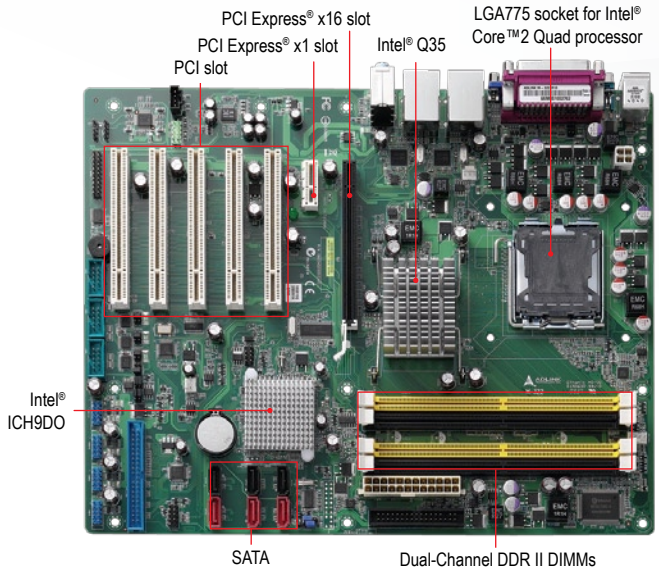
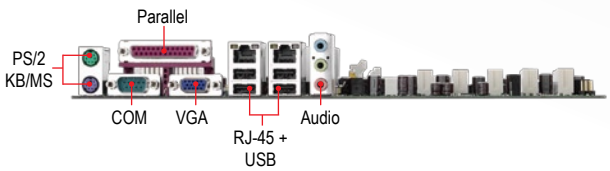
M-322

ATX Intel® Core™2 Quad LGA775 Industrial Motherboard



Features

- Intel® Core™2 Quad/Duo Processor in LGA775 socket
- Intel® Q35 + ICH9DO Chipset supports up to 1333MHz FSB
- Dual-Channel DDR2 667/800MHz
- Integrated Graphics or PCI Express x16
- 1x PCIe x1 slot and 5x PCI slots



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® Pentium® E2160, 1.8 GHz, 800MHz FSB, 1MB L2 Cache, 65nm, 65W TDP, LGA775 (2C)
	Intel® Celeron® E1500, 2.2 GHz, 800MHz FSB, 512K L2 Cache, 65nm, 65W TDP, LGA775 (2C)
	Intel® Celeron® 440, 2.0 GHz, 800MHz FSB, 512KB L2 Cache, 65nm, 35W TDP, LGA775 (1C)
Chipset	Intel® Q35 + ICH9DO
Memory	4x 240-pin DIMM sockets
	Dual-Channel DDR2 667/800MHz, up to 8 GB
TPM	Onboard header for TPM (optional)
BIOS	AMIBIOS® 32 Mb SPI BIOS
Watchdog Timer	1-255 sec./min. software programmable, can generate system reset
Hardware Monitor	CPU/System temperature, fan speed and onboard DC voltages
Operation Systems	Windows® XP, Vista, 7 32/64-bit

I/O Interfaces

IDE (PATA)	1x UltraATA-66/100/133
Serial ATA	6x SATA 3 Gb/s ports
	Intel® Matrix Storage Technology, supports RAID 0/1/5/10
Expansion Slots	1x PCIe® x16, 1x PCIe® x1, 5x PCI™ slots
USB	12x USB 2.0 ports (4x faceplate, 8x onboard pin headers)
KB/MS	2x Mini-DIN for PS/2 keyboard/mouse
Floppy	1x Floppy
Parallel Port	1x LPT
Serial Port	3x RS-232
	1x RS-232/422/485

Audio

Audio Codec	Realtek® ALC888
Interface	Line-in, Line-out, Mic-in

Display

Graphics	Intel® Graphics Media Accelerator 3100
VRAM	Shared with system memory up to 256MB
VGA	Up to 2048 x 1536 @ 75 Hz (QXGA)
External Graphics	PCI Express x16

Ethernet

Controller	Realtek® RTL8111C
Interface	PCIe x1 bus
Wake On LAN	Yes

Mechanical and Environmental

Form Factor	ATX
Dimensions	305 mm x 244 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-322	ATX Intel® Core™2 Quad LGA775 Industrial Motherboard

Optional Accessories

Model Number	Description/Configuration
LGA775 1U CPU Cooler	LGA775 1U Thermal Module
LGA775 3U CPU Cooler	LGA775 3U Thermal Module

Packing List

M-322	2x SATA power cables
M-322 I/O shield	Driver CD
1x COM cable with bracket	1x 2-port COM cable with bracket
User's manual	2x SATA data cables

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