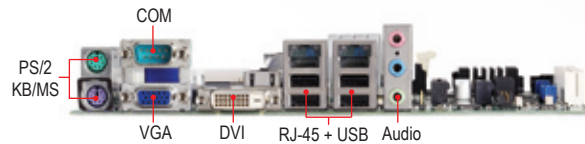


### Features

- FlexATX Motherboard
- Intel® Q45 + ICH10 Chipset supports up to 1333 MHz FSB LGA775 Intel® Core™2 Quad/Duo processor
- Dual-Channel DDR3 800/1066 MHz, up to 4 GB
- Integrated Graphic supports VGA, DVI, LVDS
- One PCI Express® x4 and one PCI slot



### Specifications

#### Processor System

CPU	Intel® Core™2 Quad Q9400, 2.66GHz, 1333MHz FSB, 6MB L2 Cache, 45nm, 95W TDP, LGA775 Intel® Core™2 Duo E8400, 3.0GHz, 1333MHz FSB, 6MB L2 Cache, 45nm, 65W TDP, LGA775 Intel® Core™2 Duo E7400, 2.8GHz, 1066MHz FSB, 3MB L2 Cache, 45nm, 65W TDP, LGA775 Intel® Core™2 Duo E6400, 2.13GHz, 1066MHz FSB, 2MB L2 Cache, 65nm, 65W TDP, LGA775 Intel® Pentium® Dual Core E5300, 2.6GHz, 800MHz FSB, 2MB L2 Cache, 45nm, 65W TDP, LGA775 Intel® Core™2 Duo E4300, 1.8GHz, 800MHz FSB, 2MB L2 Cache, 65nm, 65W TDP, LGA775 Intel® Pentium® Dual Core E2160, 1.8GHz, 800MHz FSB, 1MB L2 Cache, 65nm, 65W TDP, LGA775 Intel® Celeron® 440, 2.0GHz, 800MHz FSB, 512KB L2 Cache, 65nm, 35W TDP, LGA775
Chipset	Intel® Q45 + ICH10
Memory	Dual-Channel DDR3 800/1066 MHz, up to 4 GB
TPM	Infineon® SLB9635 TT1.2
BIOS	AMI® BIOS 8Mb flash memory
Watchdog Timer	1-255 sec or 1-255 min software programmable and can generate system reset
Hardware Monitor	CPU/System temperature, fan speed and onboard DC voltages
Operating Systems	Windows® XP/Vista, Fedora™ 10

#### I/O Interfaces

Serial ATA	4x Serial ATA II ports with 3.0 Gbps data transfer rate
USB	8x USB 2.0 ports (4x faceplate, 4x onboard pin header)
KB/MS	2x Mini-DIN for PS/2 keyboard/mouse
Serial Port	2x RS-232
Expansion Slot	1x PCIe® x4, 1x PCI™

#### Audio

Audio Codec	Realtek ALC262 HD codec
Interface	Line-in, Line-out, Mic-in Onboard pin header for Line-out

#### Display

Graphics	Intel® Graphics Media Accelerator 4500
CRT	Up to 2048 x 1536 @ 75 Hz (QXGA)
LVDS	Single-channel 24-bit LVDS interface, resolution up to UXGA (1600 x 1200)
DVI	DVI-D interface, resolution up to UXGA (1600 x 1200)

#### Ethernet

Controller	Dual Intel® 82574L PCIe® network controllers
Interface	10/100/1000Base-T dual-Gigabit Ethernet
Wake On LAN	PCIe® x1 Bus Yes

#### Mechanical and Environmental

Form Factor	FlexATX
Dimensions	229 mm x 191 mm (L x W)
Operating Temp.	0°C to 60°C
Storage Temp.	-20°C to 80°C
Certifications	CE, FCC Class A
Relative Humidity	10% to 90%, non-condensed

### Ordering Information

Model Number	Description/Configuration
<b>M-321</b>	FlexATX Intel® Core™2 Quad/Duo LGA775 Motherboard

Note 1: CPU, Memory module and Cooler kit are not included.

### Optional Accessories

Model Number	Description/Configuration
1U CPU Cooler + backplate	LGA775 1U Thermal Module + backplate
3U CPU Cooler	LGA775 3U Thermal Module
Backplate	LGA775 3U CPU Cooler backplate
Copper-core Cooler	LGA775 copper-core cooler with backplate

### Packing List

M-321	1x USB cable with bracket
M-321 I/O Shield	1x dual-plug SATA power cable
1x COM port cable	Driver DVD
2x SATA data cable	User's manual