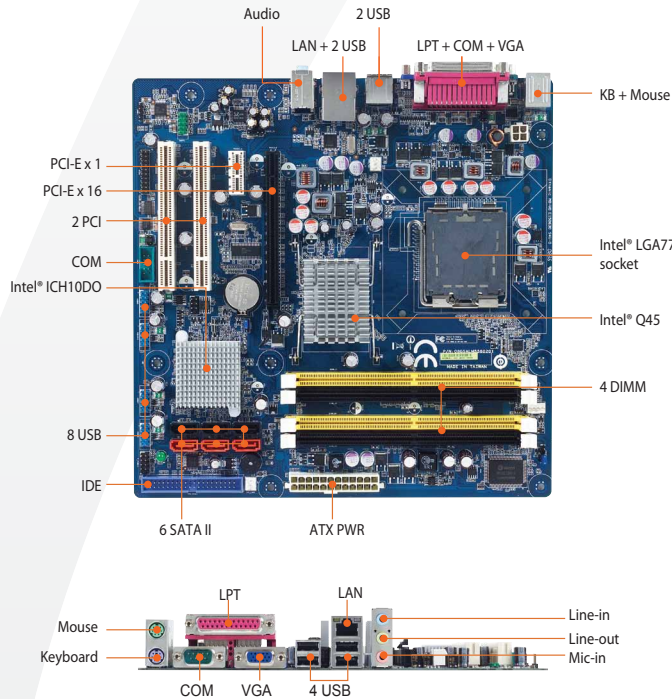


# MX45Q

## Intel® Q45 with Core™2 Quad Micro-ATX Motherboard



### Features

- Socket 775 supports Intel® Core™2 Quad FSB 800/ 1066/ 1333MHz CPU
- Intel® Q45 + ICH10DO Chipset supports Intel AMT 5.0 and vPro
- Four 240-pin DDR2 DIMM 667/ 800MHz, up to 8GB
- Intel Graphic Media Accelerator 4500
- Realtek ALC888, 5.1 + 2 Channel with 2 independent HD Streaming Audio
- Intel 82567LM Gigabit LAN
- 1 PCI-E x 16, 1 PCI-E x 1, 2 PCI, 1 IDE
- 2 COM, 12 USB 2.0, 6 SATA II, 16-bit GPIO, 1 LPT
- 6 SATA II support RAID 0, 1, 5, 10 function
- Intel Integrated TPM 1.2

Intel GMA 4500	PCI-E x 16	PCI-E x 1	PCI
16-bit GPIO	TPM 1.2	iAMT 5.0	vPro
RAID	GbE LAN	5.1 + 2 Audio	

## Specifications

### System

<b>CPU</b>	Intel® LGA775 socket supports Core™2 Quad/ Core™2 Duo/ Celeron® with 45nm process technology
<b>FSB</b>	1333 / 1066 / 800 MHz
<b>BIOS</b>	Award 32Mb SPI BIOS
<b>System Chipset</b>	Intel® Q45 + ICH10DO Chipset
<b>I/O Chip</b>	Winbond W83627DHG-A
<b>System Memory</b>	Four 240-pin DIMM sockets support up to 8GB dual channel DDR2 800/667/533 SDRAM
<b>Watchdog Timer</b>	Reset : 1 to 255 sec/min per step
<b>H/W Status Monitor</b>	Monitoring temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
<b>Expansion</b>	1 PCI-E x 16, 1 PCI-E x 1, 2 PCI (PCI Rev. 2.3 compliant)
<b>Power State</b>	S1, S3
<b>TPM</b>	Intel® Integrated TPM1.2
<b>Wake up on LAN or Ring</b>	LAN (PXE)
<b>SmartFan Control</b>	Supports 3 modes (Silent/ Optimal/ Performance)

### I/O

<b>MIO</b>	1 IDE, 6 SATA II, 2 COM RS-232 (5V/12V), 1 LPT, 1 PS/2 Keyboard, 1 PS/2 Mouse
<b>USB</b>	12 USB 2.0
<b>GPIO</b>	PCA9555 supports 16-bit General Purpose I/O for 8-bit DI and 8-bit DO

### Display

<b>Chipset</b>	Intel Q45 integrated Graphic Media Accelerator 4500
<b>Display Memory</b>	Intel DVM 4.0 supports up to 352 MB video memory
<b>Max. Resolution</b>	2048 x 1536 (@75Hz)
<b>VGA</b>	On board
<b>LVDS</b>	Through ADD2 LVDS Card
<b>DVI</b>	Through ADD2 DVI Card
<b>HDMI</b>	Through ADD2 HDMI Card
<b>2<sup>nd</sup> VGA</b>	Through ADD2 VGA Card

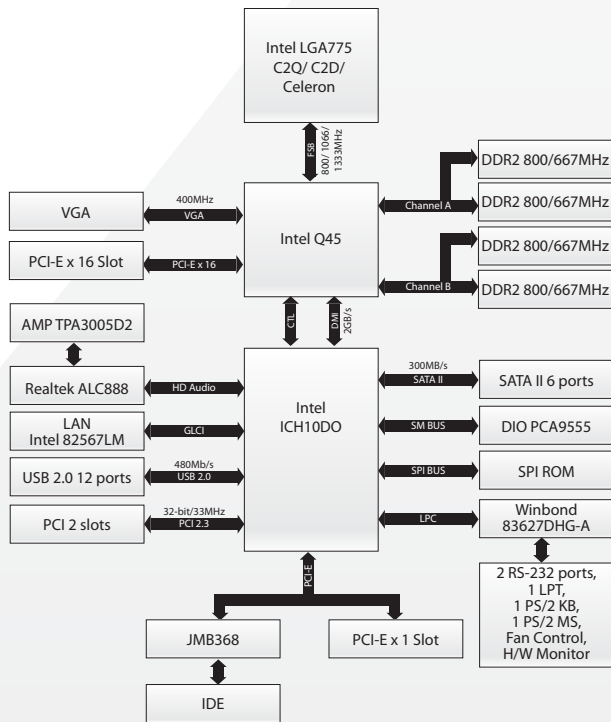
### Audio

<b>Audio Codec</b>	Realtek ALC888, 5.1 + 2 CH HD Audio
<b>Audio Interface</b>	Line-in, Line-out, Mic-in, S/PDIF Out

### Ethernet

<b>LAN</b>	Intel 82567LM Gigabit LAN
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## Block Diagram



### Ordering Information

#### MX45Q

90M-Q45000-10000B2

MX45Q R10 Micro-ATX LGA775 STD

### Product Offering

until 2016

### Packing List

SATA Data Cable	x 3
SATA Power Cable	x 3
COM Cable	x 1
IDE Cable	x 1
I/O Shield	x 1
Driver CD	x 1
Startup Manual	x 1

### Optional Accessory

14GS0300020V04	USB Cable w/ Bracket
14GS0300021V04	USB Cable w/o Bracket

### Back Panel I/O Port

- 1 PS/2 Keyboard
- 1 PS/2 Mouse
- 1 VGA Port
- 1 LPT Port
- 1 COM RS-232 Port
- 1 LAN RJ45 Port
- 4 USB Ports
- Audio I/O (3 jacks)

### Internal I/O Connector

- 4 USB Connectors support 8 USB Ports
- 1 IDE Connector
- 6 SATA Connectors
- 1 CPU Fan Connector
- 1 Chassis Fan Connector
- 1 Power Fan Connector
- 1 Front Panel Header
- 1 S/PDIF Out Header
- 1 Chassis Intrusion Header
- 1 4-pin Audio Amplifier

### Mechanical & Environmental

<b>Power Requirement</b>	+12V	+5V	+3.3V	5VSB
	10.94A	4.22A	1.74A	1.67A

**Power Type** ATX

**Power Connector** 1 24-pin ATX Power Connector  
1 4-pin ATX 12V Power Connector

**Operating Temperature** 0 to 60°C (32 to 140°F)

**Operating Humidity** 0% to 90% relative humidity, non-condensing

**Size (L x W)** 9.6" x 9.6" (243.84 mm x 243.84 mm)

**Weight** 1.35 lbs (0.6 Kg)