

Mainboard Diagram



I31GM3

- Intel G31 Express Chipset +Intel ICH7 Chipset
- Intel® Core™2 Duo and the Intel® Core™2 Quad CPU
- Support FSB 1333MHz
- Dual Channel DDR2 800 / 667 / 533 Memory DIMMs
- Integrated GMA3100
- Support 1 PCI-Express x16 Slot Design
- Support 4 Serial ATA2 Devices
- Support 1 ATA-100 IDE Devices
- 8 USB2.0 Connectors Embedded
- Gigabit LAN Supported
- HD 8 Channel Audio CODEC
- CPU Vcore 7-Shift
- Micro ATX Form Factor



Features and Benefits

LGA775 Intel Core Processor Family Supported

The Intel® Core™ processor family delivers unrivaled performance and breakthrough energy efficiency. For your extreme computing, the Intel core processor family delivers unrivaled performance and breakthrough energy efficiency, to let you enjoy revolutionary performance with vivid, high-definition experiences and multi-tasking responsiveness by state-of-the-art Intel dual-core and quad-core technologies (Core 2 Extreme, Core 2 Quad and Core 2 Duo Processors).

INTEL G31 Express Chipset and ICH7 Chipset

The Intel G31 Express Chipset supports new technologies such as 1066 MHz System Bus speed, next-generation 45nm dual- and quad-core processors, and DDR2 memory to deliver increased system bandwidth and improved performance. With built-in design headroom, Intel® Fast Memory Access (Intel® FMA) and Intel® Turbo Memory, platforms based on the Intel G31 Express Chipset enable best-of-class performance and offer the best value for performance desktop computing. Desktop PC platforms based on the Intel G31 Express Chipset, combined with either the Intel® Core™2 Duo or Intel® Core™2 Quad processor, deliver new technologies and innovative capabilities for enthusiasts and digital home consumers

INTEL Graphics Media Accelerator 3100

The Intel G31 Express Chipset Integrated GMA3100 enables enhanced 3D and high-definition video technologies for a better end-user experience. 3D enhancements enable greater flexibility and scalability and improved realism with support for Microsoft DirectX® 9.0c Shader Model 2.0, OpenGL® 1.5. Intel® Graphics also support the highest levels of the Windows Vista® Aero experience

CPU Thermal Throttling / The Anti-superheated CPU protection Technology

To prevent the increasing heat from damaging of CPU, 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.

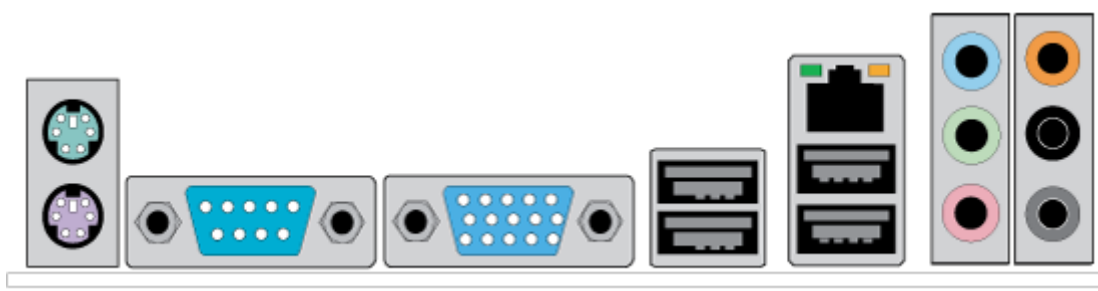
OC-CON high-polymer solid electrolysis aluminum capacitors embedded

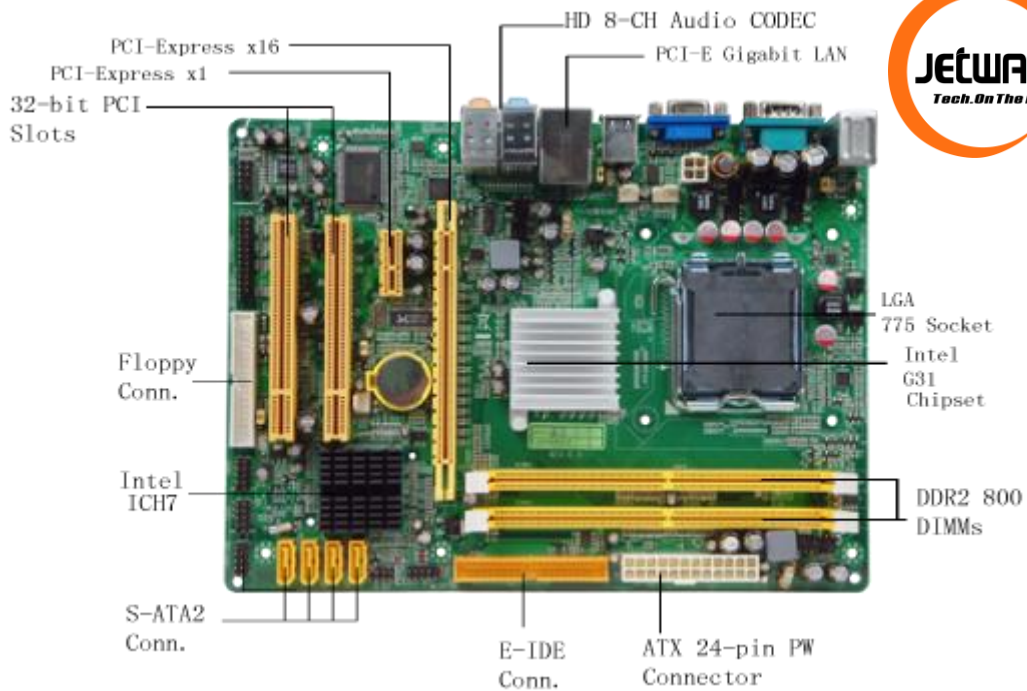
The working temperature is from 55 degrees Centigrade below zero to 125 degrees Centigrade, OC_CON capacitors possess superior physical characteristics that can be while reducing the working temperature between 20 degrees Centigrade each time, intact extension 10 times of effective product operation 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 1333 / 1066 / 800 MHz Intel® Core 2 Quad, Core 2 Duo Processors
■ Chipset	■ INTEL G31 Express Chipset + ICH7 Chipset
■ Memory	■ 2 * 240-pin DIMM Sockets for unbuffered Dual DDR2 800 / 667 / 533 SDRAM up to 4 GB
■ Expansion Slots	■ 2 * 32-bit PCI Slots / 1 * PCI EXPRESS x16 / 1 * PCI EXPRESS x1
■ Storage	■ Embedded INTEL ICH7 Chipset Supports 2 * Ultra DMA 100 / 66 IDE Devices and 4 SATA devices
■ Audio	■ Realtek ALC883 Azalia 8-Channel' Audio CODEC
■ Ethernet LAN	■ Marvell 88E8056 PCI Express Gigabit LAN
■ USB	■ 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 Core Processor ■ 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 ■ 1 * PS / 2 Mouse & 1 * PS/2 Keyboard ■ 1 * RJ45 Connector ■ 1 * Serial COM Port ■ 1 * Audio I / O ■ 1 * VGA connector
■ 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; ■ 1 * 12V 8-pin ATX Power Connector and 1 * 24-pin ATX Power Connector ■ CD Audio in ■ 1 * Serial Port Header ■ 1 * Parallel Header
■ BIOS	■ Award 8 MB SPI Flash ROM
■ Form Factor	■ Micro ATX Form Factor