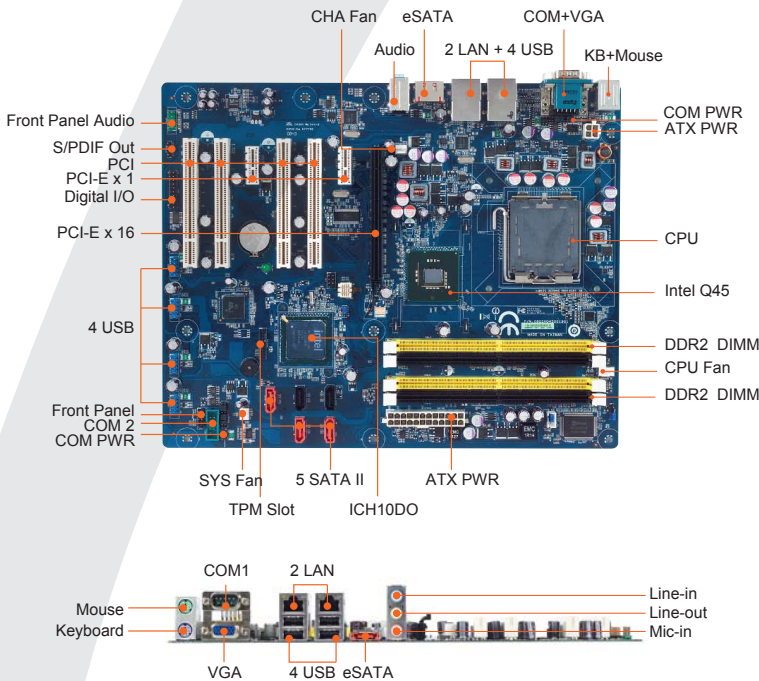


AX45Q

Intel® Q45 with Core™ 2 Quad/ Core™ 2 Duo ATX Motherboard



Features

- Socket 775 supports Intel® Q45 Core™ 2 Quad 45nm CPU
- Intel® Q45 + ICH10DO Chipset
- Four DIMMs up to 8GB DDR2 800 SDRAM
- Intel Graphics Media Accelerator X4500
- Realtek ALC888, 5.1 + 2 Channel HD Streaming Audio
- Dual Realtek RTL8111C Gigabit LAN
- 1 PCI-E x 16, 2 PCI-E x 1, 2 PCI 2.3 32-bit 33/66MHz (TI Bridge), 2 PCI 2.3 33MHz (South Bridge)
- 2 COM, 12 USB 2.0, 5 SATA II, 1 eSATA

Intel GMA X4500

PCI-E x 16

PCI-E x 1

PCI

Dual GbE LAN

eSATA

5.1 + 2 Audio

TPM

Specifications

System

CPU	Intel® LGA775 socket supports Core™2 Quad/ Core™2 Duo/ Celeron® with 45nm process technology
FSB	1333/ 1066/ 800 MHz
BIOS	AMI 32Mb SPI BIOS
System Chipset	Intel® Q45 + ICH10DO Chipset
System Memory	Four 240-pin DIMMs sockets support up to 8GB Dual Channel DDR2 800/ 667 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, 2 PCI-E x 1, 2 PCI 2.3 32-bit 33/66MHz (TI Bridge), 2 PCI 2.3 33MHz (South Bridge)
TPM	Intel® Integrated TPM 1.2
Power State	S1, S3, S4, S5
Wake up on LAN or Ring	LAN (PXE)
SmartFan Control	Yes

I/O

MIO	1 IDE, 6 SATA II, 3 COM RS-232 (5V/12V), 1 COM RS-232, 1LPT, 1 PS/2 Keyboard, 1 PS/2 Mouse
USB	12 USB 2.0
GPIO	PCA 9555 supports 16-bit General Purpose I/O for 8-bit DI and 8-bit DO

Display

Chipset	Intel® Q45 integrated Graphics Media Accelerator X4500
Display Memory	Intel DVM 4.0 supports up to 384MB video memory
Max. 3D Resolution	2048 x 1536 (@75Hz)
VGA	On board

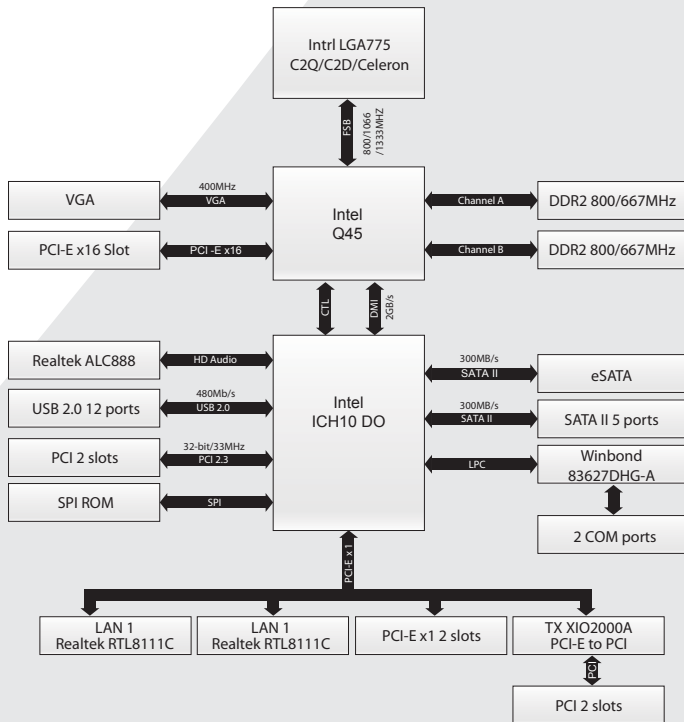
Audio

Audio Codec	Realtek ALC888, 5.1 + 2 CH HD Audio
Audio Interface	Line-in, Line-out, Mic-in

Ethernet

LAN 1	Realtek RTL8111C Gigabit LAN
LAN 2	Realtek RTL8111C Gigabit LAN

Block Diagram



Back Panel I/O Port

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

Internal I/O Connector

- 5 SATA Connectors
- 4 USB Connectors support 8 USB Ports (with 5V dual)
- 4 COM RS-232 Headers
- 1 CPU Fan Connector
- 1 Chassis Fan Connector
- 1 Power Fan Connector
- 1 Front Panel Header
- 1 Chassis Intrusion Header
- 1 S/PDIF Out Header
- 1 16-bit DIO Header

Ordering Information

AX45Q

90A-Q45001-10000B2
AX45Q R10 LGA775 ATX STD PCK

Product Offering

until 2016

Packing List

COM Cable	x 1
SATA Data Cable	x 3
SATA Power Cable	x 3
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
14GS0000072V04	COM Cable w/ Bracket

Mechanical & Environmental

Power Requirement	+12V	+5V	+3.3V	5VSB
	4.3A	3.16A	5.14A	1.03A

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) 12" x 9.6" (304.8 mm x 243.84 mm)

Weight 1.32 lbs (0.6 Kg)