X8STi

Key Features

1. Intel® Core™ i7 / i7 Extreme Edition, and Intel® Xeon® 5600/5500/3600/3500 series processors (QPI up to 6.4 GT/s)
2. Intel® X58 Express Chipset
3. Up to 24GB DDR3 1333, 1066 & 800 ECC / non-ECC Un-Buffered DIMM
4. Dual Intel® 82574L Gigabit Ethernet Controller
5. 6x SATA (3.0Gbps) Ports RAID 0, 1, 5, 10
6. 1 (x16) PCI-Express 2.0, 1 (x8) PCI-Express, 1x 32-bit PCI Slot
7. Integrated Graphics
8. 8x USB (2 rear, 2 on-board, 2 headers)

Links & Resources

▸ Tested Memory List

▸ Tested HDD / SSD List

▸ Motherboard Manual

▸ Update Your BIOS

▸ Download the Latest Drivers and Utilities

▸ Download Driver CD

Specifications

Product SKUs - **Discontinued SKU (EOL). Please contact sales-rep for alternative options.**

MBD-X8STi - O	X8STi (Standard Retail Pack)
MBD-X8STi - B	X8STi (Bulk Pack)

Physical Stats

Form Factor	ATX
Dimensions	12" x 9.6" (30.5cm x 24.4cm)

Processor/Cache

CPU	LGA 1366 Socket **Intel® Core™ i7-980X, i7-975 and i7-965** Extreme Edition **Intel® Core™ i7** series **Intel® Xeon® 5600/5500** series **Intel® Xeon® 3600/3500** series
System Bus	QPI (up to 6.4 GT/s)

System Memory

Memory Capacity	Supports up to 24 GB 1333 / 1066 / 800MHz DDR3 ECC / non-ECC Un-Buffered memory Three Channel memory bus 6 DIMM sockets
Memory Type	1333 / 1066 / 800MHz Un- Buffered ECC / non-ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	256MB, 512MB, 1GB, 2GB, 4GB
Memory Voltage	1.5 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

Chassis (Optimized for X8STi)

1U Chassis	CSE-512-200B CSE-811TQ-260 CSE-811TQ-280 CSE-813MTQ-280C
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	1 (x16) PCI-e 2.0 slot 1 (x8) PCI-e slot
PCI	1x 32-bit PCI slot

System BIOS

BIOS Type	32Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	DMI 2.3 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3

Management

Software	SuperDoctor® III Watch Dog NMI
Power Configurations	ACPI / ACPM Power Management Main Switch Override Mechanism Wake-On-LAN (WOL) header Keyboard Wakeup from Soft-Off Power-on mode for AC power recovery Internal/External modem ring-on

PC Health Monitoring

Voltage	Monitors for CPU Cores, +1.8V, +3.3V,

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

+5V, ±12V, +3.3V Standby, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
- 6-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V

On-Board Devices

Chipset	• Intel® X58 Express chipset • ICH10R
SATA	• Intel ICH10R SATA (3.0Gbps) Controller • RAID 0, 1, 5, 10 support (Windows) • RAID 0, 1, 10 support (Linux)
Network Controllers	• 2x Intel® 82574L Gigabit Ethernet Controllers • Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
VGA	• Matrox G200eW 16 MB DDR2
Super I/O	• Winbond 83627DHG chip
Clock Generator	• CK505

Input / Output

Serial ATA	• 6 SATA ports • 6 SATA hard drives supported
Floppy	• 1 Floppy controller; 1.44 MB
LAN	• 2x RJ45 LAN ports
USB	• 2x USB rear ports • 2x USB on-board • 2x USB internal header(4 ports) • Total 8 USB 2.0 Compliant
VGA	• 1x VGA port
Keyboard / Mouse	• PS/2 keyboard and mouse ports
Serial Port / Header	• 1x Fast UART 16550 serial port • 1x internal header

FAN	• Total of six fan headers supporting up to 6 fans • Six 4-pin fan headers • 6x fans with tachometer status monitoring • Status monitor for speed control • Status monitor for on/off control • Support 3-pin fans (w/o speed control) • Low noise fan speed control • Pulse Width Modulated (PWM) fan connectors
Temperature	• Monitoring for CPU and chassis environment • CPU thermal trip support • FC temperature sensing logic • Thermal Monitor 2 (TM2) support • PECI
LED	• CPU / System Overheat LED • +5V Standby 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)

I/O Panel

• Please see this board's **I/O Panel**

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
X8STi	MBD-X8STi -O	1	X8STi Motherboard
I/O Cables	CBL-022L	1	ATX Floppy Cable
	CBL-0044L	6	2ft. Amphenol, SATA Cable
I/O Shield	MCP-260-00027-0N	1	Motherboard I/O Shield
Quick Reference Guide	MNL-1068-QRG	1	Quick Reference Guide

Optional Parts List

	Part Number	Qty	Description
Heat Sink	SNK-P0037P	-	1U Passive Heatsink for LGA1366 Socket
Heat Sink Bracket	BKT-0023L	-	Bracket for 1U passive heat sink (LGA 1366 socket)
Riser Card	RSC-RR1U-E16	-	1U PCI-E x16 Riser Card
	RSC-RR1U-E8	-	1U PCI-E x8 Riser Card

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