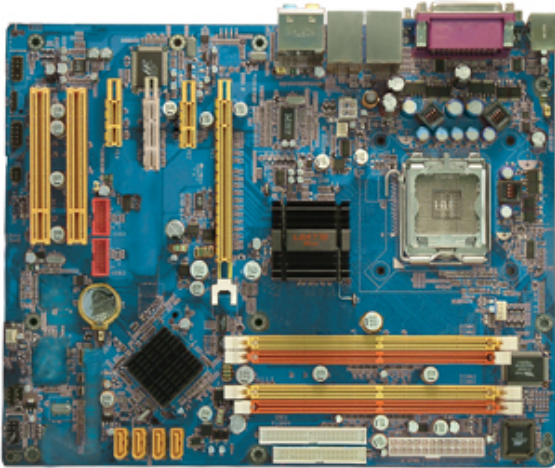


Mainboard Diagram



945PDG

- Intel 945P Express Chipset + ICH7R ICH Chipset
- Intel Dual-Core LGA775 Pentium 4 CPU
- Support FSB 1066MHz
- Dual Channel DDR2 667/533 Memory DIMMs
- Support Bi-GPU-Link with 2 PCI-Express x16 Slots Design
- Support 4 Serial ATA2 Devices with RAID 0, 1, 5, 10
- 8 USB2.0 Connectors Embedded
- Dual Gigabit LAN Supported
- AZALIA 8 Channel Audio CODEC
- CPU Vcore 7-Shift
- ATX Form Factor



Features and Benefits

LGA775 Pentium® D & Pentium® 4 Processor with HT Technology Supported

Supports Intel® Pentium® D processor, Intel® Pentium® 4 Processor with HT Technology and all other Intel® Pentium processors and Intel® Celeron® processors in the LGA775 socket, with scalability for future processor innovations.

INTEL 945P Express Chipset and ICH7R Chipset

The Intel 945P Express Chipset delivers outstanding system performance through high-bandwidth interfaces such as dual-channel DDR2 memory, 1066/800 MHz system bus, PCI Express* x16 graphics port and PCI Express x1 I/O ports, next generation Serial ATA and Hi-Speed USB 2.0 connectivity. In addition, the Intel 945P Express Chipset includes support for Intel® Active Management Technology, the next generation of remote client network management for business.

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.

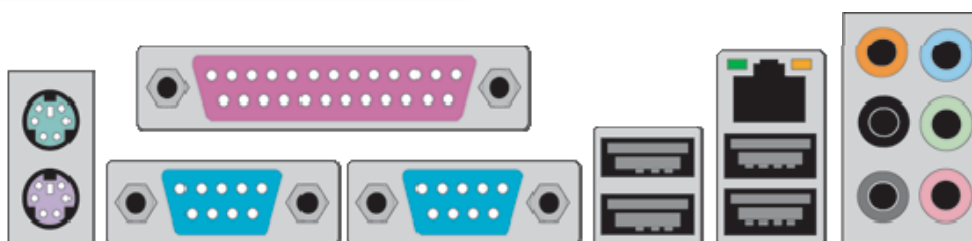
OC-CON high-polymer solid electrolysis aluminum capacitors embedded

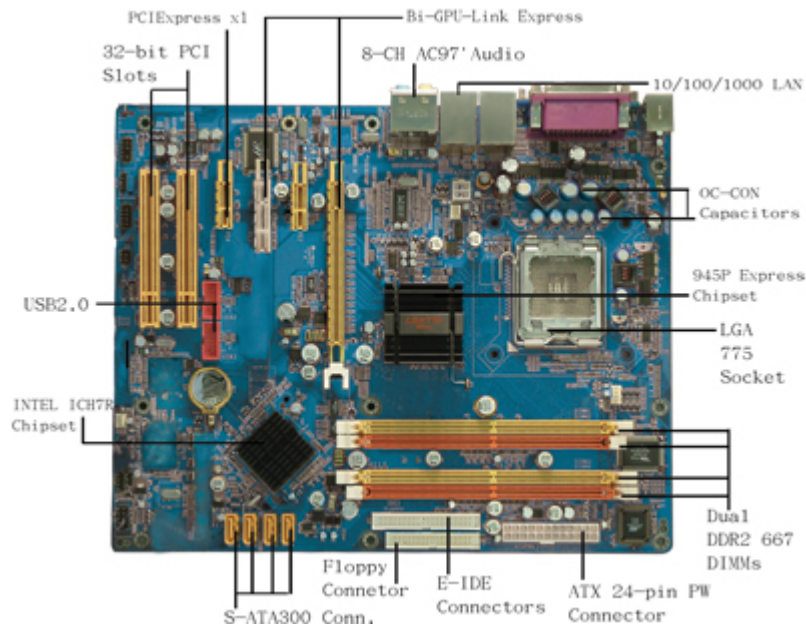
The working temperature is from 55 degrees Centigrade below zero to 125 degrees Centigrade, OC_CON capacitors possess superior physical characteristics that can be while reducing the working temperature between 20 degrees Centigrade each time, intact extension 10 times of effective product operation 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	<ul style="list-style-type: none"> ■ LGA 775 Socket for FSB 1066 / 800 / 533 MHz Intel® Pentium 4 With Hyper Threading Technology ■ Compatible with Intel® 05B/05A and 04B/04A processors Intel® EM64T/ EIST*
■ Chipset	<ul style="list-style-type: none"> ■ INTEL 945P Express Chipset + ICH7R Chipset
■ Memory	<ul style="list-style-type: none"> ■ 4 * 240-pin DIMM Sockets for unbuffered Dual DDR2 667 / 533 / 400 SDRAM up to 4 GB
■ Expansion Slots	<ul style="list-style-type: none"> ■ 2 * 32-bit PCI Slots / 2 * PCI EXPRESS x1 / 1 * PCI EXPRESS x16 / 1 * PCI EXPRESS x4
■ Storage	<ul style="list-style-type: none"> ■ 2 * Ultra DMA 100 / 66 / 33 IDE Devices Support ■ Embedded ICH7R Chipset Supports 4 Serial ATA2 HDDs with RAID Functions.
■ Audio	<ul style="list-style-type: none"> ■ Realtek ALC Azalia 8-Channel AC 97' Audio CODEC
■ Ethernet LAN	<ul style="list-style-type: none"> ■ Marvel 88E8001 PCI 10 / 100 / 1000 LAN
■ USB	<ul style="list-style-type: none"> ■ Embedded 8 * High Speed USB @ 480 Mbit / s
■ Special Features	<ul style="list-style-type: none"> ■ Advanced Power Design that supports the latest LGA 775 P4 CPU ■ Embedded OC-CON high-polymer solid electrolysis aluminum capacitors ■ "IMAGE IT!" System Backup Software and "ProMagicPLUS!" System Recovery System
■ Rear Panel I / O	<ul style="list-style-type: none"> ■ 4 * High Speed USB Connectors @ 480 Mbit / s ■ 2 * Serial Port ■ 1 * PS / 2 Mouse & 1 * PS/2 Keyboard ■ 2 * RJ45 Connector ■ 1 * Audio I / O
■ Internal I / O	<ul style="list-style-type: none"> ■ 2 * High Speed USB Connectors @ 480 Mbit / s for 4 USB 2.0 Ports ■ CPU / Chassis Fan Connectors; 25-pin Parallel connector ■ 1 * 12V 4-pin ATX Power Connector and 1 * 24-pin ATX Power Connector ■ CD / AUX Audio in
■ BIOS	<ul style="list-style-type: none"> ■ Award 4 MB Flash ROM
■ Form Factor	<ul style="list-style-type: none"> ■ ATX Form Factor