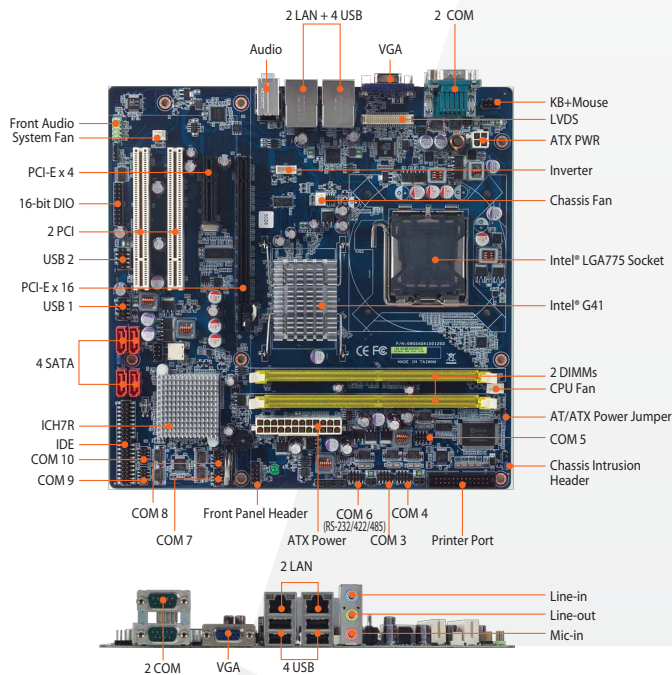


IG41-M

Intel® G41 with Core™2 Quad/ Core™2 Duo Micro-ATX Motherboard



Features

- Supports LGA 775 CPU up to Core™ 2 Quad FSB 1333MHz (95W TDP) CPU
- Intel® G41 + ICH7R Chipset
- Dual channel DDR2 667/800MHz up to 8GB
- Realtek ALC888, 5.1 + 2 Channel HD Audio
- Dual Realtek RTL8111D Gigabit LAN
- 1 PCI-E x 16, 1 PCI-E x 4, 2 PCI 2.3
- 1 VGA, 1 24-bit dual channel LVDS
- 10 COM
- 8 USB 2.0, 4 SATA II (support RAID 0, 1, 5, 10), 1 LPT
- 16-bit GPIO (DIO)
- TPM 1.2 (optional)

Specifications

System

CPU	Intel® LGA775 socket supports Core™2 Quad/ Core™2 Duo with 45nm process technology
FSB	1333/1066/800 MHz
BIOS	AMI 32Mb BIOS
System Chipset	Intel® G41 + ICH7R Chipset
I/O Chip	Winbond W83627DHG-A
System Memory	Two 240-pin DIMM sockets support up to 8GB Dual Channel DDR2 800/667 SDRAM
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 PCI-E x 16, 1 PCI-E x 4, 2 PCI slots (PCI 2.3 compliant)
Power State	S1, S3, S4, S5
TPM	Onboard TPM 1.2 by Infineon SLB9635 (optional)
Wake up on LAN or Ring	LAN (PXE)
SmartFan Control	Yes, CPU Fan (by SIO)

I/O

MIO	4 SATA II, 9 COM RS-232, 1 COM RS-232/422/485, 1 LPT, 1 PS/2 KB+MS
USB	8 USB 2.0
GPIO	PCA9555 supports 16-bit General Purpose I/O for 8-bit DI and 8-bit DO

Display

Chipset	Intel® G41 integrated Graphics Media Accelerator X4500
Display Memory	Intel® DVMT 4.0 supports up to 352MB Memory
Max. Resolution	2048 x 1536 (@75Hz)
Dual Display	LVDS + VGA
VGA	On board
LVDS	18-bit single channel LVDS/ 24-bit dual channel LVDS, up to 1600 x 1200 resolution
LVDS Backlight	Yes, 5V and 12V
DVI	Yes, support by ADD2 card
HDMI	Yes, support by ADD2 card
2nd VGA	LVDS+VGA, ADD2+VGA/LVDS

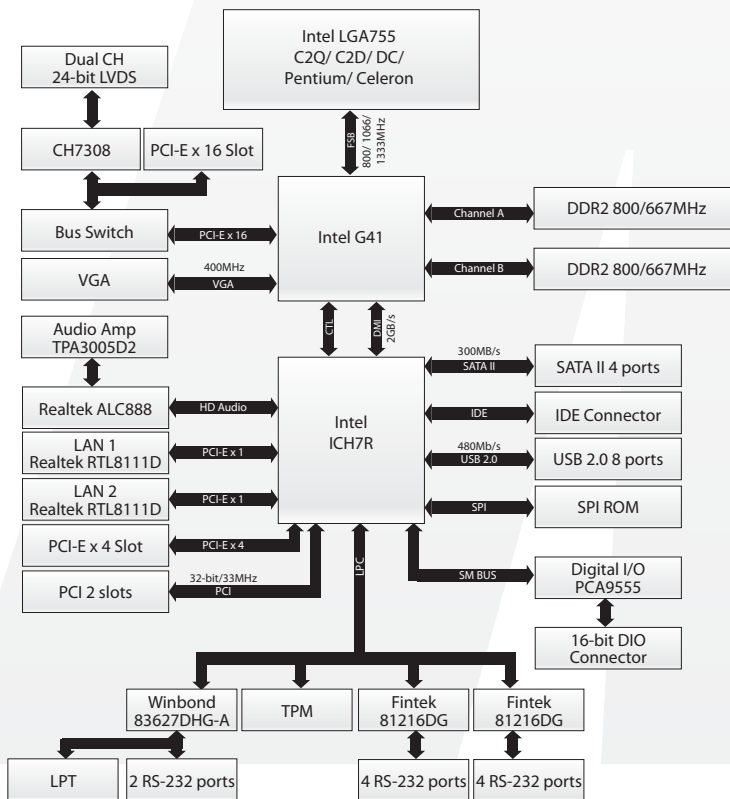
Audio

Audio Codec	Realtek ALC888, 5.1 + 2 CH HD Audio
Audio Interface	Line-in, Line-out, Mic-in

Ethernet

LAN1	Realtek RTL8111D GbE LAN
LAN2	Realtek RTL8111D GbE LAN

Block Diagram



Back Panel I/O Port

- 1 VGA (D-Sub) Connector
- 1 Dual COM Port Double Stack (w/ Power)
- 2 LAN RJ45 Ports
- 2 USB 2.0
- Audio I/O (3 jacks)

Internal I/O Connector

- 1 KB+MS Pin Header
- 1 IDE Connector
- 4 SATA/SATA II Connectors
- 2 USB Connectors support 4 USB Ports
- 8 COM Headers
- 1 LVDS Connector
- 1 LVDS Backlight Connector
- 1 CPU Fan Connector
- 1 System Fan Connector
- 1 Chassis Intrusion Header
- 1 Front Audio Connector
- 1 Front Panel Header
- 1 LPT
- 1 16-bit DIO Connector
- 1 AT/ATX Power Jumper

Mechanical & Environmental

Power Requirement	+12V 0.3A	+5V 2.1A	+3.3V 1.3A	5VSB 0.3A
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Power Type	AT / ATX
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Power Connector	1 24-pin ATX Power Connector 1 4-pin ATX 12V Power Connector
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Operating Temperature	0 to 60°C (32 to 140°F)
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Operating Humidity	0% to 90% relative humidity, non-condensing
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Size (L x W)	9.6" x 9.6" (243.84 mm x 243.84 mm)
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Weight	1.35 lbs (0.6 Kg)
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