



## Features

- 1 Supports 65nm/ 45nm Intel® Core™ 2 Quad/ Core™ 2 Extreme/ Core™ 2 Duo/ Core™ Duo/ Pentium® 4/ Celeron® D CPU
- 2 Intel® Q965/ ICH8 Chipset
- 3 Four DIMMs Up to 8GB 2-CH DDR2 800/ 667/ 533 SDRAM
- 4 Intel® Graphics Media Accelerator 3000
- 5 Realtek ALC888 Supports 7.1+2-CH Audio Streams, 6W AMP
- 6 Realtek 8111B PCIe Gigabit Ethernet
- 7 1 PCIe16, 3 PCI 2.3
- 8 4 COM, 6 USB, 2 SATA
- 9 TPM 9635TT 1.2
- 10 PCIe16 Supports ADD2 DVI-D/ VGA/ HDMI/ LVDS Cards



1  
ATX

2  
Micro  
ATX

3  
Mini  
ITX

4  
Nano  
ITX

5  
ACP

6  
System

7  
Accessory

## Specifications

### System

• CPU	Intel® µFC-LGA 775 Socket Supports Core™ 2 Quad/ Core™ 2 Extreme/ Core™ 2 Duo/ Core™ Duo/ Pentium® 4/ Celeron® D with 65nm/ 45nm Process Technology
• FSB	1066/ 800/ 533MHz
• BIOS	Award 2MB SPI BIOS
• System Chipset	Intel® 82Q965/ 82801HB (ICH8)
• I/O Chip	Winbond W83627DHG-A
• System Memory	Four 240-pin DIMM Sockets Support Up to 8GB Dual Channel DDR2 800/ 667/ 533 SDRAM
• H/W Status Monitor	Monitoring Temperatures, Voltages and Fan Status With Auto Throttling Control
• Expansion	1 PCIe16, 3 PCI Slots (PCI Rev. 2.3 Compliant)
• S3	Yes
• TPM	TPM1.2 (Infineon TPM Chip 9635 TT 1.2 Onboard)
• SmartFan Control	Yes

### I/O

• MIO	1 x EIDE (UltraDMA 133/ 100/ 66/ 33), 2 x SATA, 1 x LPT, 4 x RS-232, 1x K/B, 1 x Mouse
• USB	6 x USB 2.0

### Audio

• Chipset	Intel® ICH8
• Audio Codec	Realtek ALC888 High-definition Audio Codec Supports 7.1+2-CH Independent Audio Streams
• Audio Interface	Mic-in, Line-in, CD Audio-in, Line-out
• Audio Amplifier	TPA3123D2 6W Stereo Per Channel

### Display

• Chipset	Intel® Q965 Integrated Intel® Graphics Media Accelerator 3000
• Display Memory	Intel® DVMT 4.0 Supports Up to 256MB Shared Video Memory
• Max. 3D Resolution	2048 x 1536 @ 32bpp (75Hz)
• VGA	Yes, Onboard GMA 3000
• LVDS	Through ADD2 LVDS Card (Customized BIOS)
• DVI-D	Through ADD2 DVI Card
• HDMI	Through ADD2 HDMI Card
• Secondary VGA	Through ADD2 VGA Card

### Ethernet

• LAN	Realtek RTL8111B Gigabit Ethernet
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### Mechanical & Environmental

• Power Requirement	+5V @ 10.37A, +12V @ 3.07A, +3.3V @ 2.83A (with Intel® Core™ 2 Duo E6300 1.86GHz & 1GB x 4 DDR2 SDRAM)
• Power Type	ATX
• Operating Temperature	0 ~ 60°C (32 ~ 140°F)
• Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
• Size (L x W)	9.6" x 9.6" (243.84mm x 243.84mm)
• Weight	0.88lbs (0.4Kg)

## Ordering Information

### • ERX-965Q2-A1R

Intel® Core™ 2 Quad/ Core™ 2 Extreme/ Core™ 2 Duo/  
Core™ Duo/ Pentium® 4/ Celeron® D Micro ATX Motherboard with Intel® Q965 +  
ICH8 Chipset and VGA, Audio, GbE, TPM, 4 COM, 6 USB, 1 PCIe16, 3 PCI & 6W  
AMP w/ SATA Cable, IDE Cable, Bracket, CD Driver