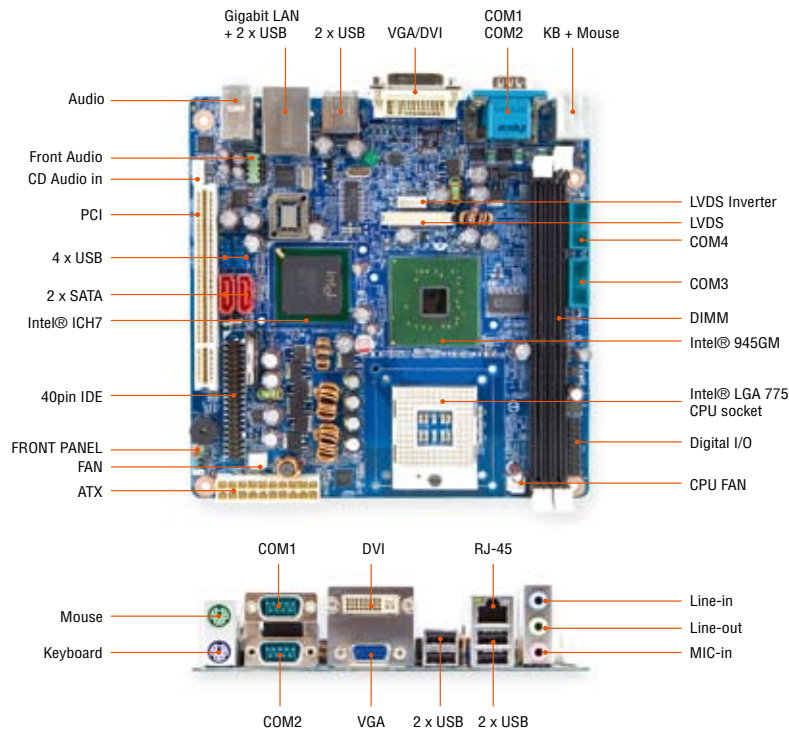


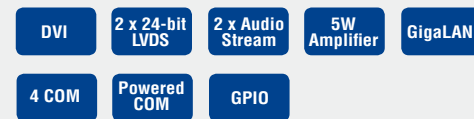
# i945GM3-DCQI

Intel® 945GM  $\mu$ FC-PGA 478 Core™ 2 Duo  
Mini ITX Motherboard



## Features

- Supports 65nm Intel® Core™ 2 Duo / Core™ Duo / Core™ 2 Solo / Core™ Solo Mobile CPU
- Intel® 82945GM Express Chipset
- Two DIMMs up to 4GB 2-CH DDR2 533/667 SDRAM
- DVI, 2-CH 18/24-bit LVDS, Dual View
- Intel® Graphics Media Accelerator 950
- Realtek ALC888 Supports 5.1+2 CH Dual Audio Streams
- Realtek RTL8111B PCI-E Gigabit LAN
- 1 PCI
- 4 powered COM, 8 USB, 2 SATA, 16-bit GPIO
- TPA3005D2 5W Stereo Amplifier



## Specifications

### System

<b>CPU</b>	Supports Intel® $\mu$ FC-PGA 478 Core Duo / Core Solo / Core 2 Duo with 65nm process technology
<b>FSB</b>	533/667 MHz
<b>BIOS</b>	Award 8 Mb Flash ROM BIOS
<b>System Chipset</b>	Intel® 82945GM GMCH/82801GBM ICH7-M DH
<b>I/O Chip</b>	Winbond W83627DHG-A
<b>System Memory</b>	Two 240-pin DIMM sockets support up to 4 GB Dual Channel DDR2 533/667 SDRAM
<b>SSD</b>	One CompactFlash Type I/II socket
<b>Watchdog Timer</b>	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
<b>H/W Status Monitor</b>	Monitoring CPU temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
<b>Expansion</b>	One PCI slot (PCI Rev. 2.2 compliant) supports 3 PCI master
<b>S3</b>	S3 Support
<b>SmartFan Control</b>	Speed Cruise Mode

### I/O

<b>MIO</b>	1 x EIDE, 2 x SATA, 4 x RS-232, 1 x K/B, 1 x Mouse (COM1~4 with Power output)
<b>USB</b>	8 x USB 2.0
<b>DIO</b>	16-bit General Purpose I/O for DI and DO

### Display

<b>Chipset</b>	Intel® 82945GM GMCH integrated Graphics Media Accelerator 950
<b>Display Memory</b>	Intel® DVMT 3.0 supports 224 MB video memory
<b>Resolution</b>	2048 x 1536 @ 32 bpp (85 Hz)
<b>Dual Display</b>	CRT + LVDS, or CRT + DVI-D
<b>VGA/LCD Interface</b>	D-SUB +DVI-D
<b>LVDS</b>	Support Dual-channel 18/24-bit LVDS
<b>DVI</b>	Chrontel CH7307C DVI transmitter up to 165M pixels/second

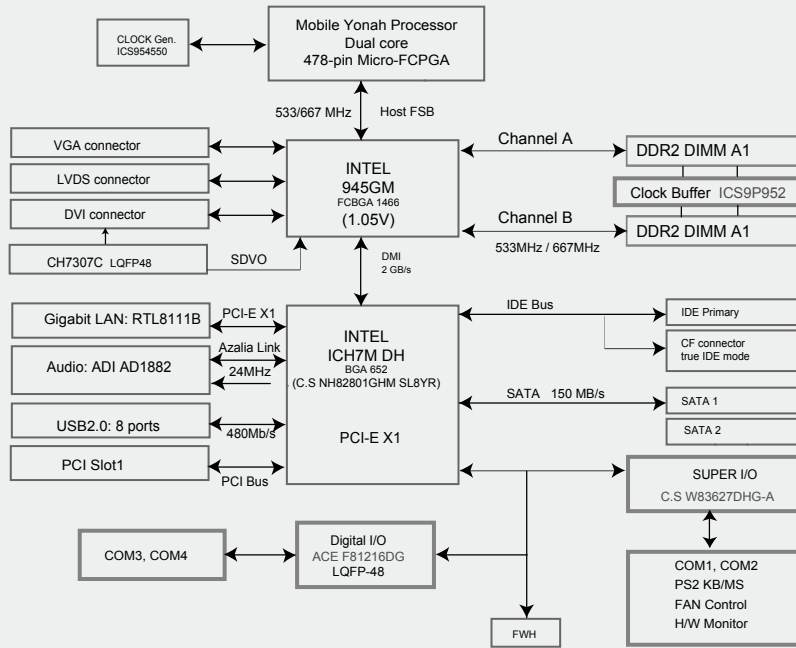
### Audio

<b>Chipset</b>	Intel® 82801GBM ICH7-M DH
<b>Audio Codec</b>	Realtek ALC888 high-definition Audio Codec supports 5.1+2-CH two independent Audio streams
<b>Audio Interface</b>	Mic in, Line in, Line out
<b>Audio Amplifier</b>	TPA3005D2 5W (per front channel) stereo amplifier

### Ethernet

<b>LAN 1</b>	Realtek RTL8110B PCI-E Gigabit Ethernet Controller
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## Block Diagram



## Ordering information

### i945GM3-DCQI

Intel® Core™ 2 Duo / Core™ Duo / Core™ Solo Mini ITX Motherboard with VGA/DVI, LVDS, 5.1 + 2 CH Audio, Giga LAN, 4 powered COM, 8 USB, 16-bit GPIO, 1 PCI, CF & 5W audio amplifier

### Packing list

Part Number	Description	Quantity
80I-945GM3-0A000A1	i945GM3-DCQI Mini-ITX Motherboard	1
14G000020095	COM1 cable 9P, WO/bracket 26cm	2
14GS0000021Y09	Cable 40P 300mm IDE YCW-11996	1
14G000100910	SATA Cable Kit (SATA/POWER)	2

### Back Panel I/O Port

- 1 x PS/2 Keyboard
- 1 x PS/2 Mouse
- 2 x RS-232 (with 5V/12V output)
- 1 x VGA port
- 1 x DVI port
- 4 x USB 2.0/1.1
- 1 x RJ45 Port
- 5.1 CH Audio I/O (3 jacks)

### Internal I/O Connector

- 2 x USB connectors support 4 USB ports
- 1 x 20-pin ATX Power connector
- 1 x IDE 40-pin connector for two devices
- 2 x COM port header (with 5V/12V output)
- 2 x SATA connectors
- 1 x Front panel audio connector
- 1 x Audio amplifier connector
- 1 x System panel connector
- 1 x LVDS connector
- 1 x Inverter Power connector
- 1 x CPU Fan connector
- 1 x System Fan connector
- 1 x Digital I/O header
- 1 x SPDIF Out connector

### Mechanical & Environmental

<b>Power Type</b>	ATX
<b>Operating Temperature</b>	0~60°C (32~140°F)
<b>Operating Humidity</b>	0%~90% relative humidity, non-condensing
<b>Size (L x W)</b>	6.69" x 6.69" (170 mm x 170 mm)
<b>Weight</b>	0.88 lbs (0.4 Kg)

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