

# C2SBX

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- PCI-E 2.0 Graphics
- DDR3 at 1333 MHz
- Extreme Workstation

## Key Features

1. Intel® Core™ 2 Extreme, Quad, Duo processors in LGA775 Package (FSB 1333/1066/800)
2. Intel® X38 + ICH9R Chipset
3. Up to 8GB dual channel unbuffered, ECC or non-ECC DDR3 1333/1066/800 SDRAM
4. 1x Intel® 82566 PHY PCI-e Gigabit LAN Port
5. Built-in SATA2 Controller  
6x SATA (3Gbps) Drive Support
6. 2 (x16) PCI-Express 2.0, 1 (x1) PCI-e, 2x 64-bit 133 / 100MHz PCI-X, 2x 32-bit PCI, 2x IEEE 1394 headers
7. High Definition 7.1 Channel Audio
8. Total 12 USB 2.0 ports  
6 rear + 2 Type A connectors + 2 headers ( 4 ports )

## Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [Download the Latest Drivers and Utilities](#)

## Specifications

### Product SKUs

- |                    |                                |
|--------------------|--------------------------------|
| <b>MBD-C2SBX-O</b> | ■ C2SBX (Standard Retail Pack) |
| <b>MBD-C2SBX-B</b> | ■ C2SBX (Bulk Pack)            |

### Physical Stats

- |                    |                                 |
|--------------------|---------------------------------|
| <b>Form Factor</b> | ■ ATX                           |
| <b>Dimensions</b>  | ■ 12" x 9.6", (30.5cm x 24.4cm) |

### Processor/Cache

- |            |  |
|------------|--|
| <b>CPU</b> | <ul style="list-style-type: none"> <li>■ Single LGA775 Socket</li> <li>■ Supports Intel® Core™2 Extreme QX9000/QX6000 series</li> <li>■ Supports Intel® Core™2 Quad Q9000/Q8000/Q6000 series</li> <li>■ Supports Intel® Core™2 Duo E8000/E7000/E6000/E4000 series</li> <li>■ Supports Intel® Pentium® E5000/E2000 series</li> <li>■ Supports Intel® Celeron® E1000 and 400 series</li> </ul> |
|------------|--|

- |                   |                                    |
|-------------------|------------------------------------|
| <b>System Bus</b> | ■ 1333 / 1066 / 800 MHz system bus |
|-------------------|------------------------------------|

### System Memory

- |                        |  |
|------------------------|--|
| <b>Memory Capacity</b> | <ul style="list-style-type: none"> <li>■ Four 240-pin DIMM sockets</li> <li>■ Supports up to 8 GB of unbuffered, ECC or non-ECC DDR3 1333/1066/800MHz memory (Dual Channel)</li> </ul> |
| <b>Memory Type</b>     | ■ DDR3 1333/1066/800MHz unbuffered, ECC or non-ECC SDRAM, 240-pin gold-plated DIMMs  |
| <b>DIMM Sizes</b>      | ■ 256 MB, 512 MB, 1 GB, 2 GB   |
| <b>Memory Voltage</b>  | ■ 1.5 V only   |

### On-Board Devices

- |                            |   |
|----------------------------|---|
| <b>Chipset</b>             | <ul style="list-style-type: none"> <li>■ Intel® X38</li> <li>■ ICH9R + PXH/V</li> </ul>   |
| <b>Serial ATA</b>          | <ul style="list-style-type: none"> <li>■ Intel® ICH9R SATA2 (3 Gbps) controller built-in</li> <li>■ RAID 0, 1, 5, 10 support (Windows Only)</li> <li>■ RAID 0, 1, 10 support (Linux)</li> </ul> |
| <b>Network Controllers</b> | <ul style="list-style-type: none"> <li>■ 1x Intel® 82566 Gigabit PCI-Express Ethernet</li> <li>■ Supports 10 BASE-T, 100 BASE-TX, and 1000 BASE-T with RJ45 output</li> </ul>                   |
| <b>Audio</b>               | ■ High Definition 7.1 Channel Audio   |

### Chassis ( Optimized for C2SBX )

- |                  |  |
|------------------|--|
| <b>Mid-Tower</b> | <ul style="list-style-type: none"> <li>■ CSE-733E-465B</li> <li>■ CSE-733i-465B</li> <li>■ CSE-733i-645</li> <li>■ CSE-733T-465B</li> <li>■ CSE-733T-645</li> <li>■ CSE-733TQ-645</li> </ul> |
|------------------|--|

- |                       |   |
|-----------------------|---|
| <b>Important Note</b> | ■ To ensure system stability, a 420W (minimum) ATX power supply [4-pin +12V AND (24-pin) AND 8-pin +12V] is required. |
|-----------------------|---|

### Expansion Slots

- |                    |   |
|--------------------|---|
| <b>PCI-Express</b> | <ul style="list-style-type: none"> <li>■ 2 (x16) PCI-e 2.0 slot</li> <li>■ 1 (x1) PCI-e slot</li> </ul> |
| <b>PCI-X</b>       | ■ 2x 64-bit 133 / 100MHz PCI-X (3.3V) slots   |
| <b>PCI</b>         | ■ 2x 32-bit 33MHz PCI (5V) slots  |

### System BIOS

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

### Management

- |                             |  |
|-----------------------------|--|
| <b>Software</b>             | <ul style="list-style-type: none"> <li>■ <a href="#">Super Doctor III</a></li> <li>■ Watch Dog</li> <li>■ NM</li> </ul>  |
| <b>Power Configurations</b> | <ul style="list-style-type: none"> <li>■ ACPI/APM Power Management</li> <li>■ Main Switch Override Mechanism</li> <li>■ Wake-On-Ring (WOR) header</li> <li>■ Wake-On-LAN (WOL) header</li> <li>■ Keyboard Wakeup from Soft-Off</li> <li>■ Power-on mode control for AC power recovery</li> <li>■ Internal / External modem remote ring-on</li> <li>■ Suspend to RAM (STR)</li> </ul> |

### PC Health Monitoring

- |            |   |
|------------|---|
| <b>CPU</b> | <ul style="list-style-type: none"> <li>■ Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V/+5V Standby, VBAT, HT, Memory, Chipset</li> <li>■ CPU Core 4-Phase-switching voltage regulator with auto-sense from 0.8375V-1.6000V</li> <li>■ Adjustable CPU clock frequency ratio (Only available if CPU is supported)</li> </ul> |
|------------|---|

<b>Super I/O</b>	<ul style="list-style-type: none"> <li>Winbond 83627DHG chip</li> </ul>
<b>Clock Generator</b>	<ul style="list-style-type: none"> <li>ICS9LPRS511</li> </ul>
<b>Input / Output</b>	
<b>Serial ATA</b>	<ul style="list-style-type: none"> <li>Six Serial ATA ports (3 Gbps performance)</li> <li>Six SATA hard drives supported</li> </ul>
<b>IDE</b>	<ul style="list-style-type: none"> <li>One EIDE channel supports up to two UDMA IDE devices</li> <li>ITE8213F chipset</li> </ul>
<b>Floppy</b>	<ul style="list-style-type: none"> <li>1 Floppy controller; 1.44 MB</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>1x RJ45 LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>12x USB 2.0 / 1.1 compatible</li> <li>6 rear + 2 Type A connectors + 2 headers ( 4 ports )</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>High Definition 7.1 Channel Audio</li> <li>Line-in / Line-out / Microphone Ports</li> </ul>
<b>Keyboard / Mouse</b>	<ul style="list-style-type: none"> <li>PS/2 keyboard and mouse ports</li> </ul>
<b>Serial Ports</b>	<ul style="list-style-type: none"> <li>2x Fast UART 16550 serial ports</li> </ul>
<b>Parallel Port</b>	<ul style="list-style-type: none"> <li>1x ECP / EEP Parallel Port</li> </ul>
<b>Firewire</b>	<ul style="list-style-type: none"> <li>2x IEEE 1394 headers</li> </ul>

<b>FAN</b>	<ul style="list-style-type: none"> <li>Total of five 4-pin fan headers</li> <li>5 x fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on / off control</li> <li>Support 3-pin PWM fans (without speed control)</li> <li>Low noise fan speed control</li> <li>Pulse Width Modulated (PWM) fan conn.</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Monitor 2 (TM2) Support</li> <li>PECI</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> <li>Suspend-state indicator LED</li> <li>+5V standby alert LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis intrusion Detection</li> <li>Chassis intrusion Header</li> </ul>
<b>OS Compatibility</b>	
<ul style="list-style-type: none"> <li>Please see our <a href="#">OS Compatibility Chart</a></li> </ul>	

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
<b>C2SBX</b>	MBD-C2SBX-O	1	C2SBX Motherboard
<b>Manual(s)</b>	<a href="#">MNL-0943</a>	1	<a href="#">Motherboard Manual for C2SBX</a>
<b>I/O Cables</b>	CBL-0022L	1	ATX Floppy Cable
	CBL-0036L-03	1	ATA 66/100 IDE LP Cable
	CBL-0044L	6	SATA Cable (2Ft.)
	CBL-0173L	1	Internal to External 1394 Connector
<b>Driver Disk</b>	CDR-C2	1	Version 1.00 (or newer) CD
<b>I/O Shield</b>	MCP-260-00001-00	1	I/O Shield for C2SBX

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