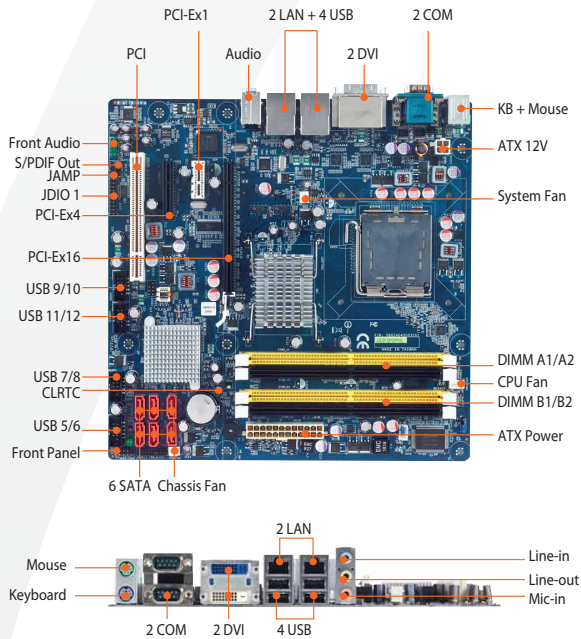


MX45Q2

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 supports dual DVI display function
- Realtek ALC888, 5.1 + 2 Channel with 2 independent HD Streaming Audio
- Intel 82567LM Gigabit LAN supports iAMT 5.0
- 1 PCI-E x 16, 1 PCI-E x 4, 1 PCI-E x 1, 1 PCI 2.3
- 2 COM RS-232 w/ Power, 12 USB 2.0, 16-bit GPIO
- 6 SATA II support RAID 0, 1, 5, 10 function
- Intel Integrated TPM 1.2

Intel GMA 4500	Dual Display	DVI-I	DVI-D
Powered COM	16-bit GPIO	PCI-E x 16	PCI-E x 4
RAID	TPM 1.2	iAMT 5.0	vPro
Dual GbE LAN	PCI-E x 1	PCI	

Specifications

System

CPU	Intel® LGA775 socket supports Core™2 Quad/ Core™2 Duo/ Celeron® with 45nm process technology
FSB	1333 / 1066 / 800 MHz
BIOS	Award 32 Mb SPI BIOS
System Chipset	Intel® Q45 + ICH10DO Chipset
I/O Chip	Winbond W83627DHG-A
System Memory	Four 240-pin DIMM sockets support up to 8GB dual channel DDR2 800/667/533 SDRAM
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 PCI-E x 16, 1 PCI-E x 4, 1 PCI-E x 1, 2 PCI 2.3
Power State	S1, S3, S4
TPM	Intel Integrated TPM1.2
Wake up on LAN or Ring	LAN (PXE)
SmartFan Control	Yes, Intel QST for CPU Fan, SmartFan Control for Chassis Fan and System Fan

I/O

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

Display

Chipset	Intel Q45 integrated Graphic Media Accelerator 4500
Display Memory	Intel DVMT 4.0 supports up to 352 MB video memory
Max. Resolution	2048 x 1536 bpp(@ 75Hz)
Dual Display	DVI-I + DVI-D
VGA	Through ADD2 VGA Card
LVDS	Through ADD2 LVDS Card
DVI	Dual DVI (1 DVI-I, 1 DVI-D)
HDMI	Through ADD2 HDMI Card

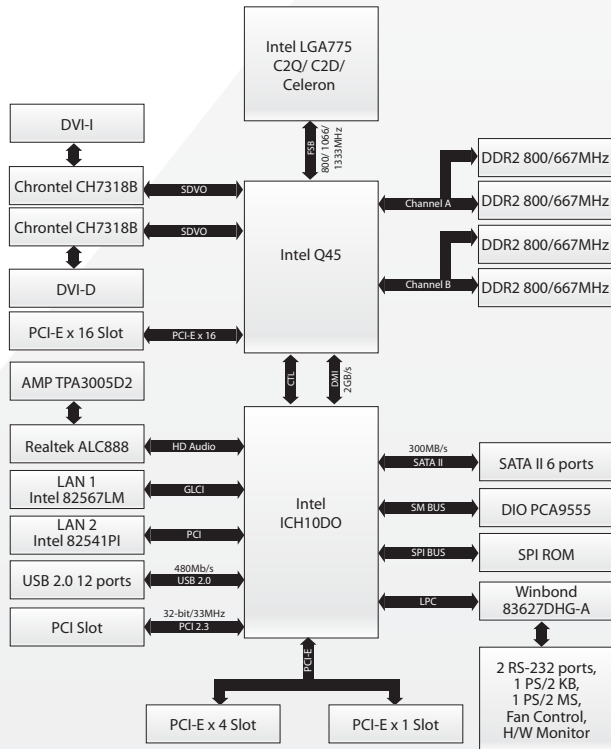
Audio

Audio Codec	Realtek ALC888, 5.1 + 2 CH HD Audio
Audio Interface	Line-in, Line-out, Mic-in, S/PDIF Out
Audio Amplifier(W)	3+3W, TPA3005DA Stereo

Ethernet

LAN1	Intel 82567LM Gigabit LAN supports iAMT 5.0
LAN2	Intel 82541PI Gigabit LAN

Block Diagram



Back Panel I/O Port

- 1 PS/2 Keyboard
- 1 PS/2 Mouse
- 1 DVI-I + DVI-D Double Stack
- 2 COM RS-232 Ports
- 2 LAN RJ45 Ports
- 4 USB Ports
- Audio I/O (3 jacks)

Internal I/O Connector

- 4 USB Connectors support 8 USB Ports
- 6 SATA Connectors
- 1 CPU Fan Connector
- 1 Chassis Fan Connector
- 1 System Fan Connector
- 1 16-bit Digital I/O Connector
- 1 4-pin Audio Amplifier
- 1 Front Panel Header
- 1 S/PDIF Out Header
- 1 Chassis Intrusion Header

Ordering Information

MX45Q2

90M-Q45003-10000B2
MX45Q2 R10 Micro-ATX LGA775 STD

Product Offering

until 2016

Packing List

SATA Data Cable	x 3
SATA Power Cable	x 3
USB Cable w/ Bracket	x 1
I/O Shield	x 1
Driver CD	x 1
Startup Manual	x 1

Product Offering

14GS0000072V04	COM Cable w/ Bracket
14GS0000057V04	COM Cable w/o Bracket

Mechanical & Environmental

Power Requirement	+12V	+5V	+3.3V	5VSB
	11.54A	3.27A	1.68A	2.01A

Power Type AT/ATX mode

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)