GA-8VM800M-775

Intel® Pentium® 4 LGA775 Processor Motherboard

User's Manual

Rev. 1002 12ME-VM800MT-1002R



 * 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	18, 2005	Date : Aug. 18, 2005	(Stamp)
Date: Aug. 18, 2005	Signature : Timmy Huang	Manufacturer/Importer	Manufi	
Signature: $Eric Lu$	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	Sately for information technology equipment including electrical business equipment	□ EN 60950	Safety requirements for mains operated electronic and related apparatus for household and similar general use	L EN 60065
including that may cause undesired operation.	re mentioned product se with LVD 73/23 EEC	the conformity of abov tandards in accordanc	The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 73/23 EEC	
subject to the following two conditions: (1) This device may not	(EC conformity marking)			⊠ CE marking
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
Supplementary Information:			Cabled distribution systems; Equipment	DIN VDE 0855
(a),Class B Digital Device			Limits and methods of measurement of radio disturbance characteristics of information technology equipment	⊠ 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-8VM800M-775	Immunity requirements for household appliances tools and similar apparatus	□ EN 55014-2	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamos and luminaries	🗆 EN 55015
Product Name: Motherboard	Generic immunity standard Part 2: Industrial environment	□ EN 50082-2	portable tools and similar electrical apparatus	
hereby declares that the product	Generic immunity standard Part 1: Residual, commercial and light industry	□ EN 50082-1	Limits and methods of measurement of radio disturbance characteristics of household electrical annulances	EN 55014-1
Phone/Fax No: (818) 854-9338/ (818) 854-9339	equipment-Immuty characteristics-Limits and methods of measurement		of radio disturbance characteristics of broadcast receivers and associated equipment	
Address: 17358 Railroad Street	electrical equipment "Voltage fluctuations"		nign rrequency equipment	
Responsible Party Name:G.B.T. INC. (U.S.A.)	Disturbances in supply systems caused	⊠ EN 61000-3-2 ⊠ EN 61000-3-3	Limits and methods or measurement of radio disturbance characteristics of industrial, scientific and medical (ISM)	L EN 55011
((ective	e to the specification under which conformity is in accordance with 89/336 EEC-EMC Directive	(reference to the specification under which conformity is declared in accordance with 89/336 EEC-EMC Directive	
Ţ		GA-8VM800M-775 is in conformity with	GA-8	
	o which it refers)	Decisie mat me product paratus, system, installation to	(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. Tech Ausschlager Weg 4	
DECLARATION OF CONFORMITY	nity	Declaration of Conformity We, Manufacturer/Importer (full address)	Declaratic We, Ma	
	:	• •	1	

Copyright

© 2005 GIGA-BYTE TECHNOLOGY CO., LTD. All rights reserved. The trademarks mentioned in the manual are legally registered to their respective companies.

Notice

The written content provided with this product is the property of Gigabyte.

No part of this manual may be reproduced, copied, translated, or transmitted in any form or by any means without Gigabyte's prior written permission. Specifications and features are subject to change without prior notice.

Product Manual Classification

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

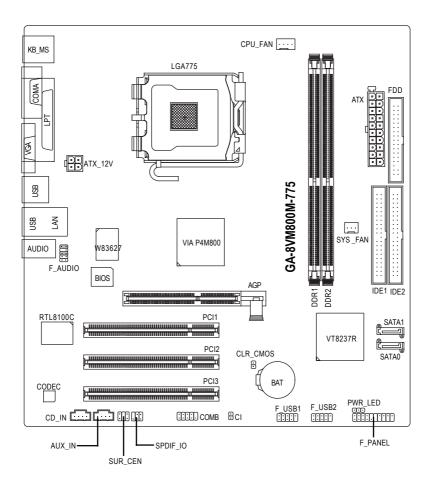
- For detailed product information and specifications, please carefully read the "Product User Manual".
- For detailed information related to Gigabyte's unique features, please go to "Technology Guide" section on Gigabyte's website to read or download the information you need.

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

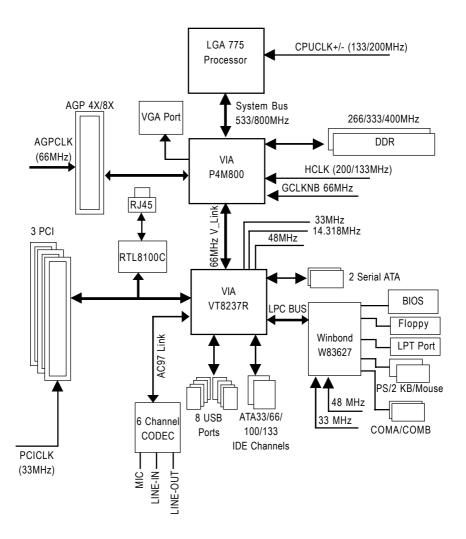
Table of Contents

GA-8VM80	00M-7	75 Motherboard Layout	6
Block Diag	ram		7
-			
Chapter 1	Hardw	vare Installation	. 9
	1-1	Considerations Prior to Installation	. 9
	1-2	Feature Summary	10
	1-3	Installation of the CPU and Heatsink	12
	1-3	3-1 Installation of the CPU	12
	1-3	3-2 Installation of the Heatsink	13
	1-4	Installation of Memory	14
	1-5	Installation of Expansion Cards	15
	1-6	I/O Back Panel Introduction	16
	1-7	Connectors Introduction	17
Chapter 2	BIOS	S Setup	29
			~~
	The w	Iain Menu (For example: BIOS Ver. : E12)	30
	2-1	Aain Menu (For example: BIOS Ver. : E12) Standard CMOS Features	
			32
	2-1	Standard CMOS Features	32 34
	2-1 2-2	Standard CMOS Features Advanced BIOS Features	32 34 36
	2-1 2-2 2-3	Standard CMOS Features Advanced BIOS Features Integrated Peripherals	32 34 36 38
	2-1 2-2 2-3 2-4	Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup	32 34 36 38 40
	2-1 2-2 2-3 2-4 2-5	Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations	32 34 36 38 40 41
	2-1 2-2 2-3 2-4 2-5 2-6	Standard CMOS Features	32 34 36 38 40 41 42
	2-1 2-2 2-3 2-4 2-5 2-6 2-7	Standard CMOS Features	32 34 36 38 40 41 42 44
	2-1 2-2 2-3 2-4 2-5 2-6 2-7 2-8	Standard CMOS Features	32 34 36 38 40 41 42 44 44
	2-1 2-2 2-3 2-4 2-5 2-6 2-7 2-8 2-9	Standard CMOS Features	32 34 36 38 40 41 42 44 45

Chapter 3	ter 3 Drivers Installation		
	3-1	Install Chipset Drivers	49
	3-2	Software Application	50
	3-3	Software Information	50
	3-4	Hardware Information	51
	3-5	Contact Us	51
Chapter 4	Appe	ndix	53
	4-1	Unique Software Utilities	53
	4-1	-1 EasyTune 5 Introduction	54
	4-1		
	4-1	-3 Flash BIOS Method Introduction	57
	4-1	-4 Serial ATA BIOS Setting Utility Introduction	66
	4-1	-5 2 / 4 / 6 Channel Audio Function Introduction	73
	4-2	Troubleshooting	70



Block Diagram





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

CPU	 Supports the latest Intel[®] Pentium[®] 4 LGA775 CPU
	Supports 533/800MHz FSB
	 L2 cache varies with processors
Chipset	Northbridge:VIA P4M800
	Southbridge: VIA 8237R
Memory	2 184-pin DDR DIMM slots
	Supports DDR400/333/266 DIMM
	Supports up to 2GB (Max.)
Slots	 1 AGP slot 4X/8X (1.5V) device support
	3 PCI slots
IDE Connections	• 2 IDE connection (UDMA 33/ATA 66/ATA 100/ATA133), allows connection of
	4 IDE devices
Onboard SATA	2 Serial ATA ports (Note1)
FDD Connections	1 FDD connection, allows connection of 1 FDD devices
Peripherals	1 parallel port supporting Normal/EPP/ECP mode
	 1 VGA port, 1 COMA port, onboard COMB 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 VGA	Built-in VIA P4M800 Chipset
Onboard LAN	Onboard RTL8100C chip (10/100 Mbit)
	 1 RJ45 port
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 (Connector Sensing) function
I/O Control	Winbond W83627
Hardware Monitor	CPU / System fan speed detection
	System voltage detection
	CPU / System temperature detection
	CPU Smart Fan Control

(Note 1) It is recommended to use SATA (1.5Gb/s) hard disks.

Onboard SATA RAID	٠	Built in VT8237R
	٠	Supports Disk striping (RAID0) or DISK Mirroring (RAID1)
	٠	Supports UDMA up to 150 MB/sec
	٠	Up to 2 SATA Device
BIOS	٠	Use of licensed AWARD BIOS
	٠	Supports Q-Flash
Additional Features	٠	Supports @BIOS
	٠	Supports EasyTune (Note 2)
Overclocking	٠	Over Clock via BIOS (CPU/DRAM)
	٠	Over Voltage via BIOS (AGP/DIMM)

Micro-ATX form factor; 24.4cm x 23.3cm

Form Factor

(Note 2) EasyTune functions may vary depending on different motherboards.

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 VIA 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

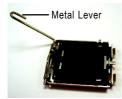


Fig. 1 Gently lift the metal lever located on the CPU socket to the upright position.



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

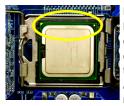


Fig. 3 Notice the small gold colored triangle located on the edge of the CPU socket. Align the indented corner of the CPU with

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-8VM800M-775 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.

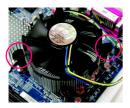


Fig. 3

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.

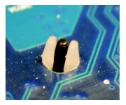


Fig. 5

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

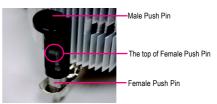


Fig. 2

(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.

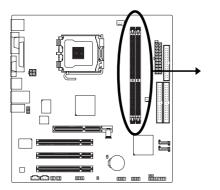
1-4 Installation of Memory

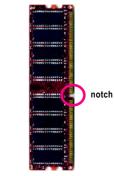


Before installing the memory modules, please comply with the following conditions:

- 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.
 - 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 has 2 dual inline memory module (DIMM) sockets. The BIOS will automatically detects memory type and size. To install the memory module, just push it vertically into the DIMM socket. The DIMM module can only fit in one direction due to the notch. Memory size can vary between sockets.





DDR memory module

Fig.1

The DIMM socket has a notch, so the DIMM memory module can only fit in one direction. Insert the DIMM memory module vertically into the DIMM socket. Then push it down.

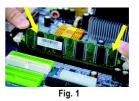
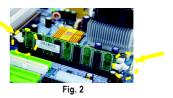


Fig.2

Close the plastic clip at both edges of the DIMM sockets to lock the DIMM module.

Reverse the installation steps when you wish to remove the DIMM module.



GA-8VM800M-775 Motherboard

- 14 -

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 installing 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.

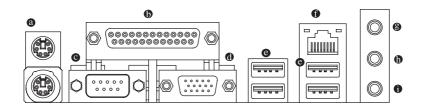
Installing a AGP expansion card:





Please carefully pull out the small whitedrawable bar at the end of the AGP slot when you try to install/uninstall the VGA card. Please align the VGA card to the onboard AGP slot and press firmly down on the slot. Make sure your VGA card is locked by the small white-drawable bar.

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 to the lower port (purple).

Parallel Port

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

Serial Port

Devices like mouses, modems, and etc. can be connected to Serial port.

Ø VGA Port

Monitor can be connected to VGA port.

OUSB 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.

Line In

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

Line Out (Front Speaker Out)

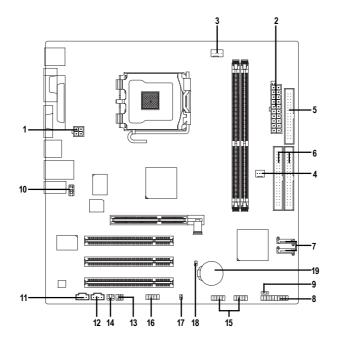
Connect the stereo speakers, earphone or front surround channels to this connector.

MIC In

Microphone can be connected to MIC In jack.

English

1-7 Connectors Introduction



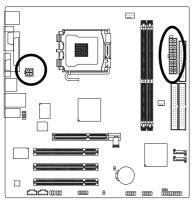
1)	ATX_12V	11)	CD_IN
2)	ATX (Power Connector)	12)	AUX_IN
3)	CPU_FAN	13)	SPDIF_IO
4)	SYS_FAN	14)	SUR_CEN
5)	FDD	15)	F_USB1 / F_USB2
6)	IDE1/IDE2	16)	СОМВ
7)	SATA0 / SATA1	17)	CI
8)	F_PANEL	18)	CLR_CMOS
9)	PWR_LED	19)	BAT
10)	F_AUDIO		

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.



3	٦L		<u>ソ</u>
(<u>_</u>		,
11		•	1
	•		
		•	
Ч	D	•	
Ч		\Box	
	•	▣	
	D	•	
	D	•	

20 0 0

Ľ

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

Pin No.	Definition
1	3.3V
2	3.3V
3	GND
4	+5V
5	GND
6	+5V
7	GND
8	Power Good
9	5V SB (stand by +5V)
10	+12V
11	3.3V
12	-12V
13	GND
14	PS_ON(soft on/off)
15	GND
16	GND
17	GND
18	-5V
19	+5V
20	+5V

GA-8VM800M-775 Motherboard

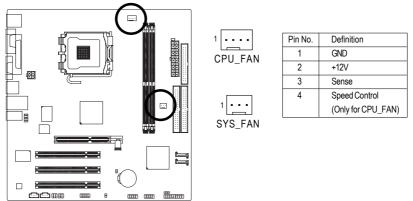
3/4) CPU_FAN / SYS_FAN (Cooler Fan Power Connector)

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 fool-proof 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).

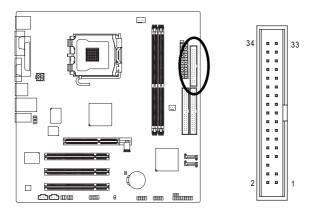
Please remember to connect the power to the cooler to prevent system overheating and failure.

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



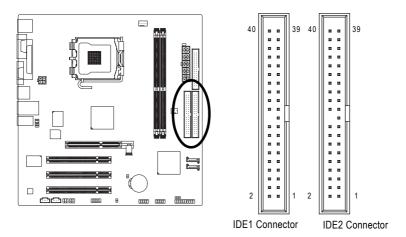
5) FDD (FDD Connector)

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.



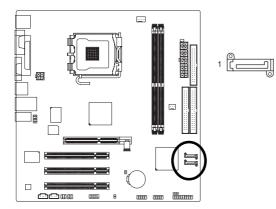
6) IDE1/IDE2 (IDE Connector)

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/SATA1 (Serial ATA Connector)

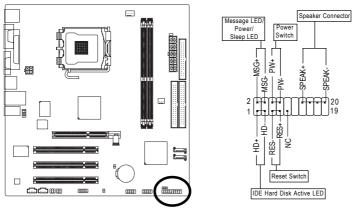
Serial ATA can provide up to 150MB/s transfer rate. Please refer to the BIOS setting for the Serial ATA and install the proper driver in order to work properly.



Pin No.	Definition
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

8) F_PANEL (Front Panel Connector)

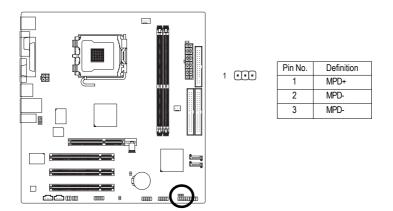
Please connect the power LED, PC speaker, reset switch and power switch etc. of your chassis front panel to the F_PANEL connector according to the pin assignments below.



HD (IDE Hard Disk Active LED)	Pin 1: LED anode(+)
	Pin 2: LED cathode(-)
SPEAK (Speaker Connector)	Pin 1: Power
	Pin 2- Pin 3: NC
	Pin 4: Data(-)
RES (Reset Switch)	Open: Normal
	Close: Reset Hardware System
PW (Power Switch)	Open: Normal
	Close: Power On/Off
MSG(Message LED/Power/Sleep LED)	Pin 1: LED anode(+)
	Pin 2: LED cathode(-)
NC	NC

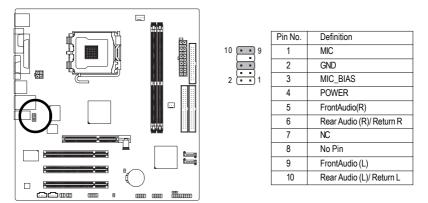
9) PWR_LED

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



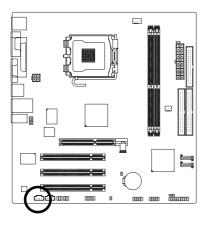
10) F_AUDIO (Front Audio Panel Connector)

Please make sure the pin assignment on the cable is the same as the pin assignment on the MB header. 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 from pins 5-6, 9-10.



11) CD_IN (CD IN Connector)

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

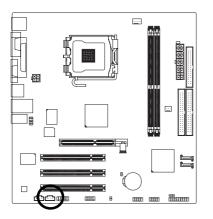


1	Pin No.	Definition
— <u>`</u>	1	CD-L
· · ·	2	GND
	3	GND
	4	CD-R

- -

12) AUX_IN (AUX In Connector)

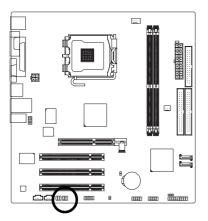
Connect other device (such as PCI TV Tunner audio out) to the connector.



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

13) SPDIF_IO (SPDIF In/ Out)

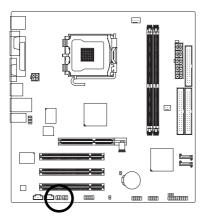
The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder. Use this feature only when your stereo system has digital input function. Use SPDIF IN feature only when your device has digital output function. Be careful with the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



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

14) SUR_CEN

Please contact your nearest dealer for optional SUR_CEN cable.



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

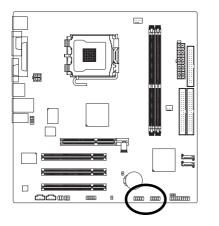
GA-8VM800M-775 Motherboard

2 6

15) F1_USB / F2_USB (Front USB Connectors)

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.

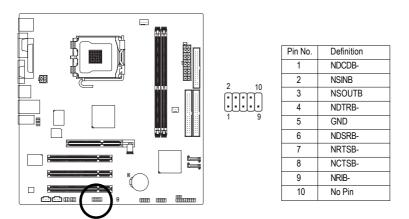
10



Pin No.	Definition
1	Power
2	Power
3	USB0 DX-
4	USB1 Dy-
5	USB0DX+
6	USB1 Dy+
7	GND
8	GND
9	No Pin
10	NC

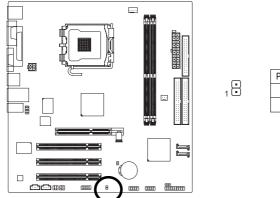
16) COMB (COMB Connector)

Be careful with the polarity of the COMB connector. Check the pin assignments while you connect the COMB cable. Please contact your nearest dealer for optional COMB cable.



17) CI (Chassis Intrusion, Case Open)

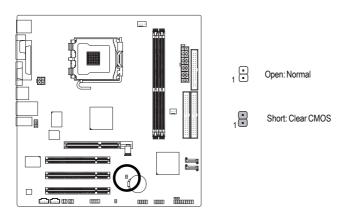
This 2-pin connector allows your system to detect if the chassis cover is removed. You can check the "Case Opened" status in BIOS Setup.



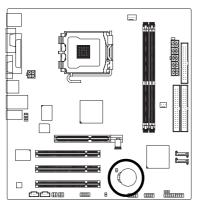
`	Pin No.	Definition
}	1	GND
	2	Signal

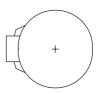
18) CLR_CMOS (Clear CMOS)

You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short pins 1-2. To prevent improper use of this header, we do not include a jumper on it.



GA-8VM800M-775 Motherboard





- 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.

GA-8VM800M-775 Motherboard	- 28 -		

Download from Www.Somanuals.com. All Manuals Search And Download.

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.

$\overline{<\!\!\uparrow\!><\!\!\downarrow\!><\!\!\leftarrow\!><}$	\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 fail-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.

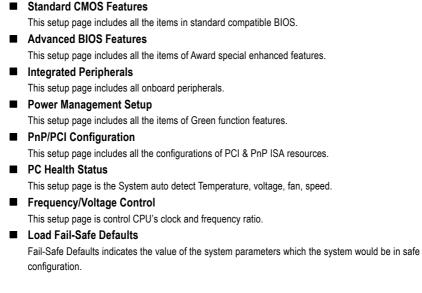
The Main Menu (For example: BIOS Ver. : E12)

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.



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 Set	p Utility-Copyright (C) 1984-2005 Award Softward Standard CMOS Features	are
	Date (mm:dd:yy)	Wed, May 11 2005	Item Help
	Time (hh:mm:ss)	10:40:9	Menu Level
			Change the day, month,
▶	IDE Channel 0 Master	[None]	year
▶	IDE Channel 0 Slave	[None]	
▶	IDE Channel 1 Master	[None]	<week></week>
∥ ▶	IDE Channel 1 Slave	[None]	Sun. to Sat.
	IDE Channel 2 Master	[None]	I . I
∥ ▶	IDE Channel 3 Master	[None]	<month></month>
			Jan. to Dec.
	Drive A	[1.44M, 3.5"]	
	Floppy 3 Mode Support	[Disabled]	<day></day>
			1 to 31 (or maximum
	Halt On	[All, But Keyboard]	allowed in the month)
	Base Memory	640K	<year></year>
	Extended Memory	127M	1999 to 2098
	Total Memory	128M	
^.	L→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F10: Save ESC: F6: Fail-Safe Defaults F7: Optimized 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 0/1 Master, Slave

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

▶ 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)

☞ IDE Channel 2/3 Master

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

▶ Extended IDE Drive SATA devices setup. You can use one of two methods:

Auto	Allows BIOS to automatically detect SATA IDE devices during POST.
	(Default value)

None Select this if no SATA IDE devices are used and the system will skip the automatic detection step and allow for faster system start up.

Access Mode Use this to set the access mode for the hard drive. The two options are: Large/Auto(default:Auto)

GA-8VM800M-775 Motherboard

- 32 -

Download from Www.Somanuals.com. All Manuals Search And Download.

➤ Capacity Capacity of currently installed hard disk.

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

Drive A

The category identifies the types of floppy disk drive A 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. (Default value)
▶ 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.

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 yo	
	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.

This item displays the memory size that used.

2-2 Advanced BIOS Features

_	CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Advanced BIOS Features								
	 Hard Disk Boot Priority First Boot Device Second Boot Device Third Boot Device Password Check CPU Hyper-Threading Limit CPUID Max. to 3 No-Execute Memory Protect (Note) CPU Enhanced Halt (C1E) (Note) CPU EIST Function (Note) 	[Press Ente [Floppy] [Hard Disk [CDROM] [Setup] [Enabled] [Disabled] [Enabled] [Enabled] [Enabled]		Item Help Menu Level Select Hard Disk Boot Device Priority					
	↑↓→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F6: Fail-Safe Defaults	F10: Save ESC: F7: Optimized Defaults						

NOTE

" # " 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.
- ➡ ZIP Select your boot device priority by ZIP.
- ▶ USB-FDD Select your boot device priority by USB-FDD.
- ➡ USB-ZIP Select your boot device priority by USB-ZIP.
- ▶ USB-CDROM Select your boot device priority by USB-CDROM.
- ▶ USB-HDD Select your boot device priority by USB-HDD.
- ➡ Legacy LAN Select your boot device priority by Legacy LAN.
- ► Disabled Disable this function.

Password Check

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

∽ No-Execute Memory Protect ^(Note)

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

∽ CPU Enhanced Halt (C1E) ^(Note)

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

○ CPU EIST Function (Note)

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

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

2-3 Integrated Peripherals

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Integrated Peripherals						
OnChip IDE Channel 0 OnChip IDE Channel 1 OnChip Serial ATA SATA Mode AC97 Audio USB 1.1 Controller USB 2.0 Controller USB Keyboard Support USB Mouse Support Onboard H/W LAN OnBoard H/W LAN OnBoard LAN Boot ROM Onboard Serial Port 1 Onboard Serial Port 2 Onboard Serial Port Parallel Port Mode x EPP Mode Select	[Enabled] [Enabled] [Enabled] [RAID] [AAIto] [Enabled] [Enabled] [Disabled] [Disabled] [Disabled] [Basbled] [Jisabled] [J	Item Help Menu Level▶				
↑↓→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F10: Save F6: Fail-Safe Defaults F7: Optimized	ESC: Exit F1: General Help ed Defaults				

OnChip IDE Channel0

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

∽ OnChip IDE Channel1

- Enabled Enable onboard 2nd channel IDE port. (Default value)
- ✤ Disabled Disable onboard 2nd channel IDE port.

∽ OnChip Serial ATA

- ✤ Enabled Enable VT8237R Plus Serial ATA supported. (Default value)
- ➡ Disabled Disable VT8237R Plus Serial ATA supported.

☞ SATA Mode

- ➡ RAID Set onboard SATA mode to RAID. (Default value)
- ► IDE Set onboard SATA mode to IDE.

ー AC97 Audio

- ➡ Auto Enable onboard AC'97 audio function. (Default value)
- Disabled Disable this function.

☞ USB 1.1 Controller

- Disabled Disable USB 1.1 controller.
- Enabled Enable USB 1.1 controller. (Default value)

☞ USB 2.0 Controller

- ✤ Disabled Disable USB 2.0 controller.
- Enabled Enable USB 2.0 controller. (Default value)

USB Keyboard Support

- ➡ Enabled Enable USB keyboard support.
- Disabled
 Disable USB keyboard support. (Default value)

GA-8VM800M-775 Motherboard

☞ USB Mouse Support

- ➡ Enabled Enable USB mouse support.
- Disabled Disable USB mouse support. (Default value)

∽ Onboard H/W LAN

- Enabled Enable onboard LAN chip function. (Default value)
- Disabled Disable onboard LAN chip function.

∽ OnBoard LAN Boot ROM

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

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

Onboard Serial Port 1

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

Onboard Serial Port 2

- ➤ Auto BIOS will automatically set up the Serial port 2 address.
- ➡ 3F8/IRQ4 Enable onboard Serial port 2 and address is 3F8/IRQ4.
- >> 2F8/IRQ3 Enable onboard Serial port 2 and address is 2F8/IRQ3. (Default value)
- ➡ 3E8/IRQ4 Enable onboard Serial port 2 and address is 3E8/IRQ4.
- ▶ 2E8/IRQ3 Enable onboard Serial port 2 and address is 2E8/IRQ3.
- 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 and EPP mode.

☞ EPP Mode Select

- ➡ EPP1.7 Set EPP Mode to EPP1.7. (Default value)
- ➡ EPP1.9 Set EPP Mode to EPP1.9.

2-4 Power Management Setup

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Power Management Setup				
ACPI Suspend Type x USB Device Wake-Up From S3 Soft-Off by PWRBTN AC Back Function Keyboard Power On Mouse Power On PME Event Wake Up Modem Ring Resume Resume by Alarm x Date (of Month) Alarm x Time (hh:mm:ss) Alarm	[S1(POS)] Disabled [Instant-Off] [Soft-Off] [Disabled] [Enabled] [Enabled] [Disabled] [Enabled] Everyday 0:0:0:0	Item Help Menu Level) [S1] Set suspend type to Power On Suspend under ACPI OS [S3] Set suspend type to Suspend to RAM under ACPI OS		
↑↓→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F10: S F6: Fail-Safe Defaults F7: Op	Save ESC: Exit F1: General Help ptimized 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).

☞ USB Device Wake-Up From S3

- Disabled
 Disable USB Device Wake-Up from S3. (Default value)
- ▶ Enabled Enable USB Device Wake-Up from S3.

☞ Soft-Off by PWRBTN

✤ 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.

∽ AC BACK Function

- Memory When AC-power back to the system, the system will be back to the last state before AC-power is lost.
- 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.

☞ Keyboard Power On

- ✤ Password Enter from 1 to 8 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.

Mouse Power On

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

☞ PME Event Wake Up

- This feature requires an ATX power supply that provides at least 1A on the 5VSB lead.
- Disabled Disable this function.
- ➡ Enabled Enable PME as wake up event. (Default value)

∽ Modem Ring Resume

An incoming call via modem can awake the system from any suspend state.

- Disabled Disable Modem Ring Resume function.
- ✤ Enabled Enable Modem Ring Resume function. (Default value)

☞ Resume by Alarm

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

- Disabled Disable this function. (Default value)
- Enabled Enable alarm function to POWER ON system.
- If Resume by Alarm is Enabled.
- Date (of Month) Alarm : Everyday, 1~31
- ➡ Time (hh: mm: ss) Alarm: (0~23) : (0~59) : (0~59)

2-5 PnP/PCI Configurations

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PnP/PCI Configurations				
PCI 1 IRQ Assignment PCI 2 IRQ Assignment PCI 3 IRQ Assignment	[Auto] [Auto]	guarons	Item Help Menu Levei▶	
↑↓→←: Move Enter: 5 F5: Previous Value		F10: Save ESC: F7: Optimized Defaults		

PCI 1 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.

→ PCI 2 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 2.

☞ PCI 3 IRQ Assignment

► Auto

▶ 3,4,5,7,9,10,11,12,14,15

Auto assign IRQ to PCI 3. (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	[Disabled]	Item Help	
Case Opened		Menu Level▶	
VCORE	OK		
DDR25V	OK		
+3.3V	OK		
+12V	OK		
System Temperature			
CPU Temperature			
Current System FAN Speed	0 RPM		
Current CPU FAN Speed	3245 RPM		
System Warning Temp.	[Disabled]		
CPU Warning Temp.	[Disabled]		
System FAN Fail Warning	[Disabled]		
CPU FAN Fail Warning	[Disabled]		
CPU Smart FAN Control	[Enabled]		
↑↓→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F10: Save F6: Fail-Safe Defaults F7: Optim	ESC: Exit F1: General Help ized Defaults	

Reset 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.

∽ System / CPU Temperature

▶ Detect System / CPU temperature automatically.

∽ Current System / CPU FAN Speed (RPM)

▶ Detect System / CPU Fan speed status automatically.

∽ System Warning Temp.

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

∽ CPU Warning Temp.

- ▶ 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)

∽ System/CPU 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)

2-7 Frequency / Voltage Control

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Frequency/Voltage Control				
CPU Clock Ratio ^(Note) Auto Detect PCI/DIMM Clk Spread Spectrum CPU Host Clock Control x CPU Clock DRAM Clock AGP OverVoltage Control DIMM OverVoltage Control	[15X] [Enabled] [Enabled] [Disabled] 200MHz By SPD [Audo] [Auto]	Item Help Menu Level≯		
↑↓→←: Move Enter: Select F5: Previous Values	+/-/PU/PD: Value F10: Save F6: Fail-Safe Defaults F7: Optimize	ESC: Exit F1: General Help ed 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.

∽ Auto Detect PCI/DIMM Clk

Enabled Detect the PCI/DIMM clock automatically. (Default value)
 Disabled Disable this function

∽ Spread Spectrum

- ➡ Enabled Enable clock spread spectrum. (Default value)
- ✤ Disabled Disable this function.

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

GA-8VM800M-775 Motherboard

CPU Host Clock Control

Note: Please note that if your system is overclocked and cannot restart, please wait 20secs. for automatic system restart or clear the CMOS setup data and perform a safe restart.

- Disabled Disable CPU Host Clock Control. (Default value)
- Enabled Enable CPU Host Clock Control.

ా CPU Clock

▶ 200MHz ~255MHz Set CPU Clock from 200MHz to 255MHz.

DRAM Clock

▶ Please set DRAM Clock according to your requirement.

If you use DDR266 DRAM module, please set "DRAM Clock" to "133". If you use DDR333 DRAM module, please set "DRAM Clock" to "166". If you use DDR400 DRAM module, please set "DRAM Clock" to "200".

Incorrect using it may cause your system broken. For power End-User use only!

∽ AGP OverVoltage Control

✤ Auto BIOS will automatically detect AGP voltage. (Default value)

- ► +0.1V Set AGP OverVoltage Control to +0.1V.
- ➡ +0.2V Set AGP OverVoltage Control to +0.2V.

Increase AGP voltage may get stable for $\mathsf{Over}_\mathsf{Clock}.$ But it may damage to AGP Card when enable this feature.

☞ DIMM OverVoltage Control

Please note that by overclocking your system through the increase of the DDR voltage, damage to the memory may occur.

- ➤ Auto BIOS will automatically detect DIMM voltage. (Default value)
- ► +0.1V Set DIMM OverVoltage Control to +0.1V.
- ► +0.2V Set DIMM OverVoltage Control to +0.2V.

Incorrect using it may cause your system broken. For power End-User use only!

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 Fail-Safe PC Health Succes Frequency/Voltage Control	Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Control Control Contro			
ESC: Quit	↑↓→←: Select Item			
F8: Q-Flash	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 Ma PnP/PCI C Load Optimized PC Health succes Frequency/Voltage Control	Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Control Control Contro			
ESC: Quit	$\uparrow \downarrow \rightarrow \leftarrow: Select Item$			
F8: Q-Flash 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 Marconnect Control 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 F10: Save & Exit Setup			
Change/Set/Disable Password				

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 Advanced BIOS Features Integrated Peripherals	Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password		
Power Management Setup PnP/PCI C PC Health Save to CMOS and EXIT (Y/N)? Y Frequency, rounge control			
ESC: Quit F8: Q-Flash Save Data	↑↓→←: Select Item F10: Save & Exit Setup to CMOS		

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	Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password			
PnP/PCI C Quit Without Saving (Y/N)? N PC Health Status Frequency/Voltage Control				
ESC: Quit F8: O-Flash	↑↓→←: Select Item F10: Save & Exit Setup			
Abandon all Data				

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

 	D IA 2 2
- 47 -	BIOS Setup

GA-8VM800M-775 Motherboard - 48 -		
CA-8VM800M-775 Motherboard - 48 -		
CA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
CA-8VM800M-775 Motherboard - 48 -		
CA-8VM800M-775 Motherboard - 48 -		
CA-8VM800M-775 Motherboard - 48 -		
CA-8VM800M-775 Motherboard - 48 -		
CA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
GA-8VM800M-775 Motherboard - 48 -		
	GA-8VM800M-775 Motherboard - 48 -	

Chapter 3 Drivers Installation



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 Setup.exe.

3-1 Install Chipset Drivers

After insert the driver CD, "Xpress Install" will scan automatically the system and then list all the drivers that recommended to install. The "Xpress Install" uses the "Click and Go" technology to install the drivers automatically. Just select the drivers you want then click the "GO" button. The "Xpress Install" will execute the installation for you automatically.





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 a question 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).
- Some Nvidia graphics cards might have display problems under Windows 2000/XP. Please install the driver from the following location: D:\Chipset\nVidia\WinXP_2K\Setup.exe (we assume your CD-ROM drive is D:).

3-2 Software Application

This page displays all the tools that Gigabyte developed and some free software. You can click an item to install it.



3-3 Software Information

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



GA-8VM800M-775 Motherboard

3-4 Hardware Information

This page lists all device you have for this motherboard.



3-5 Contact Us

Please see the last page for details.



A-8VM800M-775 Motherboard	- 52 -		

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.



SÐS





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.)

- 53 -

Appendix

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:

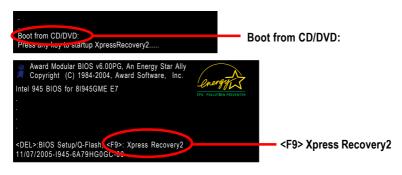
- 1. Intel x86 platforms
- 2. At least 64M bytes of system memory
- 3. VESA-supported VGA cards

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.

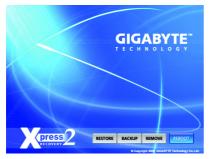
After the steps above are completed, subsequent access to Xpress Recovery2 can be made by simply pressing the <F9> key during system power-on.





- 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.
- 3. 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 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-K8NXP-9	GA-8N-SLI Royal
GA-K8U-9	GA-K8N Ultra-9	GA-8N-SLI Pro
	GA-K8NF-9 (PCB Ver. 1.0)	GA-8N-SLI
GA-K8N Ultra-SLI	GA-K8NE (PCB Ver. 1.0)	
GA-K8N Pro-SLI	GA-K8NMF-9	
GA-8VM800M-775 Motherboard	- 56 -	

Download from Www.Somanuals.com. All Manuals Search And Download.

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:

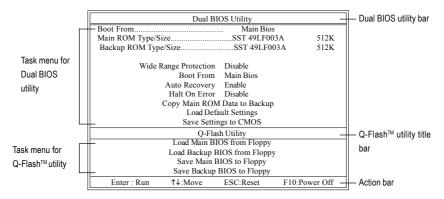
Step1: To use Q-Flash utility, you must press Del in the boot screen to enter BIOS menu.

	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	e. quit	F3: Change Language	
F8 :	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.



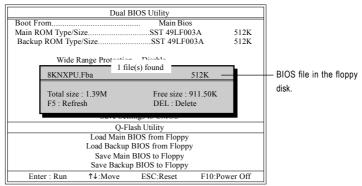
If you want to save the current BIOS for backup purpose, you can begin Step 1 with "Save Main BIOS to Floppy" item.

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

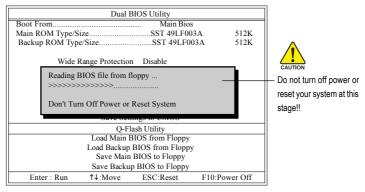
In this example, we only download one BIOS file to the floppy disk so only one BIOS file, 8KNXPU.Fba, is listed.



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?"

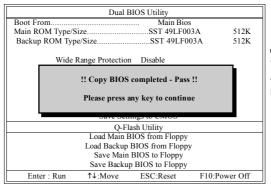
- 59 -

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 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.

5. 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 49LF00)3A 512	2K	
Backup ROM Typ	e/Size	SST 49LF0	03A 512	2K	
Wide	Wide Range Protection Disable				
Are you sure to RESET ? [Enter] to continure or [Esc] to abort					
Sure beamgs to enrob					
Q-Flash 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 C	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 09/23/2003-1875P-6A79BG03C-00

GA-8VM800M-775 Motherboard

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 De		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 Periodecale	Select Language Load Fail-Safe Defaults Load Optimized Defaults	
 Power Mana; Save to CMOS and PnP/PCI Cor PC Health Status MB Intelligent Tweaker(M.I.T.) 	EXIT (Y/N)? Y Save & Exit Setup 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 save and exit.

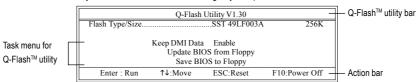
Part Two:

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	
	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	c. Quit	F3: Change Language	
F8:	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.

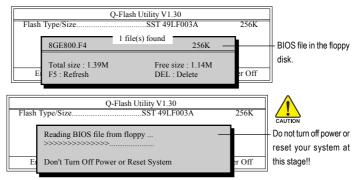


If you want to save the current BIOS for backup purpose, you can begin Step 1 with "Save BIOS to Floppy" item.

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.



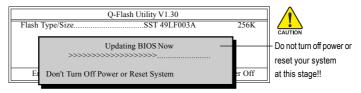
After BIOS file is read, you'll see a confirmation dialog box asking you "Are you sure to update BIOS?"

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

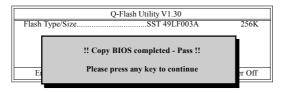
GA-8VM800M-775 Motherboard

Download from Www.Somanuals.com. All Manuals Search And Download.

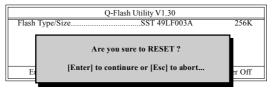
3. Press Y button on your keyboard after you are sure to update BIOS. Then it will begin to update BIOS. The progress of updating BIOS will be shown at the same time.



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



Fig 2. Installation Complete and Run @BIOS



Fig 4. Select the desired @BIOS server



1. Methods and steps:

- I. Update BIOS through Internet
 - a. Click "Internet Update" icon
 - b. Click "Update New BIOS" icon
 - c. Select @BIOSTM 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: 8VM800M-775.E12).
 - e. Complete update process following the instruction.

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 Serial ATA BIOS Setting Utility Introduction

RAID Levels

RAID (Redundant Array of Independent Disks) is a method of combining two hard disk drives into one logical unit. The advantage of an Array is to provide better performance or data fault tolerance. Fault tolerance is achieved through data redundant operation, where if one drives fails, a mirrored copy of the data can be found on another drive. This can prevent data loss if the operating system fails or hangs. The individual disk drives in an array are called members. The configuration information of each member is recorded in the reserved sector that identifies the drive as a member. All disk members in a formed disk array are recognized as a single physical drive to the operating system.

Hard disk drives can be combined together through a few different methods. The different methods are referred to as different RAID levels. Different RAID levels represent different performance levels, security levels and implementation costs. The RAID levels which the VIA VT8237R chipset supports are RAID 0, RAID 1, and JBOD.

RAID 0 (Striping)

RAID 0 reads and writes sectors of data interleaved between multiple drives. If any disk member fails, it affects the entire array. The disk array data capacity is equal to the number of drive members times the capacity of the smallest member. The striping block size can be set from 4KB to 64KB. RAID 0 does not support fault tolerance.

RAID 1 (Mirroring)

RAID 1 writes duplicate data onto a pair of drives and reads both sets of data in parallel. If one of the mirrored drives suffers a mechanical failure or does not respond, the remaining drive will continue to function. Due to redundancy, the drive capacity of the array is the capacity of the smallest drive. Under a RAID 1 setup, an extra drive called the spare drive can be attached. Such a drive will be activated to replace a failed drive that is part of a mirrored array. Due to the fault tolerance, if any RAID 1 drive fails, data access will not be affected as long as there are other working drives in the array.

JBOD (Spanning)

A spanning disk array is equal to the sum of the all drives when the drives used are having different capacities. Spanning stores data onto a drive until it is full, then proceeds to store files onto the next drive in the array. When any disk member fails, the failure affects the entire array. JBOD is not really a RAID and does not support fault tolerance.

Please follow the steps below to construct a complete RAID array:

- Have ready your hard drives for RAID construction. Note: To achieve best performance, it is recommended that the hard drives used are of similar make and storage capacity.
- Please attach the hard drive connectors to their appropriate location on the motherboard ie. IDE, SCSI, or SATA.
- 3) Enter the motherboard BIOS and locate RAID setup (Please refer to the section on Integrated Peripherals).
- Enter RAID setup in the BIOS and select the RAID type (For instance, enter Tab to select VT8237R RAID; Ctrl + S to select Silicon Image).
- 5) Complete driver installation.
- 6) Complete RAID utility installation.

More information on steps 4 and 5 is provided. (For more detailed setup information, please visit our website at http://www.gigabyte.com.tw to read or download the information you need.)

Configuring the VT8237(VT8237R) SATA RAID BIOS

The RAID BIOS setup utility lets you choose the RAID array type and which hard drives you want to make part of the array.

Entering the VT8237(VT8237R) SATA RAID BIOS Setup Utility

1. After rebooting your computer, wait until you see the RAID software prompting you to press **Tab**. The RAID prompt appears as part of the system POST and boot process prior to loading the OS. You have a few seconds to press **Tab** before the window disappears.

VIA Technologies, Inc. VIA VT8237 Serial ATA RAID BIOS Setting Utility V2.31 Copyright (C) VIA Technologies, Inc. All Right reserved.	
Scan Devices, Please wait Press <tab> key into User Window! Serial_Ch0 Master : ST3120026AS Serial_Ch1 Master : ST3120026AS</tab>	

Press **Tab** to enter RAID setup utility, the **VT8237 SATA RAID BIOS** utility screen will appear. You can press up arrow key< \uparrow > or down arrow key< \downarrow > to move the selection bar and select the item that you want to execute.

VIA Tech. VT8237 S.	VIA Tech. VT8237 SATA RAID BIOS Ver 2.31		
 Create Array Delete Array Create/Delete Spare Select Boot Array Serial Number View 	Create a RAID array with the hard disks attached to VIA RAID controller F1 : View Array/disk Status ↑, ↓ : Move to next item Enter : Confirm the selection ESC : Exit		
Channel Drive Name Ar	rayName Mode Size(GB) Status		
Serial_Ch0 Master ST3120026AS	SATA 111.79 Hdd		
Serial_Ch1 Master ST3120026AS	SATA 111.79 Hdd		

A. Create Array:

Press Enter on Create Array item, you will see the screen as shown below.

VIA Tech. VT8237 SATA RAID BIOS Ver 2.31						
 Auto Setup For Performance Array Mode RAID 0 (Striping) Select Disk Drives Block Size 64K Start Create Process 		the H VIA F1 ↑,↓ Ente	Create a RAID array with the hard disks attached to VIA RAID controller F1 : View Array/disk Status ↑,↓ : Move to next item Enter : Confirm the selection ESC : Exit			s
Channel	Drive Name	Array Name		Mode	Size(GB)	Status
Serial_Ch0 Master	ST3120026AS			SATA	111.79	Hdd
Serial_Ch1 Master	ST3120026AS			SATA	111.79	Hdd

Before create an Array, you have to set the array mode first. Select **Array Mode** and press **Enter**, use the arrow key to select the array mode. The options are: RAID 0 for performance, RAID 1 for data protection, and RAID SPAN for capacity.

VIA Tech. VT8237 SATA RAID BIOS Ver 2.31				
 RAID 0 for performance RAID 1 for data protection RAID SPAN for capacity 	Create a RAID array with the hard disks attached to VIA RAID controller F1 : View Array/disk Status ↑, ↓ : Move to next item Enter : Confirm the selection ESC : Exit			
Channel Drive Name Ar	rayName Mode Size(GB) Status			
Serial_Ch0 Master ST3120026AS	SATA 111.79 Hdd			
Serial_Ch1 Master ST3120026AS	SATA 111.79 Hdd			

After array mode is selected, there are two methods to create a disk array. One method is **Auto Setup** and the other one is **Select Disk Drives**. **Auto Setup** allows BIOS to select the disk drives and create arrays automatically, but it does not duplicate the mirroring drives even if the user selected Create and duplicate for RAID 1. It is recommended all disk drives are new ones when wanting to create an array. **Select Disk Drives** lets the user select the array drives by their requirements. Select the **Select Disk Drives** item and press **Enter**, use the arrow key to select the hard disk. The selected hard disk will be marked a star(*) signal.

VIA Tech. VT8237 SATA RAID BIOS Ver 2.31				
 Auto Setup For Performance Array Mode RAID 0 (Striping) Select Disk Drives Block Size 64K Start Create Process 	Create a RAID array with the hard disks attached to VIA RAID controller F1 : View Array/disk Status ↑, ↓ : Move to next item Enter : Confirm the selection ESC : Exit			
Channel Drive Name Arr	ayName Mode Size(GB) Status			
[*]Serial_Ch0 Master ST3120026AS	SATA 111.79 Stripe0			
[*]Serial_Ch1 Master ST3120026AS	SATA 111.79 Stripe1			

If you select a RAID 0 array, the block size of the array can also be selected. Use the arrow key to select Block Size and press **Enter**, then select a block size from the popup menu. The block size can be 4KB to 64KB.

VIA Tech. VT8237 SATA RAID BIOS Ver 2.31				
 Auto Setup For Perfort Array Mode RAID 0 (S Select Disk Drives Block Size 64K Start Create Process 	Create a RAID array with the hard disks attached to VIA RAID controller F1 : View Array/disk Status f,↓ : Move to next item Enter : Confirm the selection ESC : Exit			
Channel Drive Name	ArrayName Mode Size(GB) Status			
[*]Serial_Ch0 Master ST3120026AS	SATA 111.79 Stripe0			
[*]Serial_Ch1 Master ST3120026AS	SATA 111.79 Stripe1			

Use the arrow key to select Start Create Process and press Enter. A warning message will appear [The data on the selected disks will be destroied. Continue? (Y/N)], press Y to finish the creation, or press N to cancel the creation.

Important note: All existing contents in the hard drive will be destroyed after array creation.

B. Delete Array:

If you want to delete the Array, select **Delete Array** in the main menu and press **Enter**. The channel column will be activated. Select the member of an array that is to be deleted and press **Enter**. A warning message will show up, press **Y** to delete or press **N** to cancel.

VIA Tech. VT8237 SATA RAID BIOS Ver 2.31					
 Create Array Delete Array Create/Delete Spare Select Boot Array Serial Number View The selected array will be destoried. Are you sure? Continue? Press Y/N 	Delete a RAID array contain the hard disks attached to VIA RAID controller F1 : View Array/disk Status f, J : Move to next item Enter : Confirm the selection ESC : Exit				
Channel Drive Name Arr	ay Name Mode Size(GB) Status				
[*]Serial_Ch0 Master ST3120026AS	RRAY 0 SATA 111.79 Stripe0				
[*]Serial_Ch1 Master ST3120026AS A	RRAY 0 SATA 111.79 Stripe1				

Deleting a disk array will destroy all the data on the disk array except RAID 1 arrays. When a RAID is deleted, the data on these two hard disk drives will be reserved and become two normal disk drives.

C. Select Boot Array:

You can select a disk array as boot device if you want to boot operating system from an array. Boot disk array cannot be selected if the operating system does not boot from the disk array. Highlight the **Select Boot Array** item; press **Enter** and the channel column will be activated. Then highlight the target disk array and press **Enter**. Press **Esc** to go back to main menu. If you want to cancel the boot array, select the disk array that has a star(*) mark and press **Enter**, its boot setting will be canceled.

VIA Tech. VT8237 SATA RAID BIOS Ver 2.31					
 Create Array Delete Array Create/Delete Spare 	Set/Clear bootable array				
 Select Boot Array Serial Number View 	F1 : View Array/disk Status ↑,↓ : Move to next item Enter : Confirm the selection ESC : Exit				
Channel Drive Name Arr	ay Name Mode Size(GB) Status				
[*]Serial_Ch0 Master ST3120026AS	RRAY 0 SATA 111.79 Boot				
[*]Serial_Ch1 Master ST3120026AS A	RRAY 0 SATA 111.79 Boot				

D. Serial Number View:

Highlight **Serial Number View** and press **Enter**. Use arrow key to select a drive, the selected drive's serial number can be viewed in the last column. The serial number is assigned by the disk drive manufacturer.

VIA Teeh. VT8237 SATA RAID BIOS Ver 2.31					
 Create Array Delete Array Create/Delete Spare Select Boot Array Serial Number View 	View the serial number of hard disk, it is useful for identify same model disks F1 : View Array/disk Status ↑,↓ : Move to next item Enter : Confirm the selection ESC : Exit				
Channel Drive Name	ArrayName Mode Size(GB) Status				
Serial_Ch0 Master ST3120026AS	ARRAY 0 SATA 111.79 Stripe0				
Serial_Ch1 Master ST3120026AS	ARRAY 0 SATA 111.79 Stripe1				
Serial Number: 3JT354CP					

E. View Array Status:

Press the F1 key to show the array status on the lower screen. If there are no disk arrays then nothing will be displayed on the screen.

VIA Tech. VT8237 SATA RAID BIOS Ver 2.31				
Create Array Delete Array Create/Delete Spare Select Boot Array Serial Number View		Create a RAID array with the hard disks attached to VIA RAID controller F1 : View Array/disk Status ↑, ↓ : Move to next item Enter : Confirm the selection ESC : Exit		
Array Name A	rray Mode Blo	ock Size(GB) Size(GB)		
ARRAY 0 St	tripe 64	K 223.58		

Installing the RAID drivers

To install operating system onto a serial ATA hard disk successfully, you need to install the SATA controller driver during OS installation. Without the driver, the hard disk may not be recognized during the Windows setup process. First of all, copy the driver for the SATA controller from the motherboard driver CD-ROM to a floppy disk. See the instructions below about how to copy the driver in MS-DOS mode^(Note1). Prepare a startup disk that has CD-ROM support and a blank formatted floppy disk.

Step 1: Insert the prepared startup disk and motherboard driver CD-ROM in your system. Boot from the startup disk. Once at the A:\> prompt, change to the CD-ROM drive (example: D:\>). At the D:\> prompt, type the following two commands. Press ENTER after each command (Fig.1):

cd bootdrv menu

Step 2: When the controller menu (Fig.2) appears, remove the startup disk and insert the blank formatted disk. Select the controller driver by pressing the corresponding letter from the menu. Your system will then automatically zip and transfer this driver file to the floppy disk. Press 0 to exit when finished.







Step 3: After completing the steps, boot from the Windows installation disk to install the RAID drivers. Press F6 as soon as you see the "Press F6 if you need to install a third party SCSI or RAID driver" message, then supply serial ATA controller driver by this floppy disk. Follow the on-screen instructions to complete the installation.

(Each time you add a new hard drive to a RAID array, the RAID driver will have to be installed under Windows once for that hard drive. After that, the driver will not have to be installed.)

(Note 1) For users without a startup disk.

Use an alternative system and insert the GIGABYTE motherboard drive CD-ROM. From the CD-ROM drive (example: D:)) double click the **MENU.exe** file in the **BootDrv** folder. A command prompt window will open similar to that in Fig. 2.

(Note 2) If you wish to install 64-bit Windows Operating System, select F) 8237-XP64.

GA-8VM800M-775 Motherboard

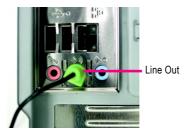
4-1-5 2 / 4 / 6 Channel Audio Function Introduction

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:

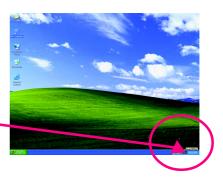
Connect the stereo speakers or earphone to "Line Out."



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



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-chan**nel mode for 4 speaker output check box.

Clear the **Only SURROUND-KIT** check box and press **OK**.

 4-channel mode for 4 speaker output
 KCY Audo Configuration
 Image: Consect Strategy

 SPEID Out
 Consect Strategy

 SPEID Out
 Speade Consect Strategy

 Sector Strategy
 Speade Consect Strategy

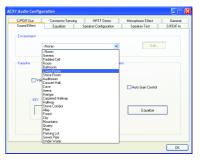
 Not of Scedes
 Speade Consect Strategy

 Interspect Strategy
 Speade Consect Strategy

 Sector Strategy
 Strategy

 Interspect Strate

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.



GA-8VM800M-775 Motherboard

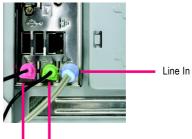
- 74 -

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.

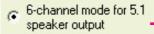




STEP 3:

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.**





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)

SURROUND-KIT access analog output to rear 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.



STEP 1:

Secure the metal bracket of the "Surround Kit" to the chassis back panel with a screw.



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



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.

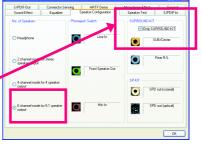


STEP 5:

On the AC97 Audio Configuration menu, click the **Speaker Configuration** tab and select the **6-chan**nel 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.

S/PDIF-Out	Connector Sensing	HRTF Demo	Microphone Effect	Genera
Sound Effect	Equalizer	Speaker Configuration	Speaker Test	S/PDIF-In
Environment				
	<none></none>	~	Edit	
	(None) Generic			
	Padded Cell			
Karacke	Room Bathroom		015	
	Bathroom Living Boom			
	Stone Boom			
Vo	Auditorium Concert Hall			
	Concert mail		Auto Bain Control	
	Alena		- Main clair control	
	Hangar Carpeted Hallway			
KEY	Halway			
	Stone Conidor			_
	Alley Forest		Equalizer	
	City Cites			_
	Mountains			
	Quany Plain			
	Parking Lot			
	Sevier Pipe			
	Under Water			

SPDIF Output Device (Optional Device)

A "SPDIF output" connector 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.

S REAL

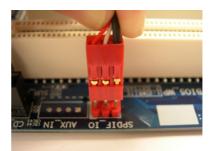
STEP 1:

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.



GA-8VM800M-775 Motherboard

- 78 -

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.

→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
- 3 beeps Base 64K memory failure
- 4 beeps Timer not operational
- 5 beeps Processor error
- 6 beeps 8042 gate A20 failure
- 7 beeps Processor exception interrupt error
- 8 beeps Display memory read/write failure
- 9 beeps ROM checksum error
- 10 beeps CMOS shutdown register read/write error
- 11 beeps Cache memory bad

- → AWARD BIOS Beep Codes
 - 1 short: System boots successfully 2 short: CMOS setting error 1 long 1 short: DRAM or M/B error 1 long 2 short: Monitor or display card error 1 long 3 short: Keyboard error 1 long 9 short: BIOS ROM error Continuous long beeps: DRAM error Continuous short beeps: Power error

GA-8VM800M-775 Motherboard	- 80 -	

- 81 -	Appendix

GA-8VM800M-775 Motherboard	- 82 -	

- 83 -	Appendix

GA-8VM800M-775 Motherboard	- 84 -	

- 85 -	Appendix

GA-8VM800M-775 Motherboard	- 86 -		



Taiwan (Headquarters)

GIGA-BYTE TECHNOLOGY CO., LTD.

Address: No.6, Bau Chiang Road, Hsin-Tien, Taipei 231, Taiwan

TEL: +886-2-8912-4888

FAX: +886-2-8912-4003

Tech. Support :

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

U.S.A.

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 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.de

Japan

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

• U.K.

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

GIGA-BYTE TECHNOLOGY B.V.

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.nl

China • NINGBO G.B.T. TECH. TRADING CO., LTD. Tech. Support : http://tw.giga-byte.com/TechSupport/ServiceCenter.htm Non-Tech. Support(Sales/Marketing): http://ggts.gjgabyte.com.tw/nontech.asp WEB address : http://www.gigabyte.com.cn Shanghai TEL:+86-021-63410999 FAX: +86-021-63410100 Beiiina TEL:+86-10-62102838 FAX: +86-10-62102848 Wuhan TEL:+86-27-87851061 FAX: +86-27-87851330 GuangZhou TEL:+86-20-87586074 FAX: +86-20-85517843 Chengdu TEL:+86-28-85236930 FAX: +86-28-85256822 Xian TEL:+86-29-85531943 FAX: +86-29-85539821 Shenvang TEL:+86-24-23960918 FAX: +86-24-23960918-809 Australia GIGABYTE TECHNOLOGY PTY. 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.giga-byte.com.au

• France

GIGABYTE TECHNOLOGY FRANCE S.A.R.L. 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.fr

Russia

Moscow Representative Office Of GIGA-BYTE Technology 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://www.gigabyte.ru Poland

Office of GIGA-BYTE TECHNOLOGY Co., Ltd. in POLAND 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.pl

Serbia & Montenegro

Representative Office Of GIGA-BYTE Technology Co., Ltd. in SERBIA & MONTENEGRO

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.co.yu

Czech Republic

Representative Office Of GIGA-BYTE Technology Co., Ltd. in CZECH REPUBLIC

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.cz

Romania

Representative Office Of GIGA-BYTE Technology Co., Ltd. in Romania

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.ro

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com