
 - Winbond 83627DHG 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
 - 2x RJ45 LAN ports
- USB
 - Up to 7x USB 2.0 / 1.1 compliant ports
 - 2 rear ports
 - 2 internal headers for 4 USB 2.0/1.1 ports + 1 on-board

VGA	<ul style="list-style-type: none"> • 1x VGA port
Keyboard / Mouse	<ul style="list-style-type: none"> • PS/2 keyboard and mouse ports
Serial Ports	<ul style="list-style-type: none"> • 1x Fast UART 16550 serial port • 1x internal header

Chassis (Optimized for X7SBE)

2U	<ul style="list-style-type: none"> • CSE-822TQ-400LP (CBL-0062L required)
3U	<ul style="list-style-type: none"> • CSE-833T-550 (CBL-0062L required)
Mid-Tower	<ul style="list-style-type: none"> • SC733TQ-465 • SC733T-465 • SC733i-465 • SC733T-645 • SC733i-645
Important Note	<ul style="list-style-type: none"> • For a general system, a 420W (minimum) ATX12V power supply [8-pin +12V AND 24-pin is recommended to assure system stability].

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> • 1 (x8) PCI-e slot • 1 (x4) PCI-e slot
PCI-X	<ul style="list-style-type: none"> • 2 64 bit PCI-X 133 Mhz slot • 2 64 bit PCI-X 100 Mhz slot

System BIOS

BIOS Type	<ul style="list-style-type: none"> • 16Mb Flash EEPROM with Phoenix BIOS®
BIOS Features	<ul style="list-style-type: none"> • Plug and Play (PnP) • DMI 2.3 support • PCI 2.2 • ACPI 1.0/2.0 • SMBIOS 2.3 • USB Keyboard support

Management


Software	<ul style="list-style-type: none"> • Super Doctor III • Watch Dog • NMI • H/W Monitor in W83627DHF(PECI support)
Power Configurations	<ul style="list-style-type: none"> • ACPI 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 remote ring-on
- Suspend to RAM(STR)

PC Health Monitoring

CPU	<ul style="list-style-type: none"> • Monitors for CPU Cores (+1.8V, +3.3V, +5, ±12V, +3.3V Standby, +5V Standby, VBAT, HT, Memory, Chipset) • CPU Core 3-Phase-switching voltage regulator with auto-sense from 0.3750V-1.6000V • Adjustable CPU clock frequency ratio
FAN	<ul style="list-style-type: none"> • Total of six 4-pin fan headers • 6x fans with tachometer monitoring • Status monitor with firmware / software speed control • Status monitor for on/off control • Support 3-pin fans (without speed control) • Low noise fan speed control • Pulse Width Modulated (PWM) fan connector
Temperature	<ul style="list-style-type: none"> • Monitoring for CPU and chassis environment • CPU Thermal Trip support • Thermal Monitor (TM2) Support • PECI
LED	<ul style="list-style-type: none"> • CPU / System Overheat LED • Suspend-state indicator LED • +5 Standby alert LED
Other Features	<ul style="list-style-type: none"> • Chassis intrusion detection • Chassis intrusion header

Operating Environment / Compliance

RoHS	 <ul style="list-style-type: none"> • RoHS Compliant 6/6, Pb Free
Environmental Spec.	<ul style="list-style-type: none"> • 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)