

Features

- Support 65 nm Intel® Core™ 2 Quad / Core™ 2 Duo / Core™ Duo / Pentium® 4 / Celeron® D CPU
- Intel® 82Q965 / ICH8 Chipset
- Two DIMMs up to 4 GB 2-CH DDR2 533/667/800 SDRAM
- Intel® Graphic Media Accelerator 3000
- Realtek ALC888 supports 5.1+2-CH Audio Streams, 6W AMP
- Realtek RTL8111B Gigabit Ethernet
- 1 PClex16 Supports ADD2 VGA/DVI/LVDS/HDMI Card
- 2 COM (5V/12V), 6 USB, 2 SATA
- TPM 9635TCG 1.2



System

CPU	Support Intel® LGA 775 Core™ 2 Quad / Core™ 2 Duo / Core™ Duo / Pentium® 4 / Celeron® D processor with 65 nm process technology
FSB	533/800/1066 MHZ
BIOS	Award 8MB
System Chipset	Intel® Q965 / ICH8
I/O Chip	Winbond W83627DHG-A
System Memory	Two 240-pin DIMM sockets up to 4GB Dual Channel DDR2 533/667/800 SDRAM
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring CPU temperature, voltage, and fan status with auto throttling control
Expansion	One PClex16
TPM	TPM (Infineon SLB 9635 TCG 1.2)
S3	S3 Support
SmartFan Control	Yes
I/O	
MIO	2 x SATA, 2 x RS-232, (COM 1, 2 with power output), 1 x K/B, 1 x Mouse
USB	6 x USB 2.0

Display

Chipset	Intel® 82Q965 GMCH integrated Graphics Media Accelerator 3000
Display Memory	Intel® DVMT 4.0 supports up to 256 MB shared video memory
Resolution	2048 x 1536 @ 32 bpp(@ 75Hz)
VGA/LCD	PClex16 VGA interface
HDMI	Through ADD2 HDMI Card
LVDS	Through ADD2 LVDS Card
DVI	Through ADD2 DVI Card
2nd VGA	Through ADD2 VGA Card

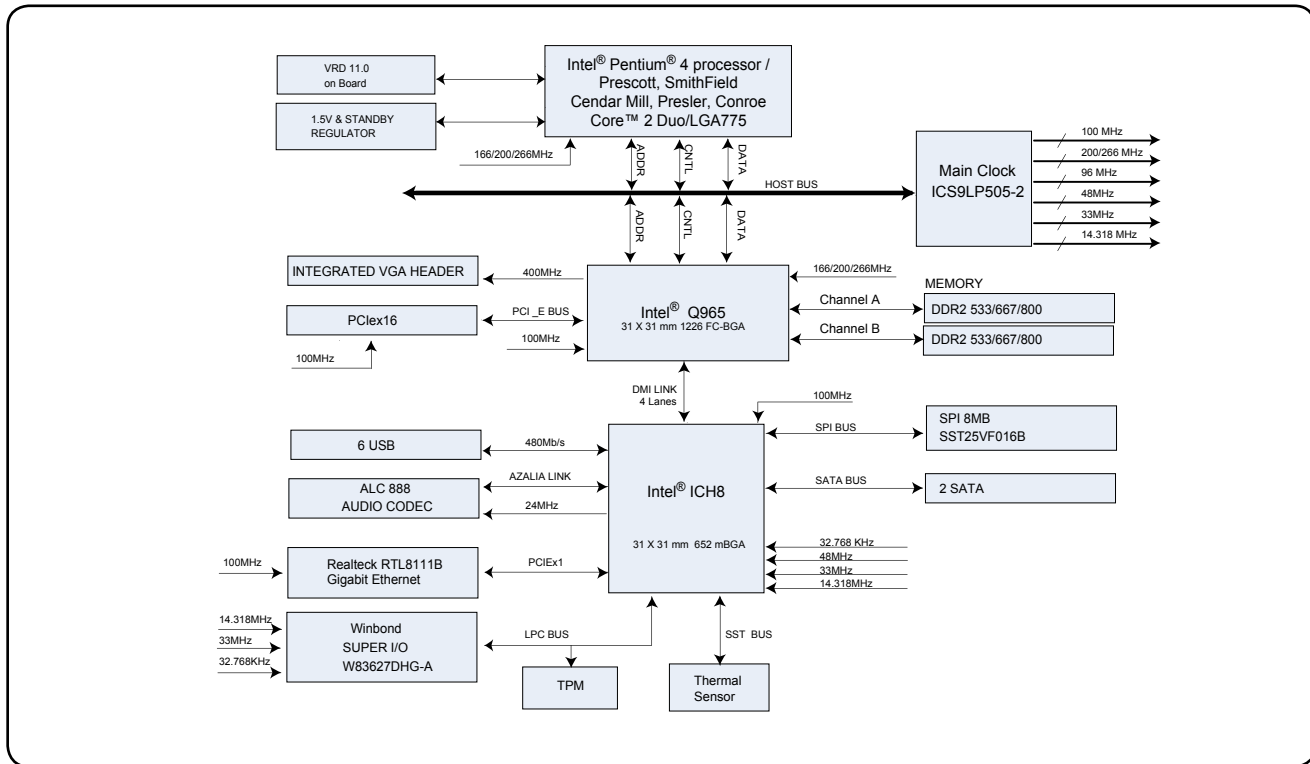
Audio

Audio Codec	Realtek ALC888 high-definition Audio Codec supports 5.1+2-CH independent audio streams
Audio Interface	Mic in, Line in, Line out
Audio Amplifier	TPA3005D2 6W (per front channel) stereo amplifier

Ethernet

LAN	Realtek RTL8111B PCIe Gigabit Ethernet
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Block Diagram



1
ATX

2
Micro
ATX

3
Mini
ITX

4
Nano
ITX

Rear 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
- 4 x USB 2.0/1.1
- 1 x RJ-45 Port
- Audio I/O (3 Jacks)

Internal I/O Connector

- 1 x USB connectors support 2 USB ports
- 1 x 20-pin ATX Power connector
- 1 x 4-pin ATX12V Power connector
- 2 x SATA connectors
- 1 x Audio amplifier connector
- 1 x System panel connector
- 1 x CPU Fan connector
- 1 x System Fan connector

Mechanical & Environmental

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

5
ACP

6
System

7
Accessory

Ordering Information

EMX-965Q-A1R

Intel® Q965 Core™ 2 Duo Mini ITX Motherboard with VGA, Audio, GbE, 2 COM, 6 USB, 2 SATA, 1 PCIex16, 6W AMP & TPM w/ SATA cable, Bracket, CD driver