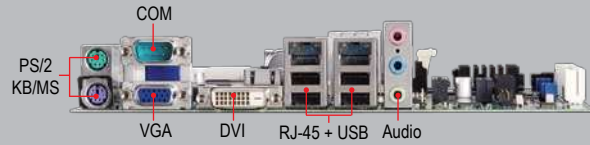


Features

- 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, 2.66 GHz, 1333MHz FSB, 6MB L2 Cache, 45nm, 95W TDP, LGA775 Intel® Core™2 Duo E8400, 3.0 GHz, 1333MHz FSB, 6MB L2 Cache, 45nm, 65W TDP, LGA775 Intel® Core™2 Duo E7400, 2.8 GHz, 1066MHz FSB, 3MB L2 Cache, 45nm, 65W TDP, LGA775 Intel® Pentium® E6500, 2.93 GHz, 1066MHz FSB, 2MB L2 Cache, 45nm, 65W TDP, LGA775 (2C) Intel® Core™2 Duo E6400, 2.13 GHz, 1066MHz FSB, 2MB L2 Cache, 65nm, 65W TDP, LGA775 Intel® Pentium® E5300, 2.6 GHz, 800MHz FSB, 2MB L2 Cache, 45nm, 65W TDP, LGA775 (2C) Intel® Core™2 Duo E4300, 1.8 GHz, 800MHz FSB, 2MB L2 Cache, 65nm, 65W TDP, LGA775 Intel® Celeron® E3400, 2.6 GHz, 800MHz FSB, 1MB L2 Cache, 45nm, 65W TDP, LGA775 (2C) Intel® Celeron® E1500, 2.2 GHz, 800MHz FSB, 512KB L2 Cache, 65nm, 65W TDP, LGA775 (2C) Intel® Pentium® E2160, 1.8 GHz, 800MHz FSB, 1MB L2 Cache, 65nm, 65W TDP, LGA775 (2C) Intel® Celeron® 440, 2.0 GHz, 800MHz FSB, 512KB L2 Cache, 65nm, 35W TDP, LGA775 (1C) Intel® Q45 + ICH10
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./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 SATA 3 Gb/s ports
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 Slots	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 10/100/1000Base-T dual-Gigabit Ethernet
Interface	PCIe® x1 bus
Wake On LAN	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-condensing

Ordering Information

Model Number	Description/Configuration
M-321	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
LGA775 3U CPU Cooler	LGA775 3U Thermal Module
Backplate	LGA775 3U CPU Cooler 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 cables	User's manual