

Motherboard

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GA-G31M-ES2L (rev. 1.x)

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Help

Intel® G31 + ICH7 Chipset

1. Revolution energy saving design with Easy Energy Saver technology to FSB 1600 (O.C.)
2. Supports Intel Core™ 2 multi-core and upcoming 45nm processors
3. Solid capacitors and Ferrite core choke design in CPU VRM
4. Dual Channel DDR2 1066(O.C.) for remarkable system performance
5. Integrated Intel Graphics Media Accelerator 3100 (Intel GMA 3100)
6. Features high speed Gigabit Ethernet
7. Integrated 8 channel High Definition audio
8. DualBIOS solution gives a multiple security to the system

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Specifications

CPU	1. Support for an Intel® Core™ 2 Extreme processor/ Intel® Core™ 2 Quad processor/Intel® Core™ 2 Duo processor/ Intel® Pentium® processor Extreme Edition/Intel® Pentium® D processor/ Intel® Pentium® 4 processor Extreme Edition/Intel® Pentium® 4 processor/ Intel® Celeron® processor in the LGA 775 package (Go to GIGABYTE's website for the latest CPU support list.) 2. L2 cache varies with CPU
Front Side Bus	1. 1600(O.C.)/1333/1066/800 MHz FSB
Chipset	1. North Bridge: Intel® G31 Express Chipset 2. South Bridge: Intel® ICH7
Memory	1. 2 x 1.8V DDR2 DIMM sockets supporting up to 4 GB of system memory 2. Dual channel memory architecture 3. Support for DDR2 1066(O.C.)/800/667 MHz memory modules (Go to GIGABYTE's website for the latest memory support list.)
Onboard Graphics	1. Integrated in the North Bridge
Audio	1. Realtek ALC883 codec 2. High Definition Audio 3. 2/4/5.1/7.1-channel (Note) 4. Support for S/PDIF Out 5. Support for CD In Note: To configure 7.1-channel audio, you need connect with the port of HD Audio standard via front panel and enable the multi-channel audio feature through the audio driver.
LAN	1. RTL 8111C chip (10/100/1000 Mbit)
Expansion Slots	1. 1 x PCI Express x16 slot 2. 1 x PCI Express x1 slot 3. 2 x PCI slots
Storage Interface	South Bridge: 1. 1 x IDE connector supporting ATA-100/66/33 and up to 2 IDE devices 2. 4 x SATA 3Gb/s connectors supporting up to 4 SATA 3Gb/s devices iTE IT8718 chip: 1. 1 x floppy disk drive connector supporting up to 1 floppy disk drive
USB	1. Integrated in the South Bridge 2. Up to 8 USB 2.0/1.1 ports (4 on the back panel, 4 via the USB brackets connected to the internal USB headers)
Internal I/O Connectors	1. 1 x 24-pin ATX main power connector 2. 1 x 4-pin ATX 12V power connector 3. 1 x floppy disk drive connector 4. 1 x IDE connector 5. 4 x SATA 3Gb/s connectors 6. 1 x CPU fan header 7. 1 x system fan header 8. 1 x front panel header 9. 1 x front panel audio header

	10. 1 x CD In connector 11. 1 x S/PDIF Out header 12. 2 x USB 2.0/1.1 headers 13. 1 x chassis intrusion header 14. 1 x power LED header
Back Panel Connectors	1. 1 x PS/2 keyboard port 2. 1 x PS/2 mouse port 3. 1 x parallel port 4. 1 x serial port 5. 1 x D-Sub port 6. 4 x USB 2.0/1.1 ports 7. 1 x RJ-45 port 8. 3 x audio jacks (Line In/Line Out/Microphone)
I/O Controller	1. ITE IT8718 chip
H/W Monitoring	1. System voltage detection 2. CPU temperature detection 3. CPU/System fan speed detection 4. CPU overheating warning 5. CPU/System fan fail warning 6. CPU fan speed control
BIOS	1. 2 x 4 Mbit flash 2. Use of licensed AWARD BIOS 3. PnP 1.0a, DMI 2.0, SM BIOS 2.4, ACPI 1.0b
Unique Features	1. Support for @BIOS 2. Support for Q-Flash 3. Support for Virtual DualBIOS 4. Support for Download Center 5. Support for Xpress Install 6. Support for Xpress Recovery2 7. Support for EasyTune 8. Support for Easy Energy Saver
Bundle Software	1. Norton Internet Security (OEM version)
Operating System	1. Support for Microsoft®Windows Vista/XP
Form Factor	1. Micro ATX form factor; 24.4cm x 19.4cm
Remark	1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website. 2. Due to most hardware/software vendors no longer offer support for Win9X/ME. If some vendors still has Win9X/ME drivers available, we will publish on website.

* The specification and pictures are subject to change without notice.

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* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.

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