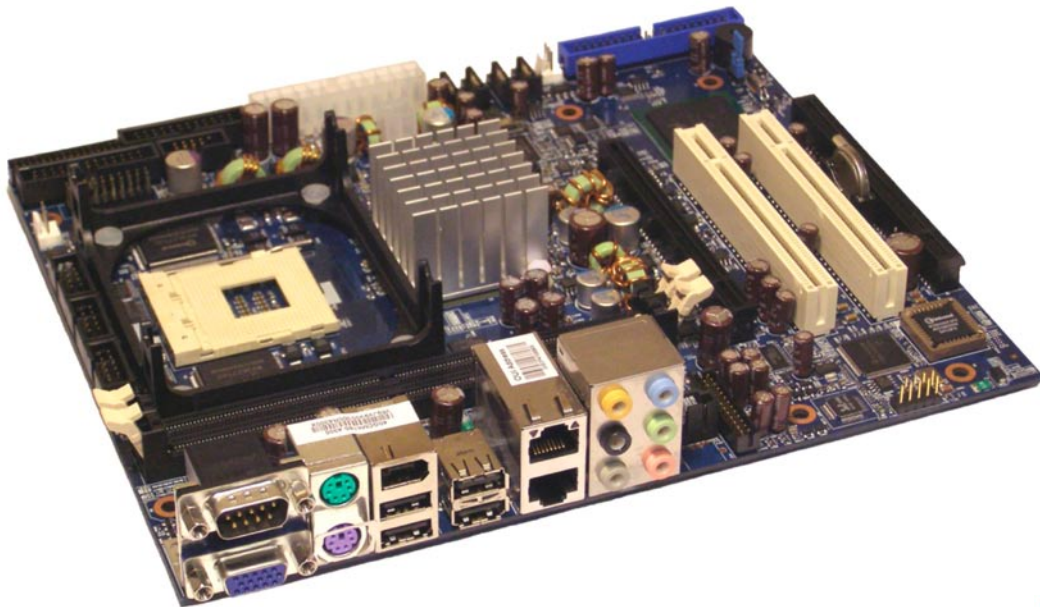




# 986LCD-M/FLEX

Intel® Core™ 2 Duo, Intel® Core™ Duo & Intel® Core™ Solo

Embedded FLEX-ATX with 2x GbE LAN,  
LVDS, PCI-Express/SDVO, IEEE 1394



- Intel® Core™ 2 Duo, Intel® Core™ Duo and Intel® Core™ Solo Processors
- Long-term availability
- Intel® 945GM + Intel® ICH7R Embedded Chipset
- Intel® GMA950 Controller with PCI-Express x16/SDVO interface
- Flat Panel Display Support, incl. dual independent display
- 2x 10/100/1000 Mbps Ethernet
- 1x PCI-Express x16, 1x PCI-Express x4 and 2 PCI slots
- HD Audio, Serial ATA w. Raid 0/1/5/10
- 2x IEEE 1394, 8x USB 2.0, 4x Serial port

## ► Technical Data

|                           |   |
|---------------------------|---|
| <b>Processor</b>          | Intel® Pentium® Core™ 2 Duo, Core™ Duo and Intel® Core™ Solo Processors (mPGA478); Prepared for mBGA479 up to 2.16GHz                           |
| <b>Chipset</b>            | Intel® 945GM and Intel® ICH7R Embedded Chipset<br>Front Side Bus 533 / 667 MHz  |
| <b>BIOS</b>               | AMI®  |
| <b>Power Management</b>   | ACPI 2.0 and APM 1.2  |
| <b>Bus</b>                | 2x PCI<br>1x PCI-Express x16 / SDVO for external graphics card or ADD2 cards<br>1x PCI-Express x4 in 16x slot                                   |
| <b>DRAM</b>               | 2x DDR2 socket (240pins DIMM) up to 3 GByte   |
| <b>Graphics</b>           | Intel® GMA950 Controller with 2D/3D Graphics Engine<br>Dual Pipe for dual independent displays (incl. 2x LCD)<br>HW assisted DVD/MPEG2 Decoding |
| <b>Resolution</b>         | Up to: CRT 2048x1536, LVDS 1600x1200, DVI 1600x1200 including 16x9 support  |
| <b>Graphic Interfaces</b> | On board CRT, on board Dual Channel LVDS, PCI-Express x 16/SDVO, S-Video(TV)<br>2nd LVDS and DVI by ADD2-Cards (option)                         |
| <b>HDD</b>                | 4x Serial ATA150/300 and 1x ATA100 (2.54 mm connector)  |
| <b>IEEE 1394</b>          | 2x IEEE 1394 (1x Internal and 1x External)  |
| <b>Parallel Port</b>      | Bi-directional Centronics w. SPP, ECP or EPP mode, shared floppy drive option (internal pin connector)  |

|                                 |  |
|---------------------------------|--|
| <b>Serial Port</b>              | 4x RS232C serial ports with FIFO   |
| <b>USB</b>                      | 8x USB 2.0 (4x internal and 4x external)   |
| <b>Ethernet</b>                 | 2x 10/100/1000 Mbps Ethernet Controller, Realtek RTL8111B                                |
| <b>Keyboard/Mouse</b>           | Standard PS/2 mouse and keyboard (internal connection available)                         |
| <b>Sound</b>                    | HD Audio compliant   |
| <b>GPIO</b>                     | 8 channel GPIO   |
| <b>Hardware Monitoring</b>      | Temperature, fan and voltages  |
| <b>Monitoring API/DMI</b>       | Software interface to monitor hardware values including HDD S.M.A.R.T.                   |
| <b>Battery</b>                  | On board Lithium battery and external battery input                                      |
| <b>Operating Temp.</b>          | 0-60°C   |
| <b>EMC/ESD compliance</b>       | Compliance with EN55022 and EN61000-4-2 (ESD)  |
| <b>Safety compliance</b>        | UL609501-1:2003, First edition<br>CSA C22.2 No. 60950-1-03, First edition, April 1. 2003 |
| <b>Environmental compliance</b> | RoHS and Lead-free production  |
| <b>Dimensions</b>               | FLEX-ATX, 7.5" x 9" (190.5mm X 228.6mm)  |
| <b>Power Supply</b>             | ATX & BTX  |
| <b>Trusted platform module</b>  | TPM header for TPM support   |

## ► Ordering Information

| Article       | Part.-No.   | Description  |
|---------------|-------------|--|
| 986LCD-M/FLEX | 810210-4500 | CoreDuo/CoreSolo Socket mPGA478, Intel® 945 GM, w. 2x PCI, 2x Gb LAN, 2x IEEE 1394 |

## ► ADD2-Cards for 2nd display



ADD2-DVI-Dual  
Part #820952



ADD2-LVDS-Dual  
Part #820950

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