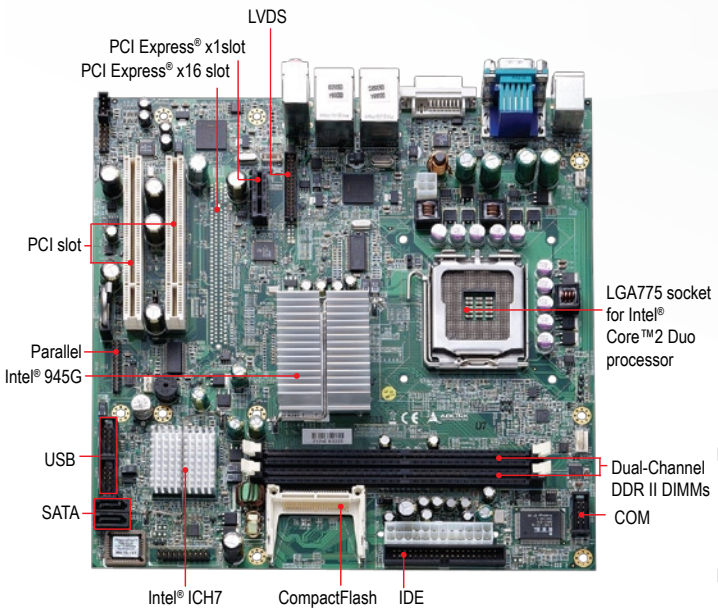
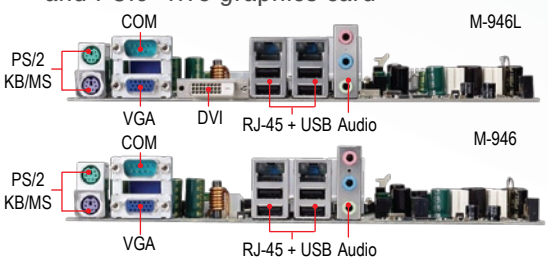
M-946

MicroATX LGA775 Intel® Core™2 Duo Industrial Motherboard with DDR2, Dual-GbE, PCIe® x16, DVI/LVDS, SATA II and CF



Features

- MicroATX industrial motherboard
- LGA775 Intel® Core™2 Duo, Pentium® D, Pentium® 4, Celeron® D processor at 1066/800/533 MHz FSB
- Intel® 945G + ICH7 chipset with Dual-Channel DDR2 667/533 MHz
- Two Gigabit Ethernet ports via PCIe® x1
- Rich display interfaces: VGA, DVI, LVDS, and PCIe® x16 graphics card



Specifications

Processor & System

CPU	Intel® Core™2 Duo E6400, 2.13GHz, 1066MHz FSB, 2MB L2 Cache, 65nm, 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
	Intel® Pentium® 4 651, 3.4GHz, 800MHz FSB, 2MB L2 Cache, 65nm, 95W TDP, LGA775
	Intel® Pentium® 4 551, 3.4GHz, 800MHz FSB, 1MB L2 Cache, 90nm, 84W TDP, LGA775
	Intel® Pentium® 4 531, 3.0GHz, 800MHz FSB, 1MB L2 Cache, 90nm, 84W TDP, LGA775
	Intel® Celeron® D 352, 3.2GHz, 533MHz FSB, 512KB L2 Cache, 65nm, 95W TDP, LGA775
	Intel® Celeron® D 341, 2.93GHz, 533MHz FSB, 256KB L2 Cache, 90nm, 84W TDP, LGA775
Chipset	Intel® 945G + ICH7
Memory	Dual-Channel DDR2 667/533 MHz, up to 2 GB
BIOS	Award 4 Mb 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® 2000/XP/Server 2003, Fedora™ Core 5

I/O Interfaces

IDE (PATA)	1x UltraATA-66/100
CompactFlash®	1x CompactFlash® type-II socket
Serial ATA	2x Serial ATA II ports with 3.0 Gbps data transfer rate
Expansion Slot	1x PCIe® x1 slot, 1x PCIe® x16 slot, and 2x PCI™ slots
USB	8x USB 2.0 ports (4x rear panel, 4x onboard pin header)
KB/MS	2x Mini-DIN for PS/2 keyboard/mouse
Parallel Port	1x LPT
Serial Port	2x RS-232 ports

Audio

Audio Codec	Realtek ALC655 AC'97 codec
Interface	AC'97 audio with Line-In, Line-Out, and Mic-In

Display

Graphics	Intel® 945G integrated VGA (GMA 950)
VRAM	224MB
CRT	External Dsub-15 connector up to 2048 x 1536 @ 75Hz
LVDS	Dual-channel 24-bit LVDS interface, resolution up to UXGA (1600 x 1200) (optional)
DVI	DVI-D interface, resolution up to UXGA (1600 x 1200) (optional)

Ethernet

Controller	Onboard two Intel® 82573E GbE controllers support 10/100/1000Base-T dual-Gigabit Ethernet
Interface	PCIe® x1 bus
Wake On LAN	Yes

Mechanical and Environmental

Form Factor	MicroATX
Dimensions	244 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-condensed

Ordering Information

Model Number	Description/Configuration
M-946	MicroATX LGA775 Intel® Core™2 Duo Industrial Motherboard with DDR2, Dual-GbE, x16 PCIe® and SATA II and CompactFlash®
M-946L	MicroATX LGA775 Intel® Core™2 Duo Industrial Motherboard with DDR2, Dual-GbE, DVI/LVDS, SATA II and CompactFlash®

Optional Accessories

Model Number	Description/Configuration
1U CPU Cooler + backplate	LGA775 1U Thermal Module + backplate
3U CPU Cooler	LGA775 3U Thermal Module
Backplate	Backplate for 3U CPU cooler

Packing List

- M-946
- M-946 I/O shield
- 1x COM+Parallel port cables with bracket
- 2x SATA data cables
- 1x dual-plug SATA power cable
- Driver CD
- User's manual

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