



### Features

- Intel® LGA775 Socket Supports Intel® Core™ 2 Quad/ Core™ 2 Duo CPU
- Intel® G41/ ICH7-R Chipset
- Two 240-pin DIMM Sockets Support Up to 8GB Dual Channel DDR2 667/ 800MHz SDRAM
- Intel® Graphics Media Accelerator X4500
- Dual View, LVDS, VGA
- Realtek ALC888 Supports 5.1+2-CH HD Audio
- Dual Realtek RTL8111D Gigabit Ethernet
- 1 PCIe16, 1 PCIe4, 2 PCI
- 4 SATA II, 1 LPT, 10 COM, 8 USB, 16-bit GPIO
- RAID 0, 1, 5, 10
- TPM 1.2 (Optional)

Intel® GM41	Intel® GMA X4500	Dual View	24-bit LVDS	5.1+2-CH Audio
2 GbE	PCIe16	PCIe4	2 PCI	4 SATA II
10 COM	8 USB	16 GPIO	RAID	

### Specifications

#### System

• CPU	Intel® LGA775 Socket Supports Intel® Core™ 2 Quad/ Core™ 2 Duo with 45nm Process Technology
• FSB	800/ 1066/ 1333MHz
• BIOS	AMI 32MB Flash ROM BIOS
• System Chipset	Intel® 82G41/ 82801GB (ICH7)
• I/O Chip	Winbond W83627DHG-A
• System Memory	Two 240-pin DIMM Sockets Support Up to 8GB Dual Channel DDR2 667/ 800MHz SDRAM
• Watchdog Timer	Reset: 1sec. ~ 255min. and 1sec. or 1min./step
• H/W Status Monitor	Monitoring CPU Temperature and Fan Status with Auto Throttling Control
• TPM	Infineon TPM 1.2 SLB9635 (Optional)
• Expansion	1 PCIe16, 1 PCIe4, 2 PCI (PCI 2.3 Compliant)
• RAID	RAID 0, 1, 5 and 10
• Power State	Yes (S1/ S3/ S4/ S5)
• SmartFan Control	Yes

#### I/O

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

#### Audio

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

#### Display

• Chipset	Intel® Graphics Media Accelerator X4500 Integrated
• Display Memory	Intel® DVMT 4.0 Supports Up to 352MB Memory
• Max. Resolution	VGA Mode : 2048 x 1536 @ 75Hz
• Dual Display	VGA + LVDS
• VGA	Yes, Onboard GMA X4500
• LVDS	18-bit Single Channel LVDS/ 24-bit Dual Channel LVDS
• DVI	Through ADD2 Card
• HDMI	Through ADD2 Card
• 2nd VGA	Through ADD2 Card

#### Ethernet

• LAN 1	Realtek RTL8111D Gigabit Ethernet
• LAN 2	Realtek RTL8111D Gigabit Ethernet

#### Mechanical & Environmental

• Power Requirement	+12V @ 0.3A, +5V @ 2.1A, +3.3V @ 1.3A, 5VSB @ 0.3A
• Power Type	AT/ ATX
• Operating Temperature	0 ~ 60°C (32 ~ 140°F)
• Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
• Operating Humidity	0 ~ 90% Relative Humidity, Non-condensing
• Size (L x W)	9.6" x 9.6" (243.84mm x 243.84mm)
• Weight	1.35lbs (0.6Kg)

### Ordering Information

#### • ERX-G41-A1R

Intel® Core™ 2 Quad/ Core™ 2 Duo Micro ATX Motherboard with Intel® G41 + ICH7-R Chipset and VGA, LVDS, Audio, 2 GbE, 2 PCI, 1 PCIe16, 1 PCIe4, 4 SATA II, 10 COM, 8 USB, 16-bit GPIO