GA-8I915ME Series

Intel® Pentium® 4 LGA775 Processor Motherboard

User's Manual

Rev. 1003 12ME-I915MES-1003



 * The WEEE marking on the product indicates this product must not be disposed of with user's other household waste and must be handed over to a designated collection point for the recycling of waste electrical and electronic equipment!!
 * The WEEE marking applies only in European Union's member states.

	Name : Timmy Huang	27, 2005	Date :May 27, 2005	(Stamp)
Date: May 27, 2005	Signature: Timmy Huang	Manufacturer/Importer	Manuf	
Signature: <u>Eric Lu</u>	General and Safety requirements for uninterruptible power systems (UPS)	□ EN 50091-1	Safety of household and similar electrical appliances	□ EN 60335
Representative Person's Name: ERIC LU	salety for information recinology equipment including electrical business equipment		Sarety requirements for mains operated electronic and related apparatus for household and similar general use	
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This device complies with part 15 of the FCC Rules. Operation is			part 10 for receiving and/or distribution from part 12 sound and television signals	part 10 part 12
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(a),Class B Digital Device			Limits and methods of measurement of radio disturbance characteristics of information technology equipment	X EN 55022
FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109	power systems (UPS)		broadcast receivers and associated equipment	
Conforms to the following specifications:	EMC requirements for uninterruptible	🗆 EN 50091- 2	Immunity from radio interference of	🗆 EN 55020
Model Number: GA-81915ME	Immunity requirements for household appliances tools and similar apparatus	🗆 EN 55014-2	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries	🗆 EN 55015
Product Name: Motherboard	Generic immunity standard Part 2: Industrial environment	□ EN 50082-2	portable tools and similar electrical apparatus	
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City of Industry, CA 91748	Information Technology equipment-Immunity	X EN 55024	c fradio disturbance characteristics of	🗆 EN 55013
Address: 17358 Railroad Street	by household appliances and similar electrical equipment "Voltage fluctuations"	12 EN 01000-3-3	high frequency equipment	
Responsible Party Name: G.B.T. INC. (U.S.A.)	Disturbances in supply systems caused	× EN 61000-3-2	Limits and methods of measurement of radio disturbance characteristics of	🗆 EN 55011
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5		Motherboard GA-8I915ME		
	o which it refers)	declare that the product paratus, system, installation to	declare that the product (description of the apparatus, system, installation to which it refers)	
Per FCC Part 2 Section 2.1077(a)	4 Germany	G.B.T. Technology Trading GMbH Ausschlager Weg 41, 1F 20537 Hamburg, Germany	G.B.T. Tecl Ausschlager Weg 4	
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Product Manual Classification

In order to assist in the use of this product, Gigabyte has categorized the user manual in the following:

- For detailed product information and specifications, please carefully read the "Product User Manual".
- For detailed information related to Gigabyte's unique features, please go to "Technology Guide" section on Gigabyte's website to read or download the information you need.

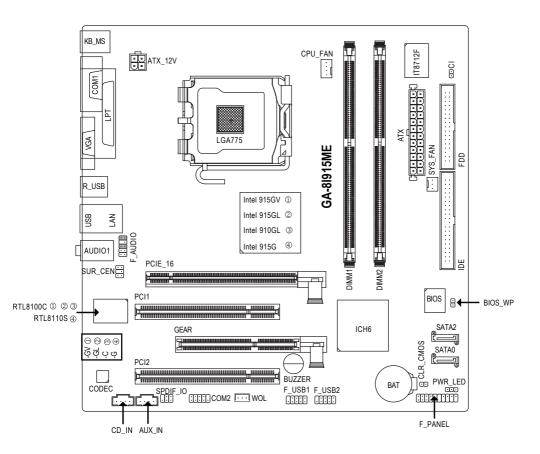
For more product details, please click onto Gigabyte's website at www.gigabyte.com.tw

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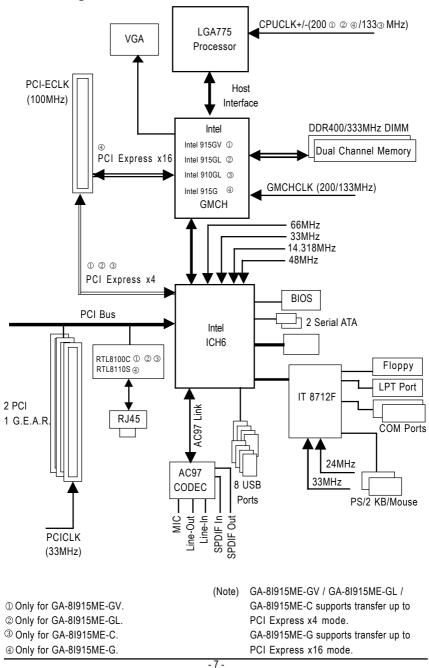
GA-8I915ME Series Motherboard Layout



1) Only for GA-8I915ME-GV.

- ② Only for GA-8I915ME-GL.
- $\ensuremath{^{\textcircled{3}}}$ Only for GA-8I915ME-C.
- ④ Only for GA-8I915ME-G.

Block Diagram



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Chapter 1 Hardware Installation

1-1 Considerations Prior to Installation

Preparing Your Computer

The motherboard contains numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Thus, prior to installation, please follow the instructions below:

- 1. Please turn off the computer and unplug its power cord.
- 2. When handling the motherboard, avoid touching any metal leads or connectors.
- It is best to wear an electrostatic discharge (ESD) cuff when handling electronic components (CPU, RAM).
- 4. Prior to installing the electronic components, please have these items on top of an antistatic pad or within a electrostatic shielding container.
- 5. Please verify that the power supply is switched off before unplugging the power supply connector from the motherboard.

Installation Notices

- 1. Prior to installation, please do not remove the stickers on the motherboard. These stickers are required for warranty validation.
- 2. Prior to the installation of the motherboard or any hardware, please first carefully read the information in the provided manual.
- 3. Before using the product, please verify that all cables and power connectors are connected.
- 4. To prevent damage to the motherboard, please do not allow screws to come in contact with the motherboard circuit or its components.
- 5. Please make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing.
- 6. Please do not place the computer system on an uneven surface.
- 7. Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user.
- 8. If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician.

Instances of Non-Warranty

- 1. Damage due to natural disaster, accident or human cause.
- 2. Damage as a result of violating the conditions recommended in the user manual.
- 3. Damage due to improper installation.
- 4. Damage due to use of uncertified components.
- 5. Damage due to use exceeding the permitted parameters.
- 6. Product determined to be an unofficial Gigabyte product.

1-2 Feature Summary

Motherboard	 GA-8I915ME Series motherboard -GA-8I915ME-GV / GA-8I915ME-GL / GA-8I915ME-C / GA-8I915ME-G
CPU	Supports the latest Intel [®] Pentium [®] 4 LGA775 CPU
UF U	
	Supports 800 ① ② ④ / 533MHz FSB
	L2 cache varies with CPU
Chipset	 Northbridge: Intel[®] 915GV ① /915GL ② /910GL ③ /915G ④ Express chipse
	Southbridge: Intel [®] ICH6
	 Supported on the Win 2000/XP operating systems
Memory	2 DDR DIMM memory slots (supports up to 4GB memory) (Note 1)
	 Supports dual channel DDR400/333 DIMM
	Supports 2.5V DDR DIMM
Slots	1 PCI Express x 16 slot (Note 2)
	• 1 G.E.A.R. slot (Note 3)
	2 PCI slots
IDE Connections	 1 IDE connection (UDMA 33/ATA 66/ATA 100), allows connection of 2 IDE
	devices
	 Supported on the Win 2000/XP operating systems
FDD Connections	 1 FDD connection, allows connection of 2 FDD devices
Onboard SATA	2 Serial ATA connections
	 Supported on the Win 2000/XP operating systems
Peripherals	 1 parallel port supporting Normal/EPP/ECP mode
	 1 VGA port, onboard COM1/COM2 connection
	 8 USB 2.0/1.1 ports (rear x 4, front x 4 via cable)
	 1 front audio connector
	 1 PS/2 keyboard port
-	 1 PS/2 mouse port
Onboard LAN	 Onboard RTL8100C chip (10/100 Mbit) ① ② ③
	 Onboard RTL8110S chip (10/100/1000 Mbit) ④
	 1 RJ 45 port
	 Supported on the Win 2000/XP operating systems
Onboard Audio	Realtek ALC655 CODEC
	Supports Line In ; Line Out ; MIC In
	Supports 2 / 4 / 6 channel audio
	SPDIF In / Out connection
	CD In / AUX In connection
	Supports Jack-Sensing function
	 Supported on the Win 2000/XP operating systems
I/O Control	• IT8712F

Only for GA-8I915ME-GV.
 Only for GA-8I915ME-GL.
 Only for GA-8I915ME-C.
 Only for GA-8I915ME-G.

GA-8I915ME Series Motherboard

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Hardware Monitor	System voltage detection
	CPU temperature detection
	CPU / System fan speed detection
	CPU warning temperature
	CPU / System fan failure warning
	CPU smart fan control
BIOS	Use of licensed AWARD BIOS
	Supports Q-Flash
Additional Features	Supports @BIOS
	 Supports EasyTune 5 (only supports Hardware Monitor function)
Overclocking	
Form Factor Micro ATX form factor; 24.4 cm x 23.6 cm	

- (Note 1) 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.
 For example, 4 GB of memory size will instead be shown as 3.xxGB memory during system startup.
 GA-81915ME-C(910GL chipset) only supports up to 2GB memory.
- (Note 2) GA-8I915ME-GV / GA-8I915ME-GL / GA-8I915ME-C supports transfer up to PCI Express x4 mode.

GA-8I915ME-G supports transfer up to PCI Express x16 mode.

(Note 3) Please refer to the "Graphics Card Support List" for G.E.A.R slot on page 17 ~ page 19. G.E.A.R supporting transfer up to 33MHz and compatible with AGP 8X slot.

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Hardware Installation

1-3 Installation of the CPU and Heatsink



Before installing the CPU, please comply with the following conditions:

- 1. Please make sure that the motherboard supports the CPU.
- Please take note of the one indented corner of the CPU. If you install the CPU in the wrong direction, the CPU will not insert properly. If this occurs, please change the insert direction of the CPU.
 - 3. Please add an even layer of heat sink paste between the CPU and heatsink.
 - 4. Please make sure the heatsink is installed on the CPU prior to system use, otherwise overheating and permanent damage of the CPU may occur.
 - 5. Please set the CPU host frequency in accordance with the processor specifications. It is not recommended that the system bus frequency be set beyond hardware specifications since it does not meet the required standards for the peripherals. If you wish to set the frequency beyond the proper specifications, please do so according to your hardware specifications including the CPU, graphics card, memory, hard drive, etc.



HT functionality requirement content :

Enabling the functionality of Hyper-Threading Technology for your computer system requires all of the following platform components:

- CPU: An Intel® Pentium 4 Processor with HT Technology
- Chipset: An Intel® Chipset that supports HT Technology
- BIOS: A BIOS that supports HT Technology and has it enabled
- OS: An operation system that has optimizations for HT Technology

1-3-1 Installation of the CPU



Fig. 1 Gently lift the metal lever located on the CPU socket to the upright position.



Fig. 2 Remove the plastic covering on the CPU socket.

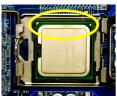


Fig. 3 Notice the small gold colored triangle located on the edge of the CPU socket. Align the

indented corner of the

CPU with the triangle and gently insert the CPU into position. (Grasping the CPU firmly between your thumb and forefinger, carefully place it into the socket in a straight and downwards motion. Avoid twisting or bending motions that might cause damage to the CPU during installation.)



Fig. 4 Once the CPU is properly inserted, please replace the load plate and push the metal lever back into its original position.

GA-8I915ME Series Motherboard

1-3-2 Installation of the Heatsink



Fig.1

Please apply an even layer of heatsink paste on the surface of the installed CPU.



Fig. 3

Place the heatsink atop the CPU and make sure the push pins aim to the pin hole on the motherboard.Pressing down the push pins diagonally.

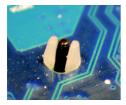


Fig. 5

Please check the back of motherboard after installing. If the push pin is inserted as the picture, the installation is complete.



-Male Push Pin

The top of Female Push Pin

- Female Push Pin

Fig. 2

(Turning the push pin along the direction of arrow is to remove the heatsink, on the contrary, is to install.)Please note the direction of arrow sign on the male push pin doesn't face inwards before installation. (This instruction is only for Intel boxed fan)



Fig. 4

Please make sure the Male and Female push pin are joined closely. (for detailed installation instructions, please refer to the heatsink installation section of the user manual)



Fig. 6

Finally, please attach the power connector of the heatsink to the CPU fan header located on the motherboard.



The heatsink may adhere to the CPU as a result of hardening of the heatsink paste. To prevent such an occurrence, it is suggested that either thermal tape rather than heat sink paste be used for heat dissipation or using extreme care when removing the heatsink.

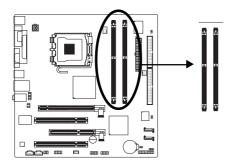
1-4 Installation of Memory



Before installing the memory modules, please comply with the following conditions:

- Please make sure that the memory used is supported by the motherboard. It is recommended that memory of similar capacity, specifications and brand be used.
- 2. Before installing or removing memory modules, please make sure that the computer power is switched off to prevent hardware damage.
- 3. Memory modules have a foolproof insertion design. A memory module can be installed in only one direction. If you are unable to insert the module, please switch the direction.

The motherboard supports DDR memory modules, whereby BIOS will automatically detect memory capacity and specifications. Memory modules are designed so that they can be inserted only in one direction. The memory capacity used can differ with each slot.



1. The DIMM slot has a notch, so the DIMM memory module can only fit in one direction.

- 2. Insert the DIMM memory module vertically into the DIMM slot. Then push it down.
- Close the plastic clip at both edges of the DIMM slots to lock the DIMM module. Reverse the installation steps when you wish to remove the DIMM module.









GA-8I915ME Series Motherboard

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Dual Channel DDR

GA-8I915ME-GV/GA-8I915ME-GL/GA-8I915ME-C/GA-8I915ME-G supports the Dual Channel Technology. After operating the Dual Channel Technology, the bandwidth of Memory Bus will add double.

GA-8I915ME-GV/GA-8I915ME-GL/GA-8I915ME-C/GA-8I915ME-G includes 2 DIMM sockets, and each Channel has two DIMM sockets as following:

- ➡ Channel A : DIMM1
- ➡ Channel B : DIMM2

If you want to operate the Dual Channel Technology, please note the following explanations due to the limitation of Intel chipset specifications.

- 1. If one DDR memory modules are installed: The Dual Channel Technolog cannot operate when one DDR memory modules are installed.
- 2. If two DDR memory modules are installed, please use memory of the same storage capacity in order to use dual channel memory and for BIOS to detect all the DDR memory modules.

We'll strongly recommend our user to slot two DDR memory modules into the DIMMs with the same color in order for Dual Channel Technology to work.

1-5 Installation of Expansion Cards

You can install your expansion card by following the steps outlined below:

- 1. Read the related expansion card's instruction document before install the expansion card into the computer.
- 2. Remove your computer's chassis cover, screws and slot bracket from the computer.
- 3. Press the expansion card firmly into expansion slot in motherboard.
- 4. Be sure the metal contacts on the card are indeed seated in the slot.
- 5. Replace the screw to secure the slot bracket of the expansion card.
- 6. Replace your computer's chassis cover.
- 7. Power on the computer, if necessary, setup BIOS utility of expansion card from BIOS.
- 8. Install related driver from the operating system.

Installing a PCI Express x 16/G.E.A.R. expansion card:





Please carefully pull out the small whitedrawable bar at the end of the PCI Express x 16/G.E.A.R. slot when you try to install/Uninstall the VGA card. Please align the VGA card to the onboard PCI Express x 16/G.E.A.R. slot and press firmly down on the slot .Make sure your VGA card is locked by the small whitedrawable bar.

1-5-1 What is G.E.A.R.?

The revolutionary and innovative G.E.A.R. (GIGABYTE Enhance AGP Riser) interface provides an additional interface for traditional AGP Graphics card on Intel chipset based PCI Express solution motherboard. It supports most of the AGP Graphics card available in the market from AGP 4X to AGP 8X graphics card.

Note:

- 1. Please remove the sticker on the G.E.A.R. slot before inserting your AGP graphics card.
- G.E.A.R. interface is designed to provide a temporary AGP solution before the mass availability of PCI Express graphics card. It is suggested to use PCI Express X 16 interface graphics card to avoid the damage of your AGP graphics card.
- 3. G.E.A.R. interface is created through PCI interface signal and voltage switching to AGP interface, due to this technical specification difference, it might cause AGP graphics card life-span shortens.
- 4. Please view the graphics cards support list currently validated by GIGABYTE enginneers. For more updated information, please logon to GIGABYTE website at http://www.gigabyte.com.tw

1-5-2 Graphics Card Support List

(The items below are all supported under the Windows XP operating system. When using an add-on graphics card, please first delete the onboard graphics driver before installing the driver for the add-on graphics card.)

Graphics Chip	Maker	Model Name
Nvidia	Gigabyte	GA-620
	Gigabyte	GA-622
	Gigabyte	GA-660 Plus
	Gigabyte	GA-GF2560
	Gigabyte	GA-GF2000
	Gigabyte	GA-GF1280
	Gigabyte	GV-GF2010D
	Gigabyte	GA-GF3000D
	Gigabyte	GV-GF1280-32E
	Gigabyte	GV-GF1280T-32P
	Gigabyte	GV-GF3200TF
	Gigabyte	GV-GF3500TF-GH
	ELSA	Gladiac Ultra
	ELSA	Gladiac 517
	ELSA	Gladiac 517vivo
	ELSA	Gladiac 525 A128
	Leadtek	W inFast A170 TH
	Leadtek	W inFast A250 TO
	Leadtek	W inFast A250 Ultra

Figure 1-1. 4X AGP Card

To be continued...

Hardware Installation

Figure 1-2. 4X AGP Card

Graphics Chip	Maker	Model Name
ATi	Gigabyte	GV-AR64DL-T-SI
	Gigabyte	GV-AR64S-H
	Gigabyte	GV-AP64D
	Gigabyte	GV-AP64DH
	Gigabyte	GV-AP128DG-H
	Gigabyte	GV-AF128D-GH
SiS	Prolink	SiS315 64MB
Savage	ASUS	V3500

Figure 2. 8X AGP Card

Graphics Chip	Maker	Model Name
Nvidia	Gigabyte	GV-N57L128D
	Gigabyte	G V-N59X128D
	ASUS	V9180TD
	ASUS	V9480-TVD
	ASUS	V9520
	MSI	MX440-VTD8X MS-8888
	MSI	Ti4600-TD-8X
	Leadtek	W inFast A280LE TD
	Leadtek	W inFast A310 TD
	Albatron	NVIDIA 5950
ATi	Gigabyte	GV-R9700 Pro
	Gigabyte	GV-R9700
	Gigabyte	GV-R9500
	Gigabyte	GV-R9200C3
	Gigabyte	G V-R98P128D
	Gigabyte	GV-R92P128VH
SiS	Triplex	Xabre Pro
	Power Color	Xabre 600 Pro

Figure 3. PCI Express x16 Card

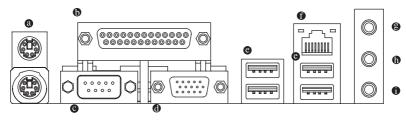
Graphics Chip	Maker	Model Name
Nvidia	Gigabyte	GV-NX53128D
	Gigabyte	GV-NX57128D
	Gigabyte	GV-NX59128D
	Gigabyte	GV-NX62128D
	Gigabyte	GV-NX66256D
	Gigabyte	GV-NX66T128VP
	Gigabyte	G V-NX66T128D
	Gigabyte	GV-NX68T256DH
	Gigabyte	GV-NX55128DP
	Gigabyte	GV-NX68U256D
	Gigabyte	GV-NX62TC256D
	ASUS	EN6600/TD/128

To be continued...

Figure 3. PCI Express x16 Card

Graphics Chip	Maker	Model Name
ATi	Gigabyte	GV-RX30S128D
	Gigabyte	GV-RX60P128D
	Gigabyte	GV-RX60X128V
	Gigabyte	GV-RX70128D
	Gigabyte	GV-RX70P128D
	Gigabyte	GV-RX80T256V
	Gigabyte	GV-RX80L256V
	Gigabyte	G V-RX80256D
	ASUS	AX800XT
	ASUS	AX700PRO
	MSI	RX600 XT-TD128

1-6 I/O Back Panel Introduction



PS/2 Keyboard and PS/2 Mouse Connector

To install a PS/2 port keyboard and mouse, plug the mouse to the upper port (green) and the keyboard o the lower port (purple).

Parallel Port

The parallel port allows connection of a printer, scanner and other peripheral devices.

• COM 1 (Serial Port)

Connects to serial-based mouse or data processing devices.

VGA Port

Monitor can be connected to VGA port.

O USB port

Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker...etc. have a standard USB interface. Also make sure your OS supports USB controller. If your OS does not support USB controller, please contact OS vendor for possible patch or driver upgrade. For more information please contact your OS or device(s) vendors.

LAN Port

The provided Internet connection is fast Ethernet, providing data transfer speeds of 10/100Mbps.

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The provided Internet connection is Gigabit Ethernet, providing data transfer speeds of 10/100/

1000Mbps. ④

Line In

Devices like CD-ROM, walkman etc. can be connected to Line In jack.

Line Out

Connect the stereo speakers, earphone or front surround speakers to this connector.

MIC In

NOTE

Microphone can be connected to MIC In jack.

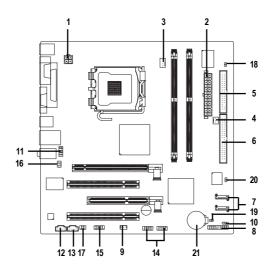
) You can use audio software to configure 2-/4-/6- channel audio functioning.

Only for GA-8I915ME-GV.
 Only for GA-8I915ME-GL.
 Only for GA-8I915ME-C.

④ Only for GA-8I915ME-G.

GA-8I915ME Series Motherboard

1-7 Connectors Introduction



1)	ATX_12V	11)	F_AUDIO
2)	ATX (Power Connector)	12)	CD_IN
3)	CPU_FAN	13)	AUX_IN
4)	SYS_FAN	14)	F_USB1 / F_USB2
5)	FDD	15)	COM2
6)	IDE	16)	SUR_CEN
7)	SATA0 / SATA2	17)	SPIDF_IO
8)	F_PANEL	18)	CI
9)	WOL	- 19)	CLR_CMOS
10)	PWR_LED	20)	BIOS_WP
		21)	BAT

1/2) ATX_12V/ATX (Power Connector)

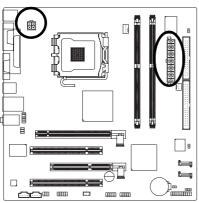
With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard. Before connecting the power connector, please make sure that all components and devices are properly installed. Align the power connector with its proper location on the motherboard and connect tightly.

The ATX_12V power connector mainly supplies power to the CPU. If the ATX_12V power connector is not connected, the system will not start.

Caution!

Please use a power supply that is able to handle the system voltage requirements. It is recommended that a power supply that can withstand high power consumption be used (300W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable system or a system that is unable to start.

If you use a 24-pin ATX power supply, please remove the small cover on the power connector on the motherboard before plugging in the power cord ; Otherwise, please do not remove it.



3	•		
1	0		

13

0

24

4

2

Pin No.	Definition
1	GND
2	GND
3	+12V
4	+12V

		Pin No.	Definition
	1	1	3.3V
F		2	3.3V
T		3	GND
		4	+5V
		5	GND
묶		6	+5V
H		7	GND
		8	Power Good
Ŀ		9	5V SB(stand by +5V)
빋		10	+12V
Ŀ		11	+12V
		12	3.3V(Only for 24pins ATX)
	12	13	3.3V
		14	-12V
		15	GND
		16	PS_ON(soft On/Off)
		17	GND
		18	GND
		19	GND
		20	-5V
		21	+5V
		22	+5V
		23	+5V
		24	GND

3/4) CPU FAN / SYS FAN (Cooler Fan Power Connector)

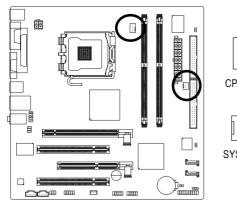
The cooler fan power connector supplies a +12V power voltage via a 3-pin/4-pin (only for CPU FAN) power connector and possesses a foolproof connection design.

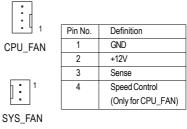
Most coolers are designed with color-coded power connector wires. A red power connector wire indicates a positive connection and requires a +12V power voltage. The black connector wire is the ground wire (GND).

Please remember to connect the power to the cooler to prevent system overheating and failure.

Caution!

Please remember to connect the power to the CPU fan to prevent CPU overheating and failure.



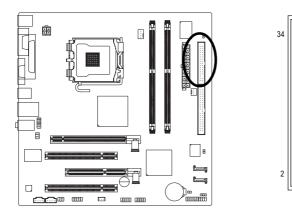


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в

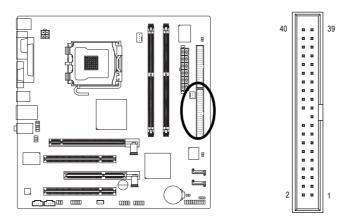
5) FDD (Floppy Connector)

The FDD connector is used to connect the FDD cable while the other end of the cable connects to the FDD drive. The types of FDD drives supported are: 360KB, 720KB, 1.2MB, 1.44MB and 2.88MB. Please connect the red power connector wire to the pin1 position.



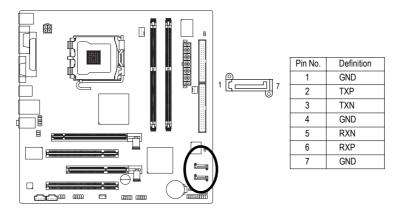
6) IDE (IDE Connector)

An IDE device connects to the computer via an IDE connector. One IDE connector can connect to one IDE cable, and the single IDE cable can then connect to two IDE devices (hard drive or optical drive). If you wish to connect two IDE devices, please set the jumper on one IDE device as Master and the other as Slave (for information on settings, please refer to the instructions located on the IDE device).



7) SATA0/SATA2 (Serial ATA Connector, Controlled by ICH6)

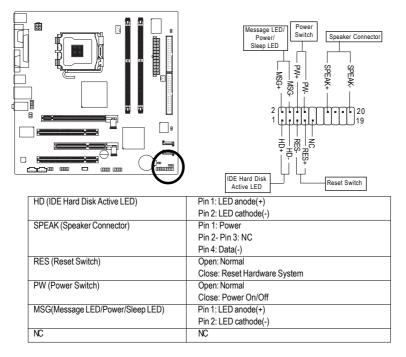
Serial ATA can provide up to 150MB/s transfer rate. Please refer to the BIOS setting for the Serial ATA and install the proper driver in order to work properly.



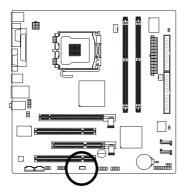
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8) F_PANEL (Front Panel Jumper)

Please connect the power LED, PC speaker, reset switch and power switch etc of your chassis frontpanel to the F_PANEL connector according to the pin assignment below.



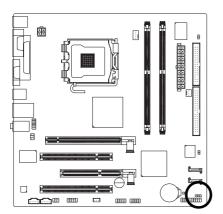
9) WOL (Wake On LAN)



Pin No.	Definition
1	+5V SB
2	GND
3	Signal

10) PWR_LED

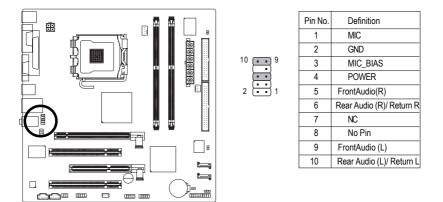
PWR_LED is connect with the system power indicator to indicate whether the system is on/off. It will blink when the system enters suspend mode.



	Pin No.	Definition
	1	MPD+
1 🚥	2	MPD-
	3	MPD-

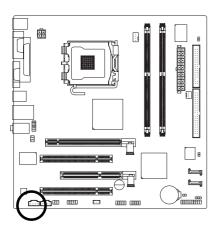
11) F_AUDIO (Front Audio Connector)

Please make sure the pin assignments on the cable are the same as the pin assignments of the F_AUDIO connector on the motherboard. To find out if the chassis you are buying support front audio panel connector, please contact your dealer. If you want to use "Front Audio" connector, you must remove the jumpers on pin 5-6, 9-10.



12) CD_IN (CD IN)

Connect CD-ROM or DVD-ROM audio out to the connector.

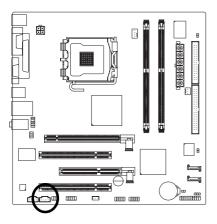


Γ	Pin No.	Definition
	1	CD-L
	2	GND
	3	GND
ſ	4	CD-R

. . . .

13) AUX_IN (AUX In Connector)

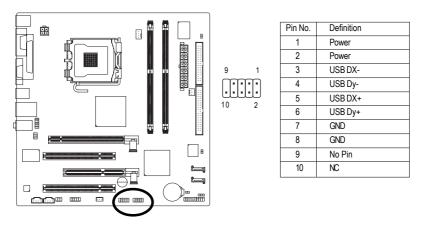
Connect other device (such as PCI TV Tuner audio out) to the connector.



	Pin No.	Definition
	1	AUX-L
• • • • 1	2	GND
	3	GND
	4	AUX-R

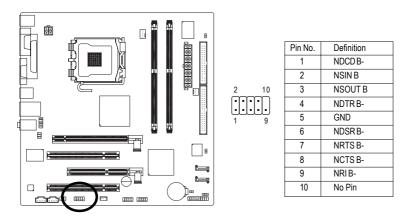
14) F_USB1 / F_USB2 (Front USB Connector)

Be careful with the polarity of the front USB connector. Check the pin assignment carefully while you connect the front USB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional front USB cable, please contact your local dealer.



15) COM2 (Serial Port Connector)

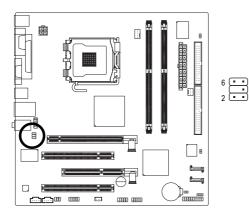
Be careful with the polarity of the COM connector. Check the pin assignment carefully while you connect the COM cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional COM cable, please contact your local dealer.



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16) SUR_CEN

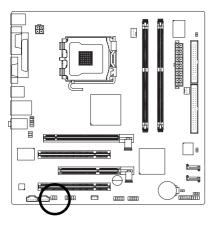
Please contact your nearest dealer for optional SUR_CEN cable.



Pin No.	Definition
1	SUR OUTL
2	SUROUTR
3	GND
4	No Pin
5	CENTER_OUT
6	BASS_OUT

17) SPDIF_IO (SPDIF In/ Out)

The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder. Use this feature only when your stereo system has digital input function. Use SPDIF IN feature only when your device has digital output function. Be careful with the polarity of the SPDIF_IO connector. Check the pin assignment carefully while you connect the SPDIF_IO cable. Incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional SPDIF_IO cable, please contact your local dealer.



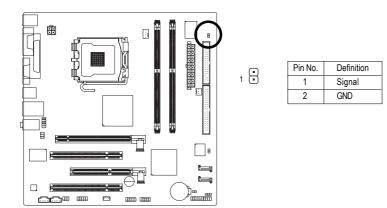
2		6	
$\left[\right]$	F	\Box	
Ŀ	Ŀ	Ŀ	
1		5	

5

Pin No.	Definition
1	Power
2	No Pin
3	SPDIF
4	SPDIFI
5	GND
6	GND

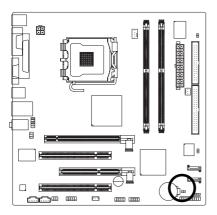
18) CI (Chassis Intrusion, Case Open)

This 2-pin connector allows your system to detect if the chassis cover is removed. You can check the "Case Opened" status in BIOS Setup.



19) CLR_CMOS (Clear CMOS)

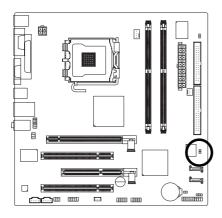
You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short 1-2 pin. Default doesn't include the "Shunter" to prevent from improper use this jumper.



- •• 1 Open: Normal
- Short :Clear CMOS

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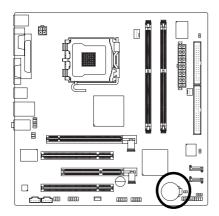
20) BIOS_WP (BIOS Write Protect)



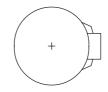
• 1	.
• 1	Open: Normal

81 Short :Write Protect

21) BAT(Battery)



- Danger of explosion if battery is incorrectly replaced.
- Replace only with the same or equivalent type recommended by the manufacturer.
- Dispose of used batteries according to the manufacturer's instructions.



If you want to erase CMOS ...

- 1. Turn OFF the computer and unplug the power cord.
- Take out the battery gently and put it aside for about 10 minutes (Or you can use a metal object to connect the positive and negative pins in the battery holder to make them short for one minute).
- 3.Re-install the battery.
- 4.Plug the power cord and turn ON the computer.

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Chapter 2 BIOS Setup

BIOS (Basic Input and Output System) includes a CMOS SETUP utility which allows user to configure required settings or to activate certain system features.

The CMOS SETUP saves the configuration in the CMOS SRAM of the motherboard.

When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS SRAM.

When the power is turned on, pushing the button during the BIOS POST (Power-On Self Test) will take you to the CMOS SETUP screen. You can enter the BIOS setup screen by pressing "Ctrl + F1". When setting up BIOS for the first time, it is recommended that you save the current BIOS to a disk in the event that BIOS needs to be reset to its original settings. If you wish to upgrade to a new BIOS, either

Gigabyte's Q-Flash or @BIOS utility can be used.

Q-Flash allows the user to quickly and easily update or backup BIOS without entering the operating system. @BIOS is a Windows-based utility that does not require users to boot to DOS before upgrading BIOS but directly download and update BIOS from the Internet.

$<\!\!\uparrow\!\!>\!\!<\!\!\downarrow\!\!>\!\!<\!\!\leftrightarrow\!\!>\!\!<\!\!\rightarrow\!\!>$	Move to select item
<enter></enter>	Select Item
<esc></esc>	Main Menu - Quit and not save changes into CMOS Status Page Setup Menu
	and Option Page Setup Menu - Exit current page and return to Main Menu
<page up=""></page>	Increase the numeric value or make changes
<page down=""></page>	Decrease the numeric value or make changes
<f1></f1>	General help, only for Status Page Setup Menu and Option Page Setup Menu
<f2></f2>	Item Help
<f5></f5>	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu
<f6></f6>	Load the file-safe default CMOS value from BIOS default table
<f7></f7>	Load the Optimized Defaults
<f8></f8>	Q-Flash utility
<f9></f9>	System Information
<f10></f10>	Save all the CMOS changes, only for Main Menu

CONTROL KEYS

Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

Status Page Setup Menu / Option Page Setup Menu

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc>.



The BIOS Setup menus described in this chapter are for reference only and may differ from the exact settings for your motherboard.

The Main Menu

(For example: GA-8I915ME-GV / BIOS Ver.: F2)

Once you enter Award BIOS CMOS Setup Utility, the Main Menu (as figure below) will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software					
•	Standard CMOS Features	Load Fail-Safe Defaults			
•	Advanced BIOS Features	Load Optimized Defaults			
•	Integrated Peripherals	Set Supervisor Password			
•	Power Management Setup	Set User Password			
•	PnP/PCI Configurations	Save & Exit Setup			
•	PC Health Status	Exit Without Saving			
•	Frequency/Voltage Control				
ESC: Quit		↑↓→←: Select Item			
F8: Q-Flash		F10: Save & Exit Setup			
Time, Date, Hard Disk Type					



If you can't find the setting you want, please press "Ctrl+F1" to search the advanced option hidden.

Please Load Optimized Defaults in the BIOS when somehow the system works not stable as usual. This action makes the system reset to the default for stability.

Standard CMOS Features

This setup page includes all the items in standard compatible BIOS.

Advanced BIOS Features

This setup page includes all the items of Award special enhanced features.

Integrated Peripherals

This setup page includes all onboard peripherals.

Power Management Setup

This setup page includes all the items of Green function features.

PnP/PCI Configuration

This setup page includes all the configurations of PCI & PnP ISA resources.

PC Health Status

This setup page is the System auto detect Temperature, voltage, fan, speed.

Frequency / Voltage Control

This setup page is control CPU clock and frequency ratio.

Load Fail-Safe Defaults

Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration.

Load Optimized Defaults

Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration.

 Set Supervisor Password Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup.
 Set User Password

Change, set, or disable password. It allows you to limit access to the system.

Save & Exit Setup

Save CMOS value settings to CMOS and exit setup.

Exit Without Saving

Abandon all CMOS value changes and exit setup.

2-1 Standard CMOS Features

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features						
	Date (mm:dd:yy)	Mon, Mar 28 2005		Item Help		
	Time (hh:mm:ss)	22:31:24	Î	Menu Level▶		
	IDE Channel 0 Master	[None]	L	Change the day, month,		
	IDE Channel 0 Slave	[None]		year		
	IDE Channel 2 Master	[None]				
	IDE Channel 2 Slave	[None]		<week></week>		
				Sun. to Sat.		
	Drive A	[1.44M, 3.5"]				
	Drive B	[None]		<month></month>		
	Floppy 3 Mode Suport	[Disabled]		Jan. to Dec.		
	Holt On [All, But Keyboard			<day></day>		
				1 to 31 (or maximum		
	Base Memory			allowed in the month)		
	Extended Memory	127M				
				<year></year>		
				1999 to 2098		
			ESC: 7: Oj	Exit F1: General Help ptimized Defaults		

· Date

The date format is <week>, <month>, <day>, <year>.

- >> Week The week, from Sun to Sat, determined by the BIOS and is display only
- ✤ Month The month, Jan. Through Dec.
- ▶ Day The day, from 1 to 31 (or the maximum allowed in the month)

ං Time

The times format in <hour> <minute> <second>. The time is calculated base on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00.

☞ IDE Channel 0~2 Master, Slave

▶ IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection.

- IDE Channel 0 ~2 Master(Slave) IDE Device Setup. You can use one of three methods: Auto Allows BIOS to automatically detect IDE devices during POST(default)
 - None Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up.
 - Manual User can manually input the correct settings
- Access Mode Use this to set the access mode for the hard drive. The four options are: CHS/LBA/Large/Auto(default:Auto)

Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information.

- ➤ Cylinder Number of cylinders
- Head Number of heads
- ► Precomp Write precomp
- ▶ Landing Zone Landing zone
- ➡ Sector Number of sectors

If a hard disk has not been installed, select NONE and press <Enter>.

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Drive A / Drive B

The category identifies the types of floppy disk drive A or drive B that has been installed in the computer.

- ► None No floppy drive installed
- ▶ 360K, 5.25" 5.25 inch PC-type standard drive; 360K byte capacity.
- ▶ 1.2M, 5.25" 5.25 inch AT-type high-density drive; 1.2M byte capacity (3.5 inch when 3 Mode is Enabled).
- ▶ 720K, 3.5"
 3.5 inch double-sided drive: 720K byte capacity
- ▶ 1.44M, 3.5" 3.5 inch double-sided drive; 1.44M byte capacity.
- ▶ 2.88M, 3.5" 3.5 inch double-sided drive; 2.88M byte capacity.

∽ Floppy 3 Mode Support (for Japan Area)

- Disabled Normal Floppy Drive. (Default value)
- Drive A Drive A is 3 mode Floppy Drive.
- Drive B Drive B is 3 mode Floppy Drive.
- ➡ Both Drive A & B are 3 mode Floppy Drives.

ு Halt on

The category determines whether the computer will stop if an error is detected during power up.

	······································
➡ No Errors	The system boot will not stop for any error that may be detected and you
	will be prompted.
All Errors	Whenever the BIOS detects a non-fatal error the system will be stopped.
➡ All, But Keyboard	The system boot will not stop for a keyboard error; it will stop for all other
	errors. (Default value)
➡ All, But Diskette	The system boot will not stop for a disk error; it will stop for all other errors.
➡ All, But Disk/Key	The system boot will not stop for a keyboard or disk error; it will stop for all
	other errors.

Memory

The category is display-only which is determined by POST (Power On Self Test) of the BIOS.

The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.

The value of the base memory is typically 512K for systems with 512K memory installed on the motherboard, or 640K for systems with 640K or more memory installed on the motherboard.

>> Extended Memory

The BIOS determines how much extended memory is present during the POST. This is the amount of memory located above 1 MB in the CPU's memory address map.

2-2 Advanced BIOS Features

	CMOS Setup	Utility-Copyright Advanced BI	C) 1984-2005 Award OS Features	d Softwar	re
#	Hard Disk Boot Priority First Boot Device Second Boot Device Password Check CPU Hyper-Threading Limit CPUID Max. to 3 Init Display First (^{Note3}) CPU Enhanced Halt (CLE) (^{Note3}) CPU Enhanced Halt (CLE) (^{Note3}) CPU EIST Function (^{Note3}) On-Chip Frame Buffer Size	Flop [USB [Harc [Setu [Enal [PC1] [Enal [Enal	-FDD] Disk] p] eled] bled] eled] eled] eled]		Item Help Menu Level) Select Hard Disk Boot Device Priority
ţ∫		+/-/PU/PD: Value F6: Fail-Save Defat	F10: Save lt	ESC: E F7: Opt	xit F1: General Help timized Defaults

" # " System will detect automatically and show up when you install the Intel® Pentium® 4 processor with HT Technology.

Hard Disk Boot Priority

Select boot sequence for onboard(or add-on cards) SCSI, RAID, etc.

Use $<\uparrow>$ or $<\downarrow>$ to select a device, then press<+> to move it up, or <-> to move it down the list. Press <ESC> to exit this menu.

First / Second / Third Boot Device

➡ Floppy Select your boot device priority by Floppy. ▶ LS120 Select your boot device priority by LS120. Hard Disk Select your boot device priority by Hard Disk. ➡ CDROM Select your boot device priority by CDROM. ▶ 7IP Select your boot device priority by ZIP. Select your boot device priority by USB-FDD. ▶ USB-FDD ▶ USB-ZIP Select your boot device priority by USB-ZIP. ▶ USB-CDROM Select your boot device priority by USB-CDROM. Select your boot device priority by USB-HDD. ▶ USB-HDD ▶ LAN Select your boot device priority by LAN. ▶ Disabled Disabled this function

☞ Password Check

- Setup The system will boot but will not access to Setup page if the correct password is not entered at the prompt. (Default value)
- System The system will not boot and will not access to Setup page if the correct password is not entered at the prompt.

(Note3) This item will show up when you install a processor which supports this function.

→ CPU Hyper-Threading

Enabled Enables CPU Hyper Threading Feature. Please note that this feature is only working for operating system with multi processors mode supported. (Default value)
 Disabled Disables CPU Hyper Threading.

∽ Limit CPUID Max. to 3

- ▶ Enabled Limit CPUID Maximum value to 3 when use older OS like NT4.
- Disabled Disables CPUID Limit for windows XP.(Default value)

☞ Init Display First (Note1)

Select the first initation of the monitor display from different type of VGA card.

- PCI Set Init display first to PCI. (Default value)
- Onboard Set Init display first to Onboard.
- ➡ GEAR Set Init display first to GEAR.
- ➡ PEG2 ^(Note2) Set Init display first to PCI Express.

∽ No-Execute Memory Protect^(Note3)

Enabled Enables No-Execute Memory Protect function. (Default value)
 Disabled Disables No-Execute Memory Protect function.

∽ CPU Enhanced Halt (C1E) ^(Note3)

- ▶ Enabled Enables CPU Enhanced Halt (C1E) function. (Default value)
- ➡ Disabled Disables CPU Enhanced Halt (C1E) function.

CPU Thermal Monitor 2 (TM2) (Note3)

- ▶ Enabled Enable CPU Thermal Monitor 2 (TM2) function. (Default value)
- ➡ Disabled Disable CPU Thermal Monitor 2 (TM2) function.

∽ CPU EIST Function (Note3)

- ➡ Enabled Enable CPU EIST function. (Default value)
- Disabled Disable EIST function.

∽ On-Chip Frame Buffer Size

- ▶ 1MB Set On-chip frame buffer size to 1MB.
- ▶ 4MB Set On-chip frame buffer size to 4MB.(Default value)
- ▶ 8MB Set On-chip frame buffer size to 8MB.
- ▶ 16MB Set On-chip frame buffer size to 16MB.
- ➡ 32MB Set On-chip frame buffer size to 32MB.
- (Note1) BIOS will automatically disable onboard VGA once install AGP or PCI Express graphic card. If you want Multi-Display supports, please select "Onboard" as default in BIOS, the onboard VGA will be the primary VGA card while display.
- (Note2) GA-8I915ME-GV / GA-8I915ME-GL / GA-8I915ME-C supports transfer up to PCI Express x4 mode; BIOS item will display "PEG2".
 - GA-8I915ME-G supports transfer up to PCI Express x16 mode; BIOS item will display "PEG".
- (Note3) This item will show up when you install a processor which supports this function.

Please refer to the "Graphics Card Support List" for G.E.A.R slot on page 17 ~ page 19. G.E.A.R supporting transfer up to 33MHz and compatible with AGP 8X slot.

2-3 **Integrated Peripherals**

CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Integrated Peripherals				
On-Chip Primary PCI IDE On-Chip SATA Mode × PATA IDE Set to SATA Port 0/2 Set to USB Controller USB Z.0 Controller USB Keyboard Support USB Mouse Support AC97 Audio Onboard LAN Boot ROM Onboard Serial Port 1 Onboard Parallel Port Parallel Port Parallel Port SecP Mode Use DMA	[Enabled] [Enhanced] Ch.0 Master/Slave Ch.2 Master/Slave [Enabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] [Jisabled]		Item Help Menu Level ▶	
↑↓→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F10: Save F6: Fail-Save Default	ESC: F7: Oj	Exit F1: General Help otimized Defaults	

○ On-Chip Primary PCI IDE

Enabled	Enable onboard 1st channel IDE port. (Default value)
Disabled	Disable onboard 1st channel IDE port.

∽ On-Chip SATA Mode

➡ Disabled	Disable this function.
► Auto	BIOS will auto detect.
✤ Combined	Set On-Chip SATA mode to Combined, you can use up to 4 HDDs on the motherboard; 2 for SATA and the other for PATA IDE.
Enhanced	Set On-Chip SATA mode to Enhanced, the motherboard allows up to 6 HDDs to use.(Default value)
Non-Combined	Set On-Chip SATA mode to Non-Combined, SATA will be simulated to PATA mode.
PATA IDE Set to	

T

Ch.1 Master/Slave	Set PATA IDE to Ch. 1 Master/Slave. (Default value)
Ch.0 Master/Slave	Set PATA IDE to Ch. 0 Master/Slave.

∽ SATA Port 0/2 Set to

>> This value will auto make by the setting "On-Chip SATA Mode" and "PATA IDE Set to". If PATA IDE were set to Ch. 1 Master/Slave, this function will auto set to Ch. 0 Master/Slave.

→ USB Controller

➡ Enabled	Enable USB Controller. (Default value)
➡ Disabled	Disable USB Controller.

Disable this function if you are not using onboard USB 2.0 feature.

- ➡ Enabled Enable USB 2.0 Controller. (Default value)
- Disabled Disable USB 2.0 Controller.

GA-8I915ME Series Motherboard

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USB Keyboard Support

➡ Enabled	Enable USB Keyboard Support.
-----------	------------------------------

➡ Disabled Disable USB Keyboard Support. (Default value)

USB Mouse Support

	➡ Enabled	Enable USB Mouse Support.
	Disabled	Disable USB Mouse Support. (Default value)
Ċ	AC97 Audio	
	➡ Auto	Auto detect AC97 audio function. (Default value)

- ▶ Disabled
- Onboard H/W LAN

Enable Onboard H/W LAN function. (Default value) Disabled Disable this function

∽ Onboard LAN Boot ROM

This function decide whether to invoke the boot ROM of the onboard LAN chip.

Disable AC97 audio function.

- ➡ Enabled Enable this function.
- ➡ Disabled Disable this function. (Default value)

Onboard Serial Port 1

- ➤ Auto BIOS will automatically setup the port 1 address.
- ➡ 3F8/IRQ4 Enable onboard Serial port 1 and address is 3F8. (Default value)
- ▶ 2F8/IRQ3 Enable onboard Serial port 1 and address is 2F8.
- ➡ 3E8/IRQ4 Enable onboard Serial port 1 and address is 3E8.
- ▶ 2E8/IRQ3 Enable onboard Serial port 1 and address is 2E8.
- Disabled Disable onboard Serial port 1.

∽ Onboard Serial Port 2

- ✤ Auto BIOS will automatically setup the port 2 address.
- ➡ 3F8/IRQ4 Enable onboard Serial port 2 and address is 3F8.
- ▶ 2F8/IRQ3 Enable onboard Serial port 2 and address is 2F8. (Default value)
- ➡ 3E8/IRQ4 Enable onboard Serial port 2 and address is 3E8.
- ▶ 2E8/IRQ3 Enable onboard Serial port 2 and address is 2E8.
- Disabled Disable onboard Serial port 2.

Onboard Parallel port

- Disabled Disable onboard LPT port.
- ➡ 378/IRQ7 Enable onboard LPT port and address is 378/IRQ7. (Default value)
- ▶ 278/IRQ5 Enable onboard LPT port and address is 278/IRQ5.
- ➡ 3BC/IRQ7 Enable onboard LPT port and address is 3BC/IRQ7.

Parallel Port Mode

- ▶ SPP Using Parallel port as Standard Parallel Port. (Default value)
- ▶ EPP Using Parallel port as Enhanced Parallel Port.
- ➡ ECP Using Parallel port as Extended Capabilities Port.
- ▶ ECP+EPP Using Parallel port as ECP & EPP mode.

☞ ECP Mode Use DMA

- ➡ 3 Set ECP Mode Use DMA to 3. (Default value)
- ▶ 1 Set ECP Mode Use DMA to 1.

2-4 Power Management Setup

CMOS Setuj	p Utility-Copyright (C) 1984-2005 Award Power Management Setup	Software
ACPI Suspend Type Soft-Off by PWR-BTTN PME Event Wake Up ModemRingOn/WakeOnLan Resume by Alarm x Date (of Month) Alarm Time (hh:mm:ss) Alarm Power On By Mouse Power On By Keyboard x KB Power ON Password AC Back Function	[S1(POS)] [Instant-off] [Enabled] [Enabled] [Disabled] Everyday 0 · 0 · 0 [Disabled] [Disabled] Enter [Soft-Off]	Item Help Menu Level⊁
↑↓→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F10: Save F6: Fail-Save Default	ESC: Exit F1: General Help F7: Optimized Defaults

☞ ACPI Suspend Type

- S1(POS) Set ACPI suspend type to S1/POS(Power On Suspend). (Default value)
- S3(STR) Set ACPI suspend type to S3/STR(Suspend To RAM).

∽ Soft-off by PWR-BTTN

▶ Instant-off Press power button then Power off instantly. (Default value)

➡ Delay 4 Sec. Press power button 4 sec. to Power off. Enter suspend if button is pressed less than 4 sec.

☞ PME Event Wake Up

- Disabled Disable this function.
- ➡ Enabled Enable PME Event Wake up. (Default value)

∽ ModemRingOn/WakeOnLan

- >> Disabled Disable ModemRingOn/WakeOnLan function.
- >> Enabled Enable ModemRingOn/WakeOnLan function. (Default value)

∽ Resume by Alarm

You can set "Resume by Alarm" item to enabled and key in Data/time to power on system.

- Disabled Disable this function. (Default value)
- >> Enabled Enable alarm function to POWER ON system.

If RTC Alarm Lead To Power On is Enabled.

- Date (of Month) Alarm : Everyday, 1~31
- ➡ Time (hh: mm: ss) Alarm : (0~23) : (0~59) : (0~59)

☞ Power On By Mouse

- Disabled Disable this function. (Default value)
- >> Double Click Double click on PS/2 mouse left button to power on the system.

∽ Power On By Keyboard

- ▶ Password Enter from 1 to 5 characters to set the Keyboard Power On Password.
- Disabled Disabled this function. (Default value)
- ▹ Keyboard 98 If your keyboard have "POWER Key" button, you can press the key to power on the system.

C KB Power ON Password

When "Power On by Keyboard" set at Password, you can set the password here.

Enter Input password (from 1 to 5 characters) and press Enter to set the Keyboard Power On password.

∽ AC Back Function

- ▶ Soft-Off When AC-power back to the system, the system will be in "Off" state. (Default value)
 ▶ Full-On When AC-power back to the system, the system always in "On" state.
- Memory When AC-power back to the system, the system will return to the Last state before AC-power off.

2-5 PnP/PCI Configurations

CMOS Se	tup Utility-Copyright (C) 1 PnP/PCI Configu	ware
PCI 1 IRQ Assignment	[Auto]	Item Help
PCI 2 IRQ Assignment	[Auto]	Menu Level▶
PCI 3 IRQ Assignment	[Auto]	
↑↓→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F6: Fail-Save Default	C: Exit F1: General Help Optimized Defaults

☞ PCI 1 IRQ Assignment

▶ Auto
▶ 3,4,5,7,9,10,11,12,14,15

✓ PCI 2 IRQ Assignment → Auto → 3,4,5,7,9,10,11,12,14,15

Auto assign IRQ to PCI 1. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1.

Auto assign IRQ to PCI 2. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 2.

∽ PCI 3 IRQ Assignment → Auto

▶ 3,4,5,7,9,10,11,12,14,15

Auto assign IRQ to PCI 2. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 3.

2-6 PC Health Status

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PC Health Status				
Reset Case Open Status Case Opened Vcore DDR25V +3,3V +12V Current CPU Temperature Current CPU Temperature Current SYSTEM FAN Speed CPU Warning Temperature CPU FAN Fail Warning SYSTEM FAN Fail Warning CPU Smart FAN Control CPU Smart FAN Mode	[Disabled] Yes OK OK OK OK OK OK OK Disabled] [Disabled] [Disabled] [Disabled] [Auto]	Item Help Menu Level		
T↓→←: Move Enter: Select F5: Previous Values		SC: Exit F1: General Help 7: Optimized Defaults		

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Constant Case Open Status

- ➡ Disabled Don't reset case open status. (Default value)
- ➡ Enabled Clear case open status at next boot.

∽ Case Opened

If the case is closed, "Case Opened" will show "No".

If the case have been opened, "Case Opened" will show "Yes".

If you want to reset "Case Opened" value, set "Reset Case Open Status" to "Enabled" and save CMOS, your computer will restart.

∽ Current Voltage(V) Vcore / DDR25V / +3.3V / +12V

>> Detect system's voltage status automatically.

∽ Current CPU Temperature

▶ Detect CPU temperature automatically.

∽ Current CPU/SYSTEM FAN Speed (RPM)

▶ Detect CPU/SYSTEM Fan speed status automatically.

∽ CPU Warning Temperature

- ▶ 60°C / 140°F Monitor CPU temperature at 60°C / 140°F.
- ▶ 70°C / 158°F Monitor CPU temperature at 70°C / 158°F.
- ▶ 80°C / 176°F Monitor CPU temperature at 80°C / 176°F.
- ▶ 90°C / 194°F Monitor CPU temperature at 90°C / 194°F.
- Disabled Disable this function. (Default value)

∽ CPU/SYSEM FAN Fail Warning

Disabled Fan warning function disable. (Default value)

► Enabled Fan warning function enable.

☞ CPU Smart FAN Control

- Disabled Disable this function.
- Enabled When this function is enabled, CPU fan will run at different speed depending on CPU temperature. Users can adjust the fan speed with Easy Tune based on their requirements. (Default Value)

☞ CPU Smart FAN Mode

This option is available only when CPU Smart FAN Control is enabled.

- ✤ Auto BIOS autodetects the type of CPU fan you installed and sets the optimal CPU Smart FAN control mode for it. (Default Value)
- ✤ Voltage Set to Voltage when you use a CPU fan with a 3-pin fan power cable.
- ▶ PWM Set to PWM when you use a CPU fan with a 4-pin fan power cable.

Note: In fact, the Voltage option can be used for CPU fans with 3-pin or 4-pin power cables. However, some 4-pin CPU fan power cables are not designed following Intel 4-Wire fans PWM control specifications. With such CPU fans, selecting PWM will not effectively reduce the fan speed.

2-7 Frequency/Voltage Control

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Frequency/Voltage Control					
CPU Clock Ratio [16X] Item Help					
Memory Frequency for	[Auto]	Menu Level▶			
Memory Frequency (Mhz)					
		·			
		·			
		·			
		·			
		·			
		·			
↑↓→←: Move Enter: Select	+/-/PU/PD: Value F10: Save	ESC: Exit F1: General Help			
F5: Previous Values	F6: Fail-Save Default	F7: Optimized Defaults			



Incorrect using these features may cause your system broken. For power end-user use only.

☞ CPU Clock Ratio (Note)

This setup option will automatically assign by CPU detection.

The option will display "Locked" and read only if the CPU ratio is not changeable.

∽ Memory Frequency for

Wrong frequency may make system can't boot, clear CMOS to overcome wrong frequency issue. for FSB(Front Side Bus) frequency=533MHz,

- ▶ 2.5 Memory Frequency = Host clock X 2.5.
- ▶ 3 Memory Frequency = Host clock X 3.
- ▶ 4 Memory Frequency = Host clock X 4.
- ➡ Auto Set Memory frequency by DRAM SPD data. (Default value)

for FSB(Front Side Bus) frequency=800MHz,

- ▶ 1.66 Memory Frequency = Host clock X 1.66.
- ▶ 2.00 Memory Frequency = Host clock X 2.00.
- ▶ 2.66 Memory Frequency = Host clock X 2.66.
- >> Auto Set Memory frequency by DRAM SPD data. (Default value)

∽ Memory Frequency (Mhz)

The values depend on "System Memory Multiplier" item.

(Note) This item will show up when you install a processor which supports this function.

2-8 Load Fail-Safe Defaults

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software				
Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Ma PnP/PCI C Load F PC Health Sumus Frequency/Voltage Control	Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password			
ESC: Quit F8: O-Flash	↑↓→←: Select Item F10: Save & Exit Setup			
Load Fail-Safe Defaults				

Fail-Safe defaults contain the most appropriate values of the system parameters that allow minimum system performance.

2-9 Load Optimized Defaults

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software					
Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Mat PnP/PCI C Load Optimized PC Health sources Frequency/Voltage Control	Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password				
ESC: Quit F8: O-Flash	↑↓→←: Select Item F10: Save & Exit Setup				
Load Optimized Defaults					

Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects.

2-10 Set Supervisor/User Password

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software				
Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Comment PnP/PCI C Enter Password: PC Health Frequency/Voltage Control	Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Cat How Decoursed			
ESC: Quit F8: O-Flash	↑↓→←: Select Item			
F8: Q-Flash F10: Save & Exit Setup Change/Set/Disable Password				

Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects.

When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

Type the password, up to eight characters, and press <Enter>. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a password.

To disable password, just press <Enter> when you are prompted to enter password. A message

"PASSWORD DISABLED" will appear to confirm the password being disabled. Once the password is disabled, the system will boot and you can enter Setup freely.

The BIOS Setup program allows you to specify two separate passwords:

SUPERVISOR PASSWORD and a USER PASSWORD. When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items.

If you select "System" at "Password Check" in Advance BIOS Features Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu.

If you select "Setup" at "Password Check" in Advance BIOS Features Menu, you will be prompted only when you try to enter Setup.

2-11 Save & Exit Setup

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software						
	Standard CMOS Features	Load Fail-Safe Defaults				
	Advanced BIOS Features	Load Optimized Defaults				
▶	Integrated Peripherals	Set Supervisor Password				
	Power Management Setup	Set User Password				
▶	PnP/PCI C	0 0. P				
▶	PC Health Save to CMOS an	ıd EXIT (Y/N)? Y				
▶	Frequency,					
E	SC: Quit	↑↓→←: Select Item				
F F	8: Q-Flash	F10: Save & Exit Setup				
	Save & Exit Setup					

Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS. Type "N" will return to Setup Utility.

2-12 Exit Without Saving

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software				
Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Ma PnP/PCI C Quit Without S PC Health Startus Frequency/Voltage Control	Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password			
ESC: Quit F8: Q-Flash Abandor	↑↓→←: Select Item F10: Save & Exit Setup n all Data			

Type "Y" will quit the Setup Utility without saving to RTC CMOS. Type "N" will return to Setup Utility.

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Chapter 3 Install Drivers



Pictures below are shown in Windows XP.

Insert the driver CD-title that came with your motherboard into your CD-ROM drive, the driver CD-title will auto start and show the installation guide. If not, please double click the CD-ROM device icon in "My computer", and execute the Run.exe.

3-1 Install Chipset Drivers

"Xpress Install " is now analyizing your computer....99%

After insert the driver CD, "Xpress Install" will scan automatically the system and then list all the drivers that recommended to install. Please pick the item that you want and press "install" followed the item; or you can press "Xpress Install" to install all items defaulted.

oftware Applications	XPress Install		
Driver CD	INF Update Utility		Install
ntormation	Size 2.5MB	Version 6.2.1.1001	
lardware	This utility installs INF files that inform the operation	ng system how to properly configure the chipset for specific functionality such a	a PCI-Express or USB interface.
nformation	🗾 Intel® Graphics Media Accelerator Driver (Win	2K/XP)	Install
Contact Us	Size 16.2MB	Version 14.9.0.3943	
Lontact Us	Installs drivers for the integrated graphics control	oller of Intel® chipsets. This is not to be used if the system has a third party graph	ics card.
	Realtek Audio Chipset Driver		Install
	Size 52.2MD	Version 5.10.0.5761	
	The Realtek Audio chipset driver provides suppo	rt for 7.1 channel audio	
	RealTek Gigabit LAN Driver		Install
	Size 6.6MB	Version 5.397.823.2001	
	Installs drivers for Realtek Gigabit LAN Driver		



Some device drivers will restart your system automatically. After restarting your system the "Xpress Install" will continue to install other drivers. System will reboot automatically after install the drivers, afterward you can install others application.



For USB2.0 driver support under Windows XP operating system, please use Windows Service Pack. After install Windows Service Pack, it will show AUTION a guestion mark "?" in "Universal Serial Bus controller" under "Device Manager". Please remove the question mark and restart the system (System will auto-detect the right USB2.0 driver).

3-2 Software Applications

This page displays all the tools that Gigabyte developed and some free software, you can choose anyone you want and press "install" to install them.

GIGAB		
Install Chipset Drivers	Software Applications Prese dot on the following applications lated below to install	
Software Applications		
Driver CD	GIGABYTE C.O.M. (Corporate Online Manager)	Install
Information	9z# 8.4M0	
Hardware Information	A web-based system management tool that allows client system hardware internation such as CPU and memory and graphics card controlled via a host.	and much more to be monitored or
Contact Us	EasyTune 5	Install
Contact Us	9ze 47M0	
	An easy-to-use Windows-based system enhancement utility allowing quick access to a variety of performance features.	
	DM Viewer	Install
	Size 1012.9KB	
	CMI Viewer provides a management tool for viewing motherboard hardware information.	
	Face-Wizard	Install
	Size 1.940	
	Face Witzerd provides utility for customizing BIOS boot up screen.	
	gaos	Install
	Size 1.0MB	
	agences provides utility for updating BICS through internet.	
	Acrobat Reader	Install
	Size 8.5MB	
	Utility for viewing or printing Adobe Portable Document Format (PDF) files.	
	Norton Internet Security(NIS)	Install
	(

3-3 Driver CD Information

This page lists the contents of software and drivers in this CD-title.

GIGAB	TE"	Intel [®] 925X / 915 Chipset Family Utilities CD	
nstall Thipset Drivers	Driver CD information The following information shows to	he detail contents stored in this Driver CD.	
oftware opplications			
river CD	Chipset9/1A		
nformation	Directory Name	Description	
lardware of ormation	INFUpdate	Intel® chipset software installation utility for Windows XP Intel® chipset software installation utility for Windows 2000 Intel® chipset software installation utility for Windows ME Intel® chipset software installation utility for Windows S8	
ontact Us	• MA	Intel® application accelerator for Windows XP Intel® application accelerator for Windows 2000	
	• V0A	Win2k_XP - Intel® Graphics Media Accelerator Driver for Windows XP Win2k_XP - Intel® Graphics Media Accelerator Driver for Windows 2000	
	 EnableUSBS30p 	Enable USB device backform 83 mode	
	Audio		
	Directory Name	Description	
	 cmedia 	tmedia AC'97 Audio Driver	
	 Realtek 	Realtek AC'97 Audio Driver	
	Wetwork		
	Directory Name	Description	
	 R\$8139 	LAN Driver for Real/Tek 8139/8100/8110s	
	Marvell	Marvell 10/100/1000 Base LAN driver	
	 BroadCom 	BroadCom PCI-E LAN driver	
	Other		
	Directory Name	Description	
	4		>

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3-4 Hardware Information

This page lists all device you have for this motherboard.

GIGAB	YTE Intel® 925X / 915 Chipset Family Utilities CD	
Install Chipset Drivers	Hardware information The following information shows the detail handware information of your notherboard.	
Software Applications		
Driver CD Information	System info • BIOS infectintel 915 BIOS for 89315ME E3	
Hardware Information	CPU InfecCPU Infel (OenuineInfel) Memory Infec283,420 (SI RAM	
Contact Us	Disector	
	Device Description:Realtek AC%7 Audio Devicit DriverProvide:Realtek Semiconductor Corp.	
	Net	
	System	
	Oxide Description:http://biology.2401 PCI Bridge - 244E Oxide DriverProvider:http:// O	
	Levice Description interly of Scenor Processor to BU Composer - 2560 Device Driver Provider Intel	
	Device Description:http/// 02801FB LPC Interface Controller - 2840 Device/DriverProvide: Intel	

3-5 Contact Us

Please see the last page for details.



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GA-OIS IDIVIE SELIES MOTHERDOARD	- 54 -	

Chapter 4 Appendix

4-1 Unique Software Utilities

(Not all model support these Unique Software Utilities, please check your MB features.)

U-PLUS D.P.S. (Universal Plus Dual Power System)

The U-Plus Dual Power System (U-Plus DPS) is a revolutionary eight-phase power circuit built for ultimate system protection. Designed to withstand varying current levels and changes, the U-Plus D.P.S. provides an immensely durable and stable power circuit to the CPU for solid system stability. These characteristics make it the ideal companion with the latest LGA775 Intel® Pentium® 4 Processor as well as future Intel® processors. As well, 4 blue LED's are mounted on the U-Plus D.P.S. for intelligent indication of system loading.



M.I.T. (Motherboard Intelligent Tweaker)

Motherboard Intelligent Tweaker (M.I.T.) allows user to access and change BIOS feature settings with relative speed and ease. Through GIGABYTE M.I.T. feature the user is no longer required to switch into different modes within BIOS setup in order to change system settings such as the CPU system bus, memory timings or to enabled Gigabyte's unique C.I.A. 2 and M.I.B. 2 features. M.I.T.'s integration of all platform performance settings into a single mode now gives any user the ability to control and enhance their computer system to the desired level.



C.I.A.2 (CPU Intelligent Accelerator 2)

GIGABYTE CPU Intelligent Accelerator 2(C.I.A. 2) is designed to automatically adjust CPU computing power to maximize system performance. When enabled, the program detects the current CPU loading and automatically accelerates the CPU computing performance to allow for a faster and smoother execution of programs. When the function is disabled, the CPU is returned to its initial status.









M.I.B.2 (Memory Intelligent Booster 2)

Built on the original M.I.B., the new Memory Intelligent Booster 2 (M.I.B. 2) is designed especially to maximize memory performance and boost memory bandwidth up to 10%. With added branded memory module information, users are able to optimize memory performance by selecting from a recommended memory module list.

S.O.S. (System Overclock Saver)

System Overclock Saver (S.O.S.) is a unique feature that eliminates system boot-up errors resulting from system over-enhancement by the user. With GIGABYTE's proprietary S.O.S. feature, users no longer need to open up the PC chassis and short-circuit the "Clear CMOS" pins or the battery on the motherboard to reset the system back to factory default settings. Instead, S.O.S. automatically resets the overclocked system settings back to their factory defaults to provide a more user-friendly and reliable platform for users.

Download Center

Download Center allows users to quickly download and update their BIOS as well as the latest drivers for their system. Download Center automatically runs a system check of the user PC and provides the user with the current system information as well as displaying a detailed list of all new drivers with the option for download.

C.O.M. (Corporate Online Management)

A web-based system management tool that allows system hardware information such as CPU, memory, graphics card, etc. to be monitored and controlled via the Internet, C.O.M. allows corporate MIS engineers to easily maintain corporate computers such as providing the most up-to-date drivers and BIOS.(Do not use C.O.M. and @BIOS at the same time)

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4-1-1 EasyTune 5 Introduction

EasyTune 5 presents the most convenient Windows based system performance enhancement and manageability utility. Featuring several powerful yet easy to use tools such as 1) Overclocking for enhancing system performance, 2) C.I.A. and M.I.B. for special enhancement for CPU and Memory, 3) Smart-Fan control for managing fan speed control of both CPU cooling fan and North-Bridge Chipset cooling fan, 4) PC health for monitoring system status.^(Note)

User Interface Overview



	Button / Display	Description
1.	Overclocking	Enters the Overclocking setting page
2.	C.I.A./C.I.A.2 and M.I.B./M.I.B.2	Enters the C.I.A./2 and M.I.B./2 setting page
3.	Smart-Fan	Enters the Smart-Fan setting page
4.	PC Health	Enters the PC Health setting page
5.	GO	Confirmation and Execution button
6.	"Easy Mode" & "Advance Mode"	Toggles between Easy and Advance Mode
7.	Display screen	Display panel of CPU frequency
8.	Function display LEDs	Shows the current functions status
9.	GIGABYTE Logo	Log on to GIGABYTE website
10.	Help button	Display EasyTune™ 5 Help file
11.	Exit or Minimize button	Quit or Minimize EasyTune™ 5 software

(Note) EasyTune 5 functions may vary depending on different motherboards.

4-1-2 Xpress Recovery2 Introduction



Xpress Recovery2 is designed to provide quick backup and restoration of hard disk data. Supporting Microsoft operating systems including Windows XP/2000/NT/98/Me and DOS, and file systems including FAT16, FAT32, and NTFS, Xpress Recovery2 is able to back up data

on hard disks on PATA and SATA IDE controllers. After Xpress Recovery2 is executed from CD-ROM for the first time, it will stay permanent in your hard disk. If you wish to run Xpress Recovery2 later, you can simply press F9 during system bootup to enter Xpress Recovery2 without the CD-ROM.

System requirements:

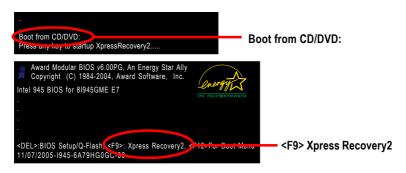
- 1. Intel x86 platforms
- 2. At least 64M bytes of system memory
- 3. VESA-supported VGA cards

How to use the Xpress Recovery2

Initial access by booting from CD-ROM and subsequent access by pressing the F9 key:

Steps: After entering BIOS Setup, go to **Advanced BIOS Feature** and set to boot from CD-ROM. Save the settings and exit the BIOS Setup. Insert the provided driver CD into your CD-ROM drive. Upon system restart, the message which says "Boot from CD/DVD:" will appear in the bottom left corner of the screen. Press any key to enter Xpress Recovery2.

After the steps above are completed, subsequent access to Xpress Recovery2 can be made by simply pressing the <F9> key during system power-on.





- If you have already entered Xpress Recovery2 by booting from the CD-ROM, you can enter Xpress Recovery2 by pressing the <F9> key in the future.
- 2. System storage capacity and the reading/writing speed of the hard disk will affect the data backup speed.
- It is recommended that Xpress Recovery2 be immediately installed once you complete installations of OS and all required drivers as well as software.

The Main Screen of Xpress Recovery2



1. RESTORE:

Restore the backed-up data to your hard disk. (This button will not appear if there is no backup file.)

2. BACKUP:

Back up data from hard disk.

3. REMOVE:

Remove previously-created backup files to release disk space. (This button will not appear if there is no backup

(I his button will not appear if there is no backup file.)

4. REBOOT:

Exit the main screen and restart the system.

Limitations:

- 1. Not compatible to Xpress Recovery.
- 2. For the use of Xpress Recovery2, a primary partition must be reserved.
- 3. Xpress Recovery2 will store the backup file at the end of the hard disk, so free space available on the hard disk for the backup file must be allocated in advance. (A minimum 4GB is recommended but the actual space is dependent on the size of the data to be backed up)
- Capable of backing up hard disks installed with Windows operating systems including DOS and Windows XP/2000/NT/9x/Me.
- 5. USB hard disks are currently not supported.
- 6. Does not support RAID/AHCI (class code 0104/0106) hard disks.
- 7. Capable of backing up and restoring only the first physical hard disk.

Hard disks detection sequence is as follows:

- a. PATA IDE primary channel
- b. PATA IDE secondary channel
- c. SATA IDE channel 1
- d. SATA IDE channel 2
- e. SATA IDE channel 3
- f. SATA IDE channel 4

Precautions:

- 1. When using hard disks with more than 128G under Windows 2000, be sure to execute the EnableBigLba.exe program from the driver CD before data backup.
- 2. It is normal that data backup takes longer time than data restoration.
- 3. Xpress Recovery2 is compliant with the GPL regulations.
- 4. On a few motherboards based on Nvidia chipsets, BIOS update is required for Xpress Recovery2 to correctly identify RAID and SATA IDE mode. Please contact your motherboard manufacturer.
- Xpress Recovery2 supports only PATA hard disks and not SATA hard disks on the following motherboards (As this is a BIOS-related issue, it can be solved by BIOS update)

GA-K8U GA-K8U-9 GA-K8NXP-SLI GA-K8N Ultra-SLI	GA-K8NXP-9 GA-K8N Ultra-9 GA-K8NF-9 (PCB Ver. 1.0) GA-K8NE (PCB Ver. 1.0)	GA-8N-SLI Royal GA-8N-SLI Pro GA-8N-SLI
GA-K8N Pro-SLI	GA-K8NMF-9	

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4-1-3 Flash BIOS Method Introduction



Method 1 : Q-Flash[™] Utility

Q-Flash[™] is a BIOS flash utility embedded in Flash ROM. With this utility, users only have to stay in the BIOS menu when they want to update BIOS. Q-Flash?allows users to flash BIOS without any utility in DOS or

Windows, Using Q-Flash[™] indicating no more fooling around with any complicated instructions and operating system since it is in the BIOS menu.



Please note that because updating BIOS has potential risk, please do it with caution!! We are sorry that Gigabyte Technology Co., Ltd is not responsible for damages of system because of incorrect manipulation of updating BIOS to avoid any claims from end-users.

Before You Begin:

Before you start updating BIOS with the Q-Flash[™] utility, please follow the steps below first.

- Download the latest BIOS for your motherboard from Gigabyte's website. 1.
- 2. Extract the BIOS file downloaded and save the BIOS file (the one with model name.Fxx. For example, 8KNXPU.Fba) to a floppy disk.
- 3. Reboot your PC and press Del to enter BIOS menu.

The BIOS upgrading guides below are separated into two parts. If your motherboard has dual-BIOS, please refer to Part One. If your motherboard has single-BIOS, please refer to Part Two.

Part One:

before updating

Updating BIOS with Q-Flash[™] Utility on Dual BIOS Motherboards.

Some of Gigabyte motherboards are equipped with dual BIOS. In the BIOS menu of the motherboards supporting Q-Flash and Dual BIOS, the Q-Flash utility and Dual BIOS utility are combined in the same screen. This section only deals with how to use Q-Flash utility.

In the following sections, we take GA-8KNXP Ultra as the example to guide you how to flash BIOS from an older version to the latest version. For example, from Fa3 to Fba.



Entering the Q-Flash[™] utility:

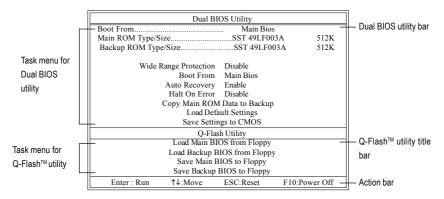
Step1: To use Q-Flash utility, you must press Del in the boot screen to enter BIOS menu.

	CMOS Setup Utility-Copyright (C) 1984-2004 Award Software				
•	Standard CMOS Features	Select Language			
	Advanced BIOS Features	Load Fail-Safe Defaults			
	Integrated Peripherals	Load Optimized Defaults			
	Power Management Setup	Set Supervisor Password			
 PnP/PCI Configurations 		Set User Password			
	PC Health Status	Save & Exit Setup			
	MB Intelligent Tweaker(M.I.T.)	Exit Without Saving			
ES	FSC. Quit F3: Change Language				
F8 :	Dual BIOS/Q-Flash	F10: Save & Exit Setup			
Time, Date, Hard Disk Type					

Step 2: Press F8 button on your keyboard and then Y button to enter the Dual BIOS/Q-Flash utility.

Exploring the Q-Flash[™] / Dual BIOS utility screen

The Q-Flash / Dual BIOS utility screen consists of the following key components.



Task menu for Dual BIOS utility:

Contains the names of eight tasks and two item showing information about the BIOS ROM type. Blocking a task and pressing Enter key on your keyboard to enable execution of the task.

Task menu for Q-Flash utility:

Contains the names of four tasks. Blocking a task and pressing Enter key on your keyboard to enable execution of the task.

Action bar:

Contains the names of four actions needed to operate the Q-Flash/Dual BIOS utility. Pressing the buttons mentioned on your keyboards to perform these actions.

Using the Q-Flash[™] utility:

This section tells you how to update BIOS using the Q-Flash utility. As described in the "Before you begin" section above, you must prepare a floppy disk having the BIOS file for your motherboard and insert it to your computer. If you have already put the floppy disk into your system and have entered the Q-Flash utility, please follow the steps below to flash BIOS.

Steps:

1. Press arrow buttons on your keyboard to move the light bar to "Load Main BIOS from Floppy" item in the Q-Flash menu and press Enter button.

Later, you will see a box pop up showing the BIOS files you previously downloaded to the floppy disk.



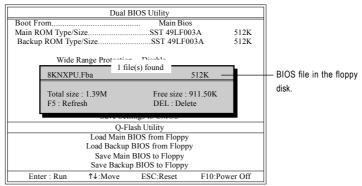
If you want to save the current BIOS for backup purpose, you can begin Step 1 with "Save Main BIOS to Floppy" item.

2. Move to the BIOS file you want to flash and press Enter.

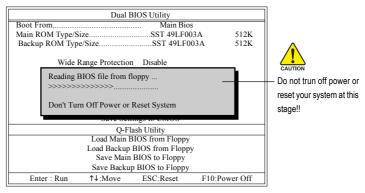
In this example, we only download one BIOS file to the floppy disk so only one BIOS file, 8KNXPU.Fba, is listed.



Please confirm again you have the correct BIOS file for your motherboard.



After pressing **Enter**, you'll then see the progress of reading the BIOS file from the floppy disk.



After BIOS file is read, you'll see a confirmation dialog box asking you "Are you sure to update BIOS?"

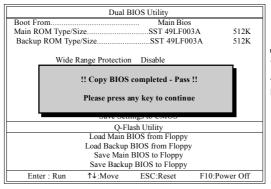
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 Press Y button on your keyboard after you are sure to update BIOS. Then it will begin to update BIOS. The progress of updating BIOS will be displayed.



Please do not take out the floppy disk when it begins flashing BIOS.

4. Press any keys to return to the Q-Flash menu when the BIOS updating procedure is completed.



You can repeat Step 1 to 4 to flash the backup BIOS, too.

 Press Esc and then Y button to exit the Q-Flash utility. The computer will restart automatically after you exit Q-Flash.

Dual BIOS Utility					
Boot From		Main Bio	s		
Main ROM Type/S	ize	SST 49LF0	03A 5	12K	
Backup ROM Typ	e/Size	SST 49LF0	03A 5	12K	
Wide Range Protection Disable					
Are you sure to RESET ? [Enter] to continure or [Esc] to abort					
Suve Settings to Chrob					
	Q-F1	ash Utility			
Load Main BIOS from Floppy					
Load Backup BIOS from Floppy					
Save Main BIOS to Floppy					
Save Backup BIOS to Floppy					
Enter : Run ↑↓:Move ESC:Reset F10:Power Off					

After system reboots, you may find the BIOS version on your boot screen becomes the one you flashed.

	Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2003, Award Software, Inc.
The BIOS file	Intel i875P AGPset BIOS for 8KNXP Ultra Fba
becomes Fab after	Main Processor : Intel Pentium(R) 4 1.6GHz (133x12)
updating.	Memory Testing : 131072K OK
	Memory Frequency 266 MHz in Single Channel Primary Master : FUJITSU MPE3170AT ED-03-08 Primary Slave : None Secondary Master : CREATIVEDVD-RM DVD1242E BC101 Secondary Slave : None
	Press DEL to enter SETUP / Dual BIOS / Q-Flash / F9 For Xpress Recovery 09/23/2003-i875P-6A79BG03C-00

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6. Press Del to enter BIOS menu after system reboots. When you are in BIOS menu, move to Load Fail-Safe Defaults item and press Enter to load BIOS Fail-Safe Defaults. Normally the system redetects all devices after BIOS has been upgraded. Therefore, we highly recommend reloading the BIOS defaults after BIOS has been upgraded.

	CMOS Setup Utility-Copyright (C) 1984-2004 Award Software				
	►	Standard CMOS Features	Select Language		
	 Advanced BIOS Features 		Load Fail-Safe Defaults		
	►	Integrated Perinherals	Load Ontimized Defaults		
	Power Mana; Load Fail-Safe Det		aults (Y/N)? Y		
	PnP/PCI Cor				
	•	PC Health Status	Save & Exit Setup		
	►	MB Intelligent Tweaker(M.I.T.)	Exit Without Saving		
╟─	ESC: Quit		F3: Change Language		
	F8: Dual BIOS/Q-Flash		F10: Save & Exit Setup		
	Time, Date, Hard Disk Type				

Press Y on your keyboard to load defaults.

 Select Save & Exit Setup item to save the settings to CMOS and exit the BIOS menu. System will reboot after you exit the BIOS menu. The procedure is completed.

CMOS Setup Utility-Copyright (C) 1984-2004 Award Software				
Standard CMOS Features Advanced BIOS Features Integrated Perinharale	Select Language Load Fail-Safe Defaults Load Ontimized Dafaulte			
 Power Mana; Save to CMOS and Pn/PCI Cor PC Health Status MB Intelligent Tweaker(M.I.T.) 	EXIT (Y/N)? Y Save & Exit Setup Exit Without Saving			
ESC: Quit F8: Dual BIOS/Q-Flash	F3: Change Language F10: Save & Exit Setup			
Time, Date, Hard Disk Type				

Press Y on your keyboard to save and exit.

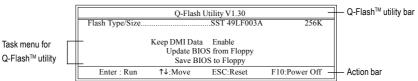
Part Two:

Updating BIOS with Q-Flash[™] Utility on Single-BIOS Motherboards.

This part guides users of single-BIOS motherboards how to update BIOS using the Q-Flash™ utility.

	CMOS Setup Utility-Copyright (C) 1984-2004 Award Software			
•	Standard CMOS Features	Top Performance		
	Advanced BIOS Features	Load Fail-Safe Defaults		
	Integrated Peripherals	Load Optimized Defaults Set Supervisor Password		
	Power Management Setup			
	PnP/PCI Configurations	Set User Password		
	PC Health Status	Save & Exit Setup		
▶	MB Intelligent Tweaker(M.I.T.)	Exit Without Saving		
ES	F3: Change Language			
F8:	Q-Flash	F10: Save & Exit Setup		
	Time, Date, Hard Disk Type			

Exploring the Q-Flash[™] utility screen



The Q-FlashBIOS utility screen consists of the following key components.

Task menu for Q-Flash utility:

Contains the names of three tasks. Blocking a task and pressing Enter key on your keyboard to enable execution of the task.

Action bar:

Contains the names of four actions needed to operate the Q-Flash utility. Pressing the buttons mentioned on your keyboards to perform these actions.

Using the Q-Flash[™] utility:

This section tells you how to update BIOS using the Q-Flash utility. As described in the "Before you begin" section above, you must prepare a floppy disk having the BIOS file for your motherboard and insert it to your computer. If you have already put the floppy disk into your system and have entered the Q-Flash utility, please follow the steps below to flash BIOS.

Steps:

1. Press arrow buttons on your keyboard to move the light bar to "Update BIOS from Floppy" item in the Q-Flash menu and press Enter button.

Later, you will see a box pop up showing the BIOS files you previously downloaded to the floppy disk.

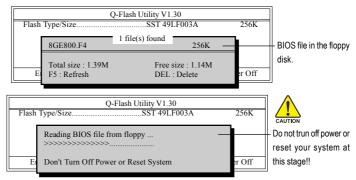


If you want to save the current BIOS for backup purpose, you can begin Step 1 with "Save BIOS to Floppy" item.

2. Move to the BIOS file you want to flash and press Enter.

In this example, we only download one BIOS file to the floppy disk so only one BIOS file, 8GE800.F4, is listed.

Please confirm again you have the correct BIOS file for your motherboard.

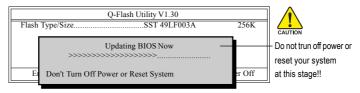


After BIOS file is read, you'll see a confirmation dialog box asking you "Are you sure to update BIOS?"

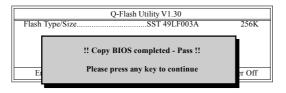
Please do not take out the floppy disk when it begins flashing BIOS.

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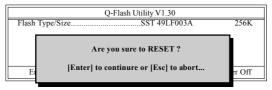
3. Press Y button on your keyboard after you are sure to update BIOS. Then it will begin to update BIOS. The progress of updating BIOS will be shown at the same time.



4. Press any keys to return to the Q-Flash menu when the BIOS updating procedure is completed.



5. Press Esc and then Y button to exit the Q-Flash utility. The computer will restart automatically after you exit Q-Flash.



After system reboots, you may find the BIOS version on your boot screen becomes the one you flashed.



updating

6. Press Del to enter BIOS menu after system reboots and "Load BIOS Fail-Safe Defaults". See how to Load BIOS Fail-Safe Defaults, please kindly refer to Step 6 to 7 in Part One.

Congratulation!! You have updated BIOS successfully!!



Method 2 : @BIOS™ Utility

If you do not have a DOS startup disk, we recommend that you use the new @BIOS utility. @BIOS allows users to update their BIOS under Windows. Just select the desired @BIOS server to download the latest version of BIOS.

Fig 1. Installing the @BIOS utility



Fig 3. The @BIOS Utility

♦ Gigabyte @BIOS Writer for Win9x/ME/NT4/2000/XP				
	Click "Update New BIOS"			
Internet Update Clear DMI Data Pool Clear PhP Data Pool SMI Flash Support	Update New BIOS Save Current BIOS About this program Exit			
I 100%				
Done				

1. Methods and steps:

- I. Update BIOS through Internet
 - a. Click "Internet Update" icon
 - b. Click "Update New BIOS" icon
 - c. Select @BIOS™ sever
 - d. Select the exact model name on your motherboard
 - e. System will automatically download and update the BIOS.

II. Update BIOS NOT through Internet:

- a. Do not click "Internet Update" icon
- b. Click "Update New BIOS"
- c. Please select "All Files" in dialog box while opening the old file.
- Please search for BIOS unzip file, downloading from internet or any other methods (such as: 8I915ME.F2).
- e. Complete update process following the instruction.

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Fig 2. Installation Complete and Run @BIOS



Fig 4. Select the desired @BIOS server

Please select @BIOS server site	
Please select @BIOS server site :	
Gigabyte @BIOS server 1 in Taiwan Gigabyte @BIOS server 2 in Taiwan Gigabyte @BIOS server in China Gigabyte @BIOS server in Japan Gigabyte @BIOS server in U.S.A	Cancel

III. Save BIOS

In the very beginning, there is "Save Current BIOS" icon shown in dialog box. It means to save the current BIOS version.

IV. Check out supported motherboard and Flash ROM:

In the very beginning, there is "About this program" icon shown in dialog box. It can help you check out which kind of motherboard and which brand of Flash ROM are supported.

2. Note:

- In method I, if it shows two or more motherboard's model names to be selected, please make sure your motherboard's model name again. Selecting wrong model name will cause the system unbooted.
- II. In method II, be sure that motherboard's model name in BIOS unzip file are the same as your motherboard's. Otherwise, your system won't boot.
- III. In method I, if the BIOS file you need cannot be found in @BIOS™ server, please go onto Gigabyte's web site for downloading and updating it according to method II.
- IV. Please note that any interruption during updating will cause system unbooted.
- V. Do not use @BIOS and C.O.M. (Corporate Online Management) at the same time.



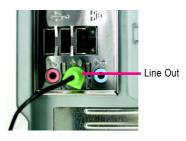
4-1-4 2 / 4 / 6 Channel Audio Function Introduction

2 Channel Audio Setup

We recommend that you use speakers with amplifier to get the best sound effect if the stereo output is applied.

STEP 1:

Connect the stereo speakers or earphone to "Line Out."



STEP 2:

After installing the audio driver, you'll find a Sound Effect icon on the lower right hand taskbar. Click the icon to select the function.





STEP 3:

On the AC97 Audio Configuration menu, click the **Speaker Configuration** tab and select the **2-channel mode for stereo speaker output** check box.

 2-channel mode for stereo speaker output



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4 Channel Analog Audio Output Mode

STEP 1:

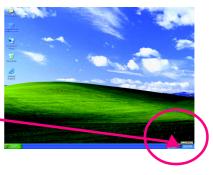
Connect the front channels to "Line Out," the rear channels to "Line In."



STEP 2:

After installing the audio driver, you'll find a Sound Effect icon on the lower right hand taskbar. Click the icon to select the function.





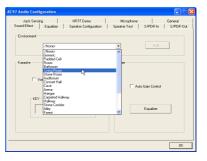
STEP 3:

On the AC97 Audio Configuration menu, click the **Speaker Configuration** tab and select the **4-channel mode for 4 speaker output** check box. Clear the **Only SURROUND-KIT** check box and press **OK**.



 4-channel mode for 4 speaker output

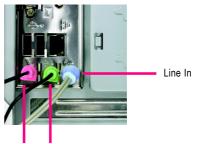
When the **Environment** setting is **None**, the sound would be performed as stereo mode (2-channel output). Please select other settings (ex: **Living Room**) for 4-channel output.



Basic 6 Channel Analog Audio Output Mode

Use the back audio panel to connect the audio output without any additional module. STEP 1-

Connect the front channels to "Line Out", the rear channels to "Line In", and the Center/Subwoofer channels to "MIC In".



MIC In Line Out

STEP 2:

After installing the audio driver, you'll find a Sound Effect icon on the lower right hand taskbar. Click the icon to select the function.





STEP 3:

On the AC97 Audio Configuration menu, click the **Speaker Configuration** tab and select the **6-channel mode for 5.1 speaker output** check box. Clear the **Only SURROUND-KIT** check box and press **OK**.

 6-channel mode for 5.1 speaker output

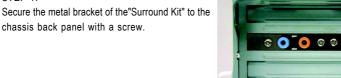


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STEP 2: Connect the "SURROUND-KIT" cable to the SUR_CEN connector on the M/B.

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Advanced 6 Channel Analog Audio Output Mode (using Audio Combo Kit, Optional Device):

(Audio Combo Kit provides SPDIF output port : optical & coaxis and SURROUND-KIT : Rear R/L & CEN /Subwoofer)

channels and Center/Subwoofer channels. It is the best solution if you need 6 channel output, Line In and MIC at the same time. "SURROUND-KIT" is included in the GIGABYTE unique "Audio Combo Kit" as picture.

SURROUND-KIT access analog output to rear

STEP 3:

Connect the front channels to back audio panel's "Line Out", the rear channels to SURROUND-KIT's REAR R/L, and the Center/Subwoofer channels to SURROUND-KIT'S SUB CENTER.



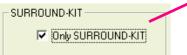
STEP 4:

After installing the audio driver, you'll find a Sound Effect icon on the lower right hand taskbar. Click the icon to select the function.



STEP 5:

On the AC97 Audio Configuration menu, click the **Speaker Configuration** tab and select the **6-channel mode for 5.1 speaker output** check box. Select the **Only SURROUND-KIT** check box and press **OK**.





Basic & Advanced 6 Channel Analog Audio Output Mode Notes:

When the **Environment** setting is **None**, the sound would be performed as stereo mode (2-channel output). Please select the other settings for 6 channels output.

AC97 Audio Configuration	
Jack Sensing HRTF Demo Sound Effect Equalizer Speaker Configuration	Microphone General Syppiker Test S/PDIF-In S/PDIF-Out
Environment Allow All	T Ado San Correl
	ОК.

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SPDIF Output Device (Optional Device)

A "SPDIF output" device is an optional device. The SPDIF_IO cable with rear bracket could link to the "SPDIF_IO" connector (As picture.) For the further linkage to decoder, rear bracket provides coaxial cable and Fiber connecting port.



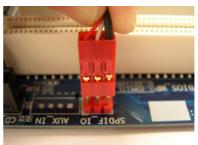
STEP 1:

Secure the metal bracket of the SPDIF Output device to the chassis back panel with a screw.



STEP 2:

Connect the SPDIF device cable to the SPDIF_IO connector on the motherboard.



STEP 3: Connect SPDIF to the SPDIF decoder.



Jack-Sensing Introuction

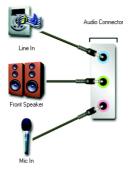
Jack-Sensing provides audio connectors error-detection function.



Install Microsoft DirectX8.1 first to enable Jack-Sensing support for Windows 98SE/2000 /ME.

Jack-Sensing includes 2 parts: AUTO and MANUAL. Following is an example for 2 channels (Windows XP):

Introduction of audio connectors You may connect CDROM, Walkman or other audio input devices to Line In jack, speakers, earphone, other output devices to Line Out jack, and microphone to MIC In jack.



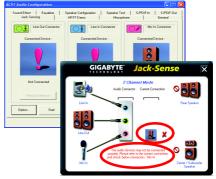
Auto-detecting:

Please connect the devices to the right jacks as above. A window will appear as right picture if you setup the devices properly.

Please note that 3D audio function will only appear when 3D audio inputs.



If you set wrong with the connectors, the warning message will come out as right picture.



ker Test

Manual setting:

If the device picture shows different from what you set, please press "Manual Selection" to set.

	Line Dut Connector	Line In Connector	Mic In Connector
Manual Selection	Connected Device :	Connected Device :	Connected Device :
This device should be recognized as :	2	<u> </u>	Ö
C Power Speaker	Not Connected	Not Connected.	Power Speaker
Microphone	Option Start	Please stop other audio applications bef	Manual Selection
C Headphone / Passive Speaker]
Reset to automatic selection			
OK Cancel			

4-2 Troubleshooting

Below is a collection of general asked questions. To check general asked questions based on a specific motherboard model, please log on to http://www.gigabyte.com.tw

Question 1: I cannot see some options that were included in previous BIOS after updating BIOS. Why? Answer: Some advanced options are hidden in new BIOS version. Please press Ctrl and F1 keys after entering BIOS menu and you will be able to see these options.

Questions 2: Why is the light of my keyboard/optical mouse still on after computer shuts down? Answer: In some boards, a small amount of electricity is kept on standby after computer shuts down and that's why the light is still on.

Question 3: How do I clear CMOS?

Answer: If your board has a Clear CMOS jumper, please refer to the Clear CMOS steps in the manual. If your board doesn't have such jumper, you can take off the on-board battery to leak voltage to clear CMOS. Please refer to the steps below:

Steps:

- 1. Turn off power.
- 2. Disconnect the power cord from MB.
- Take out the battery gently and put it aside for about 10 minutes (Or you can use a metal object to connect the positive and negative pins in the battery holder to makethem short for one minute).
- 4. Re-insert the battery to the battery holder.
- 5. Connect power cord to MB again and turn on power.
- 6. Press Del to enter BIOS and load Fail-Safe Defaults(or load Optimized Defaults).
- 7. Save changes and reboot the system.

Question 4: Why do I still get a weak sound after turning up the speaker to the maximum volume? Answer: Please make sure the speaker you are using is equipped with an internal amplifier. If not, please change another speaker with power/amplifier and try again later.

Question 5: Sometimes I hear different continuous beeps from computer after system boots up. What do these beeps usually stand for?

Answer: The beep codes below may help you identify the possible computer problems. However, they are only for reference purposes. The situations might differ from case to case.

\rightarrow AMI BIOS Beep Codes

*Computer gives 1 short beep when system boots successfully.

*Except for beep code 8, these codes are always fatal.

1 beep Refresh failure		
2 beeps Parity error	\rightarrow	AWARD BIOS Beep Codes
3 beeps Base 64K memory failure		1 short: System boots successfully
4 beeps Timer not operational		2 short: CMOS setting error
5 beeps Processor error		1 long 1 short: DRAM or M/B error
6 beeps 8042 - gate A20 failure		1 long 2 short: Monitor or display card error
7 beeps Processor exception interrupt error		1 long 3 short: Keyboard error
8 beeps Display memory read/write failure		1 long 9 short: BIOS ROM error
9 beeps ROM checksum error		0
10 beeps CMOS shutdown register read/write	00.	Continuous long beeps: DRAM error
11 beeps Cache memory bad	6	Continuous short beeps: Power error

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http://tw.giga-byte.com/TechSupport/ServiceCenter.htm Non-Tech. Support(Sales/Marketing) :

http://ggts.gigabyte.com.tw/nontech.asp

WEB address (English): http://www.gigabyte.com.tw WEB address (Chinese): http://chinese.giga-byte.com

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G.B.T. INC. TEL: +1-626-854-9338 FAX: +1-626-854-9339 Tech. Support : http://tw.giga-byte.com/TechSupport/ServiceCenter.htm Non-Tech. Support(Sales/Marketing) : http://ggts.gigabyte.com.tw/nontech.asp WEB address : http://www.giga-byte.com • Germany G.B.T. TECHNOLOGY TRADING GMBH

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NIPPON GIGA-BYTE CORPORATION WEB address : http://www.gigabyte.co.jp

Singapore

GIGA-BYTE SINGAPORE PTE. LTD. Tech. Support : http://tw.giga-byte.com/TechSupport/ServiceCenter.htm

Non-Tech. Support(Sales/Marketing):

http://ggts.gigabyte.com.tw/nontech.asp

WEB address: http://www.gigabyte.com.sg

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G.B.T. TECH. CO., LTD.

Tech. Support : http://tw.giga-byte.com/TechSupport/ServiceCenter.htm

Non-Tech. Support(Sales/Marketing):

http://ggts.gigabyte.com.tw/nontech.asp

WEB address : http://uk.giga-byte.com

The Netherlands

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