C2SBC-Q

Key Features

1. Intel® Core™ 2 Extreme, Quad, Duo processors in LGA775 Package (FSB 1333/1066/800 MHz)
2. Intel® Q35 + ICH9DO Chipset
3. Up to 8GB dual channel unbuffered, non-ECC DDR2 800/667 SDRAM
4. 1x Intel® 82566DM + 1x Intel® 82573L PCI-e Gigabit LAN Ports
5. Built-in SATA2 Controller 6x SATA (3Gbps) Drive Support
6. 1 (x16), 1 (x4)(using x8 slot) PCI-Express, 5x 32-bit PCI slots
7. High Definition 5.1 Channel Audio
8. 12 USB ports (6 Rear USB Ports + 2 On-Board with 2 Internal Headers)

- Long Life Legacy Support
- Quad Core Desktop System

Links & Resources

- ▶ Tested Memory List
- ▶ Motherboard Manual
- ▶ Update Your BIOS
- ▶ Download the Latest Drivers and Utilities

Specifications

Product SKUs	
MBD-C2SBC-Q - O	▪ C2SBC-Q (Standard Retail Pack)
MBD-C2SBC-Q - B	▪ C2SBC-Q (Bulk Pack)

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

Processor/Cache	
CPU	▪ Single LGA775 Socket ▪ Supports **Intel® Core™2 Extreme QX9000/QX6000** 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
System Bus	▪ 1333 / 1066 / 800 MHz system bus

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

On-Board Devices	
Chipset	▪ Intel® Q35 ▪ ICH9DO
Serial ATA	▪ Intel® ICH9DO SATA2 (3 Gbps) controller built-in ▪ RAID 0, 1, 5, 10 support (Windows Only) ▪ RAID 0, 1, 10 support (Linux)

Chassis (Optimized for C2SBC-Q)	
Mid-Tower	▪ CSE-733E-465B ▪ CSE-733i-465B ▪ CSE-733T-465B ▪ CSE-733TQ-465B
Important Note	▪ To ensure system stability, a 420W (minimum) ATX power supply [4-pin +12V AND (20 or 24-pin)] is required.

Expansion Slots	
PCI-Express	▪ 1 (x16) PCI-e slot ▪ 1 (x4)(using x8) PCI-e slot
PCI	▪ 5x 32-bit 33MHz PCI (5V) slots

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

Management	
Software	▪ Super● Doctor III ▪ Watch Dog ▪ NMI
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 recovery ▪ Internal / External modem remote ring-on ▪ Suspend to RAM (STR)

PC Health Monitoring	
	▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V/+5V Standby, VBAT, HT, Memory, Chipset ▪ CPU Core 3-Phase-switching voltage

Network Controllers	▪ 1 x Intel® 82566DM & Intel® 82573L Dual Port Gigabit PCI-Express Ethernet ▪ Supports 10 BASE-T, 100 BASE-TX, and 1000 BASE-T with RJ45 output	
Audio	▪ Realtek ALC883 High Definition 5.1 Channel Audio	
Video	▪ On board graphics	
Super I/O	▪ 2x Winbond 83627DHG chips	
Clock Generator	▪ CK505	

Input / Output

Serial ATA	▪ Six Serial ATA ports (3Gbps performance) ▪ Six SATA hard drives supported
IDE	▪ One EIDE channel supports up to two UDMA IDE devices ▪ Supports UDMA Mode 5, PIO Mode 4, and ATA/100
LAN	▪ 2x RJ45 LAN port
USB	▪ 12x USB 2.0 / 1.1 compatible (6x rear ports + 2x on-board + 2x headers)
Audio	▪ Realtek ALC883 High Definition 5.1 Channel Audio ▪ Line-in / Line-out / Microphone Ports
VGA	▪ On board VGA port
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports
Serial Ports	▪ 1x Fast UART 16550 serial port ▪ 3x Serial Header
Parallel Port	▪ 1x Parallel Port Header

CPU	regulator with auto-sense from 0.8375V-1.6000V ▪ Adjustable CPU clock frequency ratio (Only available if CPU is supported)
FAN	▪ Total of three 4-pin fan headers ▪ 3 x fans with tachometer monitoring ▪ Status monitor for speed control ▪ Status monitor for on / off control ▪ Support 3-pin PWM fans (without speed control) ▪ Low noise fan speed control ▪ Pulse Width Modulated (PWM) fan conn.
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ Thermal Monitor 2 (TM2) Support ▪ PECI
LED	▪ CPU / System Overheat LED ▪ +5V standby alert LED
Other Features	▪ Chassis intrusion Detection ▪ Chassis intrusion Header

OS Compatibility

• Please see our **OS Compatibility Chart**

Operating Environment / Compliance

RoHS	▪ RoHS Compliant 6/6, Pb Free
Environmental Spec.	▪ Operating Temperature: 0° to 55°C ▪ Non-operating Temperature: -40° to 85°C ▪ Operating Relative Humidity: 15% to 95% (non-condensing) ▪ Non-operating Relative Humidity: 15 to 90% (non-condensing)

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
C2SBC-Q	MBD-C2SBC-Q -O	1	C2SBC-Q Motherboard
Manual(s)	MNL-0983	1	Motherboard Manual for C2SBC-Q
I/O Cables	CBL-0036L-03 CBL-0044L	1 6	ATA 66/100 IDE LP Cable SATA Cable (2Ft.)
Driver Disk	CDR-C2	1	Version 1.02 (or newer) CD
I/O Shield	MCP-260-00013-0N	1	I/O Shield for C2SBC-Q

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