

### Features

- Supports 45nm Intel® Core™2 Quad Processors
- Intel® Q35 / ICH9DO Chipset
- Four DIMMs up to 8 GB 2-CH DDR2 800 SDRAM, non-ECC
- Intel® Graphics Media Accelerator 3100
- Realtek ALC888 Supports 5.1+2-CH Dual HD Audio Streams, 6W AMP
- Dual Realtek RTL8111C Gigabit LAN
- 1 PCIe16, 1 PCIe1, 5 PCI
- 4 x COM (5/12V), 6 x SATA, 12 x USB, 16-bit DIO
- TPM 1.2



### System

<b>CPU</b>	LGA775 socket supports Intel® Core™2 Quad / Core™2 Duo Processors with 45nm process technology
<b>FSB</b>	1333 / 1066 / 800 MHz
<b>BIOS</b>	AMI 32 Mb SPI BIOS
<b>System Chipset</b>	Intel® Q35 GMCH / ICH9DO
<b>I/O Chip</b>	Winbond W83627DHG-A
<b>System Memory</b>	Four 240-pin DIMM sockets support up to 8 GB Dual Channel DDR2 800/667 SDRAM, non-ECC
<b>Watchdog Timer</b>	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
<b>H/W Status Monitor</b>	Monitoring temperatures, voltages, and cooling fan status. Auto throttling control when CPU overheats
<b>Expansion</b>	One PCI Express X16, one PCI Express X 1, Five PCI (PCI Rev. 2.3 compliant)
<b>S3/S4</b>	Yes
<b>TPM</b>	TPM1.2 (Infineon® TPM chip 9635 TT 1.2 on board)
<b>Wake up Mode</b>	LAN mode (PME / RPL)
<b>SmartFan Control</b>	Yes , support 3 modes (Silent/Optimal/Performance)

### I/O

<b>MIO</b>	1 x EIDE 66/100/133, 6 x SATA II, 1 x LPT, 4 x RS-232 (5V/12V output) , 1 x K/B, 1 x Mouse, 1 x FDD
<b>USB</b>	12 x USB 2.0
<b>DIO</b>	16 bit DIO (8-in/8-out by PCA9555)

### Display

<b>Chipset</b>	Intel® Q35 GMCH integrated Graphics Media Accelerator 3100
<b>Display Memory</b>	Intel® DVMT 4.0 supports up to 256 MB video memory
<b>Max. Resolution</b>	2048 x 1536 @ 32 bpp (75Hz)
<b>VGA</b>	Yes, on board GMA 3100
<b>LVDS</b>	Through ADD2 LVDS Card
<b>DVI</b>	Through ADD2 DVI Card
<b>HDMI</b>	Through ADD2 HDMI Card
<b>Secondary VGA</b>	Through ADD2 VGA Card

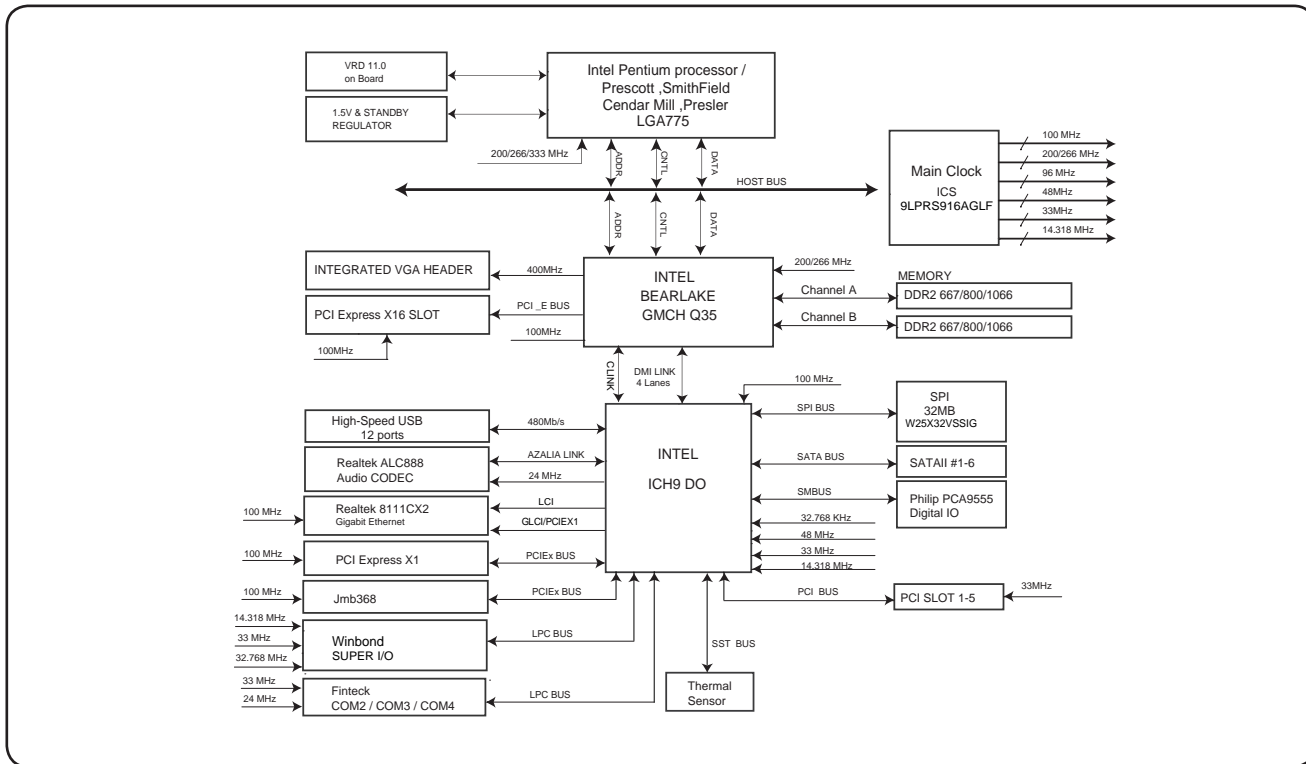
### Audio

<b>Audio Codec</b>	Realtek® ALC888 high-definition Audio Codec supports 5.1+2-CH multiple streamings HD Audio
<b>Audio Interface</b>	Mic in, Line in, CD Audio in, Line out
<b>Audio Amplifier</b>	TPA3005D2 6W (per front channel) stereo amplifier

### Ethernet

<b>LAN 1</b>	Realtek RTL8111C PCI-E Gigabit Ethernet Controller
<b>LAN 2</b>	Realtek RTL8111C PCI-E Gigabit Ethernet Controller

## Block Diagram



1

ATX

2

Micro  
ATX

3

Mini  
ITX

4

Nano  
ITX

### Back Panel I/O Port

<b>Back Panel I/O Port</b>	<ul style="list-style-type: none"> <li>1 x PS/2 Keyboard</li> <li>1 x PS/2 Mouse</li> <li>1 x VGA port</li> <li>1 x Parallel port</li> <li>1 x COM Port</li> <li>2 x RJ45 port</li> <li>4 x USB 2.0/1.1</li> <li>Audio Jack (3 ports)</li> </ul>
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### Internal I/O Connector

<b>Internal I/O Connector</b>	<ul style="list-style-type: none"> <li>4 x USB connectors support additional 8 USB ports (with 5V dual)</li> <li>1 x Floppy disk drive connector</li> <li>1 x IDE connector</li> <li>6 x SATA connectors</li> <li>1 x CPU Fan header (support PWM &amp; DC fan)</li> <li>1 x Chassis Fan header (support DC fan only)</li> <li>1 x Power Fan header (support DC fan only)</li> <li>3 x COM port headers ( RS-232 x 3)</li> <li>1 x Front panel header</li> <li>1 x S/PDIF Out Header</li> <li>1 x Chassis Intrusion header</li> <li>1x CD in header (Optional)</li> <li>1 x 24-pin ATX Power connector</li> <li>1 x 4-pin ATX 12V Power connector</li> <li>1 x DIO pin header (8in/8out)</li> <li>1 x Audio Amplifier</li> </ul>
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### 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>	12" x 9.6" (304.8 mm x 243.84 mm)
<b>Weight</b>	1.32 lbs (0.6 Kg)

### Ordering Information

#### EAX-Q35-A1R

Intel® Q35 LGA775 Core™2 Quad ATX Motherboard with VGA, Audio, Dual Gb LAN, 4 COM, 12 USB, 1 PCI-Ex16, 1 PCI-Ex1, 5 PCI, TPM, 16-bit DIO & 6W AMP w/ SATA cable, IDE cable, Bracket, CD driver