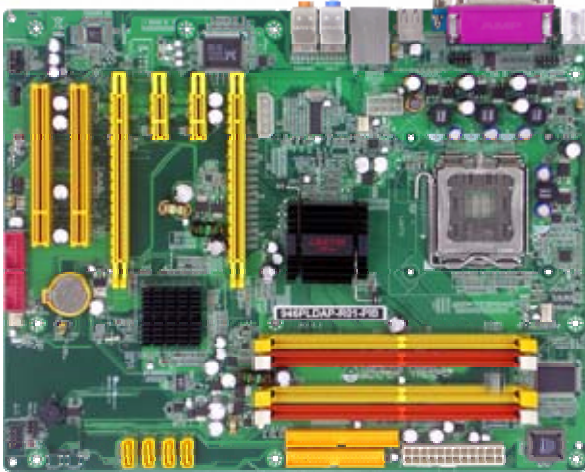


## Mainboard Diagram



### 946GZDAP-OC

- Intel 946GZ Express Chipset + ICH7 ICH Chipset
- Intel Intel LGA775 Conroe Processor
- Embedded Intel GMA 3000 GFX Core
- Support FSB 800 / 533 MHz
- Dual Channel DDR2 667 / 533 Memory DIMMs
- Support Bi-GPU-Link with 2 PCI-Express x16 Slots Design
- Support 4 Serial ATA Devices
- Support 2 ATA-100 IDE Devices
- 8 USB2.0 Connectors Embedded
- 10 / 100 LAN & OC-CON Capacitor
- AZALIA 8 Channel Audio CODEC
- CPU Vcore 7-Shift
- ATX Form Factor



## Features and Benefits

### LGA775 Intel Core 2 Duo E Series 65nm Processor with Shared 4MB L2 Cache Supported

Innovative design which meets the world's most advanced 65 nanometer Chip-Making Process technology based Intel® Core 2 Duo E6700, E6600, E6400, E6300, E4200 and beyond Processors with and embedded 4MB / 2MB L2 Cache for demanding usage of Home Networking and Game Enthusiasts.

### INTEL 946GZ Express Chipset and ICH7 Chipset

Desktop PC platforms based on the Intel® 946 Express Chipset family, combined with either the Intel® Core™2 Duo processor or Intel® Pentium® D processor, deliver innovative capabilities and usages for everyday computing. Exciting improvements bring new capabilities to everyday value conscious users..

### INTEL Graphics Media Accelerator 3000

The Intel 946GZ Express Chipset 3D enhancements enable greater game compatibility with software based transform & lighting (T&L), and improved realism with support for Microsoft DirectX\* 9.0c, OpenGL\* 1.4, and floating point operations..

### CPU Thermal Throttling / The Anti-superheated CPU protection Technology

To prevent the increasing heat from damaging of CPU while the activation of the Bi-turbo technology, the CPU Thermal Throttling Technology will make CPU be idling from 87.5% to 12.5% by manually preset CPU operating temperature from 40°C to 90°C. When the system senses the climbing operating temperature of CPU over the value preset, CPU Thermal Throttling Technology will narrow the operating bandwidth of CPU actively to low down the temperature to the value preset as the perfect protection system of hardware dynamic over-clocking technology.

### Bi-GPU-Link / Advanced Dual PCI Express Graphics Interfaces Solutions

With the innovative one PCI Express x16 slot and one Opened-PCI-Express x4 slot design, the 945P Express chipset based motherboard offers with two PCI Express graphics interfaces with full bandwidth of 16 lanes and quarter bandwidth of 16 lanes for the latest released PCI Express x16 compatible VGA cards of both NVIDIA & ATI. By running dual PCI-Express graphics cards simultaneously, this motherboard provides the ability to connect to as many as four separate displays.

### CPU Smart Fan / The Noise Restrained System

It's never been a good idea to sacrifice the sound effects for gaining the performance you need. CPU Smart Fan Noise Restrained System is the answer to all the noise restrained needed high performance computing system, the system will automatically increase the fan speed when CPU operating loading is high, after the CPU is in normal operating condition, the system will low down the fan speed for the silent operating environment. The system can provide the much longer life cycle for both CPU and the system fans for game use and business requirements.

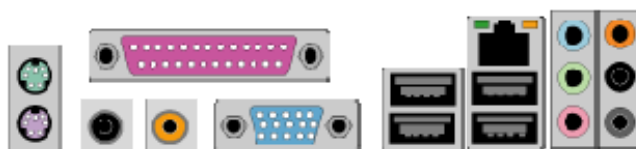
### OC-CON high-polymer solid electrolysis aluminum capacitors embedded

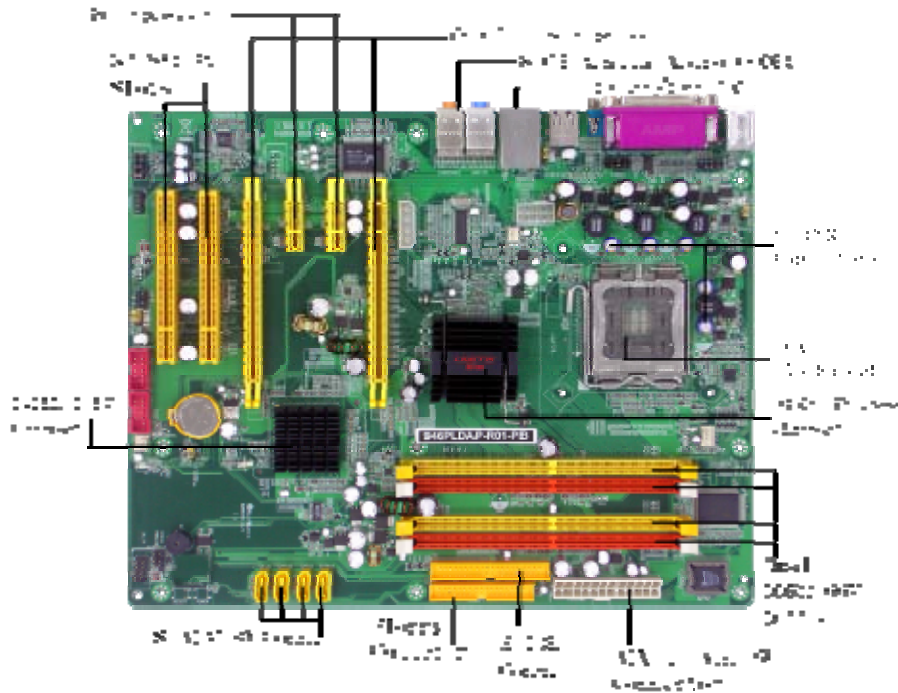
The working temperature is from 55 degrees Centigrade below zero to 125 degrees Centigrade, OC\_CON capacitors possess superior physical characteristics that can be while reducing the working temperature between 20 degrees Centigrade each time, intact extension 10 times of effective product operation lives, at not rising degrees Centigrade of working temperatures each time a relative one, life of product decline 10% only too.

### CPU Vcore Shift / Shift\_to the scalabilities and flexibilities

The adjustable voltage for CPU Vcore can be upgraded over 13 stages for the precisely hardware dynamic over-clocking of demanding computing performance.

## Rear I / O





## Mainboard Specifications

■ CPU	■ LGA 775 Socket for FSB 1066 / 800 / 533 MHz Intel® Core 2 Duo E Series Processor With 4MB Shared L2 Cache (Code Name: Conroe)
■ Chipset	■ INTEL 946GZ Express Chipset + ICH8 Chipset
■ Memory	■ 4 * 240-pin DIMM Sockets for unbuffered Dual DDR2 533 / 400 SDRAM up to 8 GB
■ Expansion Slots	■ 2 * 32-bit PCI Slots / 2 * PCI EXPRESS x1 / 1 * PCI EXPRESS x16 / 1 * PCI EXPRESS x4
■ Storage	<ul style="list-style-type: none"> <li>■ Embedded INTEL ICH7 Chipset Supports 2 * Ultra DMA 100 / 66 IDE Devices</li> <li>■ Embedded INTEL ICH7 Chipset Supports 4 Serial ATA HDDs</li> </ul>
■ Audio	■ Realtek ALC850 Azalia 8-Channel AC 97' Audio CODEC
■ Ethernet LAN	■ Realtek RTL8110C 10 / 100 LAN
■ USB	■ Embedded 8 * High Speed USB @ 480 Mbit / s
■ Special Features	<ul style="list-style-type: none"> <li>■ Advanced Power Design that supports the latest LGA 775 Conroe Processor</li> <li>■ Embedded Intel GMA 3000 GFX Core</li> <li>■ Embedded OC-CON high-polymer solid electrolysis aluminum capacitors</li> <li>■ "IMAGE IT!" System Backup Software and "ProMagicPLUS!" System Recovery System</li> </ul>
■ Rear Panel I / O	<ul style="list-style-type: none"> <li>■ 4 * High Speed USB Connectors @ 480 Mbit / s</li> <li>■ 1 * D-Sub 15-pin Conector</li> <li>■ 1 * Coaxial Audio In Conn. &amp; 1 * Coaxial Audio out Conn.</li> <li>■ 1 * PS / 2 Mouse &amp; 1 * PS/2 Keyboard</li> <li>■ 1 * RJ45 Connector</li> <li>■ 1 * Audio I / O</li> </ul>
■ Internal I / O	<ul style="list-style-type: none"> <li>■ 2 * High Speed USB Connectors @ 480 Mbit / s for 4 USB 2.0 Ports</li> <li>■ CPU / Chassis Fan Connectors; 25-pin Parallel connector</li> <li>■ 1 * 12V 6-pin ATX Power Connector and 1 * 24-pin ATX Power Connector</li> <li>■ CD / AUX Audio in</li> <li>■ 1 * Serial Port Header</li> <li>■ 1 * Large 4-Pin 12V Male Connector</li> </ul>
■ BIOS	■ Award 4 MB Flash ROM
■ Form Factor	■ ATX Form Factor