



P5Q-EM DO All-in-one Solution for Digital Office

- Intel LGA775 Platform
- Intel® Q45 chipset
- Intel® vPro Technology support
- 2 x IEEE1394a
- 12 x USB 2.0
- Intel Integrated TPM



All-in-one Solution for Digital Office

CPU and Chipset features

■ LGA775 Intel® Core™2 Processor Ready

This motherboard supports the latest Intel® Core™2 processors in LGA775 package. It also can support Intel® next generation 45nm Multi-Core CPU. With new Intel® Core™ microarchitecture technology and 1333 / 1066 / 800 MHz FSB, Intel® Core™2 processor is one of the most powerful and energy efficient CPU in the world.



■ Intel® Q45 Chipset

* Better cost management and safer computing environment

The Intel® Q45 Express Chipset is the latest chipset designed to support the next generation 45nm CPU; and up to 16GB of dual-channel DDR2 800/667 MHz memory architecture. It also supports 1333/1066/800 FSB (Front Side Bus), PCI Express 1.0/2.0 x16 graphics and multi-core CPUs."



■ Intel® vPro™ Technology

The Intel® vPro™ Technology allows IT organizations to remotely manage corporate PCs, even when they are powered off or with non-functional operating systems. It features the Intel® Active Management Technology and offers IT organizations a lighter weight form of virtualization to audit all Intel® AMT-based platforms in a network environment. PCs with Intel® vPro™ Technology allow IT departments to remotely retrieve assets and hardware/software inventories, contain security threats, resolve system problems, and increase the uptime of desktops with lower maintenance costs.



ASUS EZ DIY

■ Q-Connector

Make connection quick and accurate!

The ASUS Q-Connector allows you to connect or disconnect chassis front panel cables in one easy step with one complete module. This unique adapter eliminates the trouble of plugging in one cable at a time, making connection quick and accurate.



Q-Connector

■ CrashFree BIOS 3

Simply restore corrupted BIOS data from USB flash disk

The ASUS CrashFree BIOS 3 allows users to restore corrupted BIOS data from a USB flash disk containing the BIOS file. This utility saves users the cost and hassle of buying a replacement BIOS chip.



CrashFree BIOS 3

■ EZ Flash 2

Simply update BIOS from a USB flash disk before entering the OS

EZ Flash 2 is a user-friendly BIOS update utility. Simply launch this tool and update BIOS from a USB flash disk before entering the OS. You can update your BIOS only in a few clicks without preparing an additional floppy diskette or using an OS-based flash utility.



EZ Flash 2

ASUS Crystal Sound

■ Noise Filter

Eliminate background noise while recording

This feature detects repetitive and stationary noises like computer fans, air conditioners, and other background noises then eliminates it in the incoming audio stream while recording.



Noise Filter

ASUS Unique Features

■ ASUS Advanced Q-Fan

* **Smoother and quieter fan control**

* **Stabilize system temperature with advanced quiet fan control**

The ASUS Advanced Q-Fan technology is powered by Intel Quiet System Technology. It makes the change of fan speed more smoothly. It's better in fan use, and efficiently reduces the noise caused by fans' abruptly speeding up. Moreover, Advanced Q-Fan has a better control over a constant temperature system environment.



Advanced Q-Fan

■ AI Gear 2

AI Gear 2 allows you to choose from profiles to adjust CPU frequency and vCore voltage, minimizing system noise and saving CPU power consumption at most. You can real-time change the mode under operation system to suit your needs.



AI Gear 2

Interface Features

■ IEEE 1394a interface

IEEE 1394a interface provides high speed digital interface for audio/video appliances such as digital television, digital video camcorders, storage peripherals & other PC portable devices.



IEEE 1394a

■ TPM

Intel SB Intergrated TPM (Trusted Platform Module), which can securely store keys(for encryption/ decryption), digital certificates, passwords, and data.

****The 3rd party software is required for most of the functions****

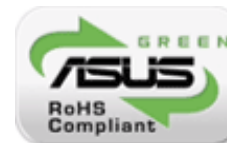


TPM Support

RoHS

■ GreenASUS

The motherboard and its packaging comply with the European Union's Restriction on the use of Hazardous Substances (RoHS). This is in line with the ASUS vision of creating environment-friendly and recyclable products and packaging to safeguard consumers' health while minimizing the impact on the environment.





Back Panel I/O Ports

Specifications

CPU	Intel® Socket 775 Core™2 Quad/Core™2 Extreme/Core™2 Duo/Pentium® Extreme/Pentium® D/Pentium® 4 Compatible with Intel® 05B/05A/06 processors Support Intel next generation 45nm Multi-Core CPU
Chipset	Intel® Q45 / ICH10DO support Intel Active Management Technology
Front Side Bus	1333/1066/800 MHz
Memory	4 x DIMM, Max. 16 GB, DDR2 800/667 Non-ECC, Un-buffered Memory Dual Channel memory architecture Please check the latest Memory QVL at www.asus.com
Expansion Slots	1 x PCIe x16 2 x PCIe x1 1 x PCI
VGA	Integrated Intel 4500 Max. UMA Memory Size: 1894 MB* *Only support when installed 1G memory D-SUB Max. resolution : 2048 X 1536@75Hz DVI Max. resolution : 1920 X 1080@60Hz *HDMI Max. resolution : 1920 X 1080@60Hz *HDMI ADD2 card is purchased separately!
Storage	Southbridge 6 xSATA 3 Gb/s ports Support RAID 0,1,0+1,5 Marvell 88SE6102 PATA controller 1 xUltraDMA 133/100/66 for up to 2 PATA devices
LAN	Intel 882567LM PCIe Gigabit LAN controller
Audio	Realtek® ALC1200 8 -Channel High-Definition Audio CODEC - Support Jack-detection, Enumeration, Multi-streaming
IEEE 1394	LSI®L-FW3227 1394 controller supports 2 x 1394a ports (one at midboard; one at back panel)
USB	12 USB 2.0 ports (8 ports at mid-board, 4ports at back panel)
ASUS Unique Features	ASUS Quiet Thermal Solution - ASUS AI Gear 2 - ASUS Q-Fan ASUS Crystal Sound - ASUS Noise Filter ASUS EZ DIY - ASUS Q-Connector - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2
Overclocking Features	Precision Tweaker - vDIMM: 8 -step DRAM voltage control - vCore: Adjustable CPU voltage at 0.00625V increment SFS (Stepless Frequency Selection) - FSB tuning from 200MHz up to 800MHz at 1MHz increment - Memory tuning from 667MHz up to 1066*MHz - PCI Express frequency tuning from 100MHz up to 180MHz at 1MHz increment Overclocking Protection - ASUS C.P.R. (CPU Parameter Recall)
Special Features	ASUS MyLogo 2

Back Panel I/O Ports	1 x PS/2 Keyboard 1 x PS/2 Mouse 1 x VGA port 1 x DVI 1 x IEEE1394a 1 x RJ45 port 4 x USB 2.0/1.1 1 x ME Switch 8-channel Audio I/O
Internal I/O Connectors	4 x USB connectors support additional 8 USB ports 1 x Floppy disk drive connector 1 x IDE connector 6 x SATA connectors 1 x CPU Fan connector 1 x Chassis Fan connector 1 x Power Fan connector 1 x IEEE1394a connector Front panel audio connector 1 x S/PDIF Out Header Chassis Intrusion connector CD audio in 24-pin ATX Power connector 1 x 4-pin ATX 12V Power connector System Panel
BIOS	2 x 16 Mb Flash ROM, AMI BIOS, PnP, DMI2.0, WfM2.0, SMBIOS 2.3, ACPI 2.0a
Manageability	WfM 2.0, DMI 2.0, WOL by PME, WOR by PME, PXE Intel® AMT 5.0 technology support
Support Disc	Drivers ASUS PC Probe II ASUS Update Intel System Defense Utility Anti-virus software (OEM version)
Form Factor	uATX Form Factor 9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)