

## Mainboard Diagram



### 966PDAG / 966GDAGE

- Intel P965 Express Chipset + ICH8 ICH Chipset
- Intel Intel LGA775 Conroe Processor
- Support FSB 1066MHz
- Dual Channel DDR2 800 / 667 / 533 Memory DIMMs
- Support Bi-GPU-Link with 2 PCI-Express x16 Slots Design
- Support 3 Serial ATA2 Devices
- Support 2 ATA-133 IDE Devices
- 10 USB2.0 Connectors Embedded
- Dual Gigabit LAN & OC-CON Capacitor
- AZALIA 8 Channel Audio CODEC
- 2 IEEE1394 Port(Optional)
- 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 P965 Express Chipset and ICH8 Chipset

The Intel P965 Express Chipset incorporates Intel® Fast Memory Access, an updated Memory Controller Hub (MCH) backbone architecture that significantly increases overall system performance through the optimization of available bandwidth and reduction of memory access latency. This updated MCH with Intel Fast Memory Access also includes wider internal data buses that support dual-channel DDR2 memory technology at 800 MHz (up to 12.8 GB/s of peak memory bandwidth) for greater platform performance and memory flexibility.

### INTEL® Fast Memory Access

Updated Graphics Memory Controller Hub (GMCH) backbone architecture that improves system performance by optimizing the use of available memory bandwidth and reducing the latency of the memory accesses

### 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 P965 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

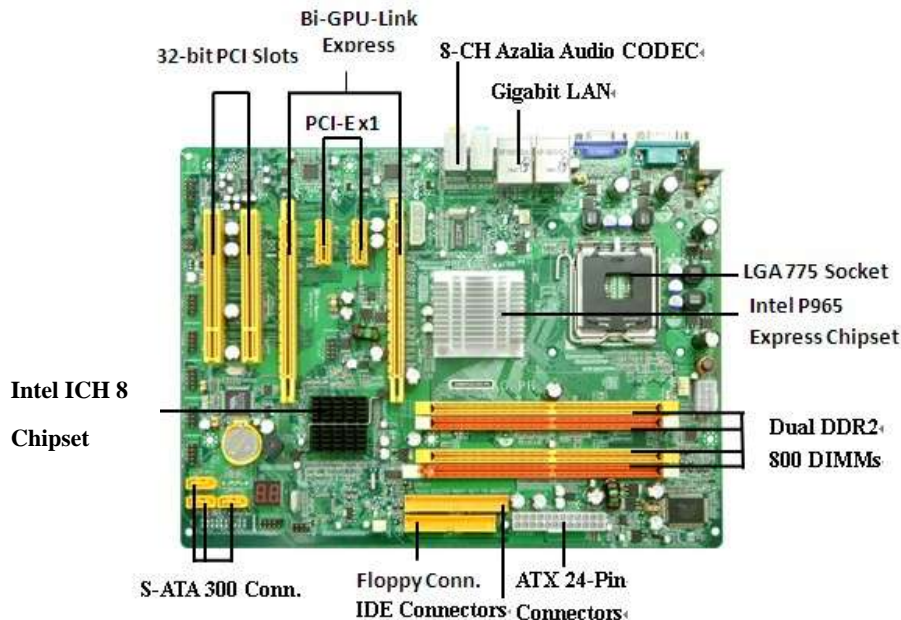
The working temperature is from 55 degrees Centigrade below zero to 125 degrees Centigrade, OC\_CON capacitors possess superior physical characteristics that can be while reducing the working temperature between 20 degrees Centigrade each time, intact extension 10 times of effective product operation 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 P965 Express Chipset + ICH8 Chipset
■ Memory	■ 4 * 240-pin DIMM Sockets for unbuffered Dual DDR2 800 / 667 / 533 SDRAM up to 8 GB
■ Expansion Slots	■ 2 * 32-bit PCI Slots / 2 * PCI EXPRESS x1 / 2 * PCI EXPRESS x16
■ Storage	<ul style="list-style-type: none"> <li>■ Embedded JMicronJM20330 Chipset Supports 2 * Ultra DMA 133 / 100 / 66 IDE Devices and RAID 0, 1, 0+1 functions.</li> <li>■ Embedded INTEL ICH8 Chipset Supports 3 Serial ATA2 HDDs</li> </ul>
■ Audio	■ Realtek ALC888 Azalia 8-Channel Audio CODEC
■ Ethernet LAN	■ Dual Realtek RTL8111B 10 / 100 / 1000 LAN
■ USB	■ Embedded 10 * 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 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 * 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 * VGA Port</li> <li>■ 1 * Audio I / O</li> </ul>
■ Internal I / O	<ul style="list-style-type: none"> <li>■ 3 * High Speed USB Connectors @ 480 Mbit / s for 6 USB 2.0 Ports</li> <li>■ CPU / Chassis Fan Connectors; 25-pin Parallel connector</li> <li>■ 1 * 12V 4-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 * Parallel Port header</li> <li>■ 2 * IEEE1934a Port header (Optional)</li> <li>■ 1 * IR Header</li> </ul>
■ BIOS	■ Award 4 MB Flash ROM
■ Form Factor	■ ATX Form Factor