GA-K8VT800M

AMD Socket 754 Processor Motherboard

User's Manual

Rev. 1001 12ME-K8VT800M-1001

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Notice

Please do not remove any labels on motherboard, this may void the warranty of this motherboard.

Due to rapid change in technology, some of the specifications might be out of date before publication of this booklet.

The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information ontained herein.

Declaration of Conformity We, Manufacturer/Importer (full address)

G.B.T. Technology Träding GMbH Ausschlager Weg 41, 1F, 20537 Hamburg, Germany

declare that the product

(description of the apparatus, system, installation to which it refers)

Mother Board

GA-K8VT800M

is in conformity with

(reference to the specification under which conformity is declared)

in accordance with 89/336 EEC-EMC Directive

□ EN 55011	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM high frequency equipment	☐ EN 61000-3-2* ☑ EN 60555-2	Disturbances in supply systems cause by household appliances and similar electrical equipment "Harmonics"
☐ EN 55013	Limits and methods of measurement	☐ EN 61000-3-3*	Disturbances in supply systems cause
	of radio disturbance characteristics of broadcast receivers and associated equipment	☑ EN 60555-3	by household appliances and similar electrical equipment "Voltage fluctuations"
□ EN 55014	Limits and methods of measurement	☑ EN 50081-1	Generic emission standard Part 1:
	of radio disturbance characteristics of household electrical appliances,		Residual commercial and light industry
	portable tools and similar electrical	☑ EN 50082-1	Generic immunity standard Part 1:
	apparatus		Residual commercial and light industry
☐ EN 55015	Limits and methods of measurement	☐ EN 55081-2	Generic emission standard Part 2:
	of radio disturbance characteristics of fluorescent lamps and luminaries		Industrial environment
☐ EN 55020	Immunity from radio interference of	☐ EN 55082-2	Generic emission standard Part 2:
	broadcast receivers and associated equipment		Industrial environment
⊠ EN 55022	Limits and methods of measurement	☐ ENV 55104	Immunity requirements for household
	of radio disturbance characteristics of information technology equipment		appliances tools and similar apparatus
☐ DIN VDE 0855	Cabled distribution systems; Equipment	☐ EN50091-2	EMC requirements for uninterruptible
part 10	for receiving and/or distribution from		power systems (UPS)
□ part 12	sound and television signals	CE (EC conform	
☑ CE marking		(EC conform	nity marking)
	The manufacturer also declares		
	with the actual required safety s	THE COLUMN TWO THE PARTY AND ADDRESS OF THE PA	portion and the contract of th
□ EN 60065	Safety requirements for mains operated electronic and related apparatus for household and similar general use	□ EN 60950	Safety for information technology equipment including electrical bussiness equipment
□ EN 60335	Safety of household and similar electrical appliances	□ EN 50091-1	General and Safety requirments for uninterruptible power systems (UPS)
		Manufacturer/Importer	
			Signature: Timmy Huang

Signature: Simmy Huang
Date: Aug. 29, 2003 Name: Timmy Huang

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)



Responsible Party Name: G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street City of Industry, CA 91748

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: Motherboard
Model Number: GA-K8VT800M

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109 (a), Class B Digital Device

Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any inference received, including that may cause undesired operation.

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Aug. 29, 2003



Read Me First!

When you installing AGP card, please make sure the following notice is fully understood and practiced. If your AGP card has "AGP 4X/8X (1.5V) notch" (show below), please make sure your AGP card is AGP 4X/8X.



Caution: AGP 2X card is not supported by VIA K8VT800M. You might experience system unable to boot up normally. Please insert an AGP Pro 4X/8X card.

WARNING: Never run the processor without the heatsink properly and firmly attached. PERMANENT DAMAGE WILL RESULT!

Mise en garde: Ne faites jamais tourner le processeur sans que le dissipateur de chaleur soit fix correctement et fermement. UN DOMMAGE PERMANENT EN RÉSULTERA!

Achtung: Der Prozessor darf nur in Betrieb genommen werden, wenn der W rmeableiter ordnungsgem β und fest angebracht ist. DIES HAT EINEN PERMANENTEN SCHADEN ZUR FOLGE!

Advertencia: Nunca haga funcionar el procesador sin el disipador de calor instalado correcta y firmemente. ¡SE PRODUCIRÁ UN DAÑO PERMANENTE!

Aviso: Nunca execute o processador sem o dissipador de calor estar adequado e firmemente conectado. O RESULTADO SERÁ UM DANO PERMANENTE!

警告: 将散热板牢固地安装到处理器上之前,不要运行处理器。过热将永远损坏处理器!

警告: 將散熱器牢固地安裝到處理器上之前,不要運行處理器。過熱將永遠損壞處理器!

경고: 히트싱크를 제대로 또 단단히 부착시키지 않은 채 프로세서를 구동시키지 마십시오. 영구적 고장이 발생합니다!

警告: 永久的な損傷を防ぐため、ヒートシンクを正しくしっかりと取り付けるまでは、プロセッサを動作させないようにしてください。

Prepare your computer...

Computer motherboards and expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer.

- 1. Unplug your computer when working on the inside.
- Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case.
- Hold components by the edges and try not touch the IC chips, leads or connectors, or other components.
- 4. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.
- Ensure that the ATX power supply is switched off before you plug in or remove the ATX power connector on the motherboard.

Installing the motherboard to the chassis...

If the motherboard has mounting holes, but they don't line up with the holes on the base and there are no slots to attach the spacers, do not become alarmed you can still attach the spacers to the mounting holes. Just cut the bottom portion of the spacers (the spacer may be a little hard to cut off, so be careful of your hands). In this way you can still attach the motherboard to the base without worrying about short circuits. Sometimes you may need to use the plastic springs to isolate the screw from the motherboard PCB surface, because the circuit wire may be near by the hole. Be careful, don't let the screw contact any printed circuit write or parts on the PCB that are near the fixing hole, otherwise it may damage the board or cause board malfunctioning.

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Chapter 1 Introduction

1.1 Item Checklist

☑ The GA-K8VT800M motherboard	✓ IDE cable x 1 / Floppy cable x 1
☑ CD for motherboard driver & utility	✓ Serial ATA cable x 1
☑ GA-K8VT800M user's manual	☐ USB + IEEE1394 Cable x 1
☐ Quick PC Installation Guide	☐ Audio Combo Kit x 1
☐ GigaRAID manual	(SURROUND-Kit + SPDIF Out Kit)
☐ SATA RAID manual	☑ I/O Shield
☐ GC-SATA Card (optional)	□ DPVRM x 1
(Manual; SATA cable x 1; Power cable x 1)	

1.2 Features Summary

Form Factor	24.4cm x 24.4cm Micro ATX size form factor, 4 layers PCB
CPU	 Socket 754 for AMD Althlon™ 64 processor (K8)
	128K L1& 256K / 512K / 1M L2 cache on die
	800MHz FSB
	 Support core frequencies in excess of 1.6 GHz(2800+) and faster
Chipset	 VIA K8T800 H.T. Bus/AGP/VLINK Controller
	 VIA VT8237 Integrated Peripheral Controller (PSIPC)
Memory	2 184-pin DDR DIMM sockets
	 Supports DDR400/333/266/200 DIMM
	 Supports 128MB/256MB/512MB/1GB unbuffered DRAM
	 Supports up to 2GB DRAM (Max)
	 Supports only 2.5V DDR DIMM
I/O Control	• IT8705
Slots	1 AGP slot supports 8X/4X mode,
	AGP3.0 8X interface at 533MHz
	 3 PCI slots support 33MHz & PCI 2.2 compliant
On-Board IDE	2 IDE controllers provide IDE HDD/CD-ROM (IDE1, IDE2) with
	PIO, Bus Master(DMA33/ATA66/ATA100/ATA133) operation modes

to be continued...

Serial ATA	2 Serial ATA connectors in 150 MB/s operation mode
	Built-in VIA VT8237 (Note 1)
On-Board Peripherals	 1 Floppy port supports 2 FDD with 360K, 720K,1.2M, 1.44M and
	2.88M bytes
	1 Parallel port supports Normal/EPP/ECP mode
	 2 Serial ports (COMA & COMB)
	• 8 x USB 2.0/1.1 ports
	1 IrDA connector for IR
	1 Front Audio connector
Hardware Monitor	CPU/System fan revolution detect
	CPU temperature detect
	CPU warning temperature
	System voltage detect
	CPU/System fan fail warning
	Thermal shutdown function
On-Board LAN	 Built-in RTL8100C (10/100 Mbit)
	• 1 RJ45 port
On-Board Sound	ALC655 CODEC
	Supports Jack Sensing function
	• Line Out / 2 front speaker
	 Line In / 2 rear speaker (by s/w switch)
	 Mic In / center & subwoofer (by s/w switch)
	SPDIF In / Out
	CD In / AUX In / Game port
On-Board SATA RAID	Built-in VIA VT8237
	 Supports disk striping (RAID 0) or disk mirroring (RAID 1)
	 Supports UDMA up to 150 MB/sec
	Up to 2 SATA devices
PS/2 Connector	PS/2 Keyboard interface and PS/2 Mouse interface
BIOS	Licensed AWARD BIOS
	Supports Q-Flash

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

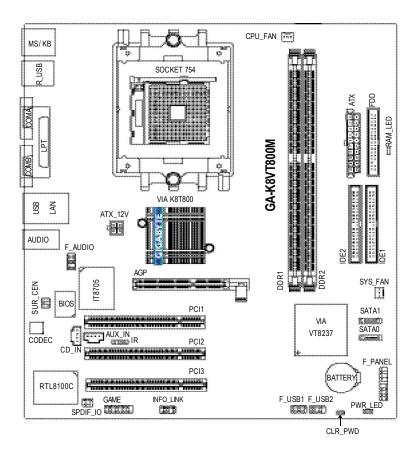
to be continued...

Additional Features	 PS/2 Keyboard password power on
	 PS/2 Mouse power on
	 STR(Suspend-To-RAM)
	AC Recovery
	 USB KB/Mouse wake up from S3
	 Poly fuse for keyboard over-current protection
	 Supports Thermal Shutdown function
	Supports @BIOS
	 Supports EasyTune 4
Overclocking	Over Clock (CPU/DDR/AGP/PCI) by BIOS

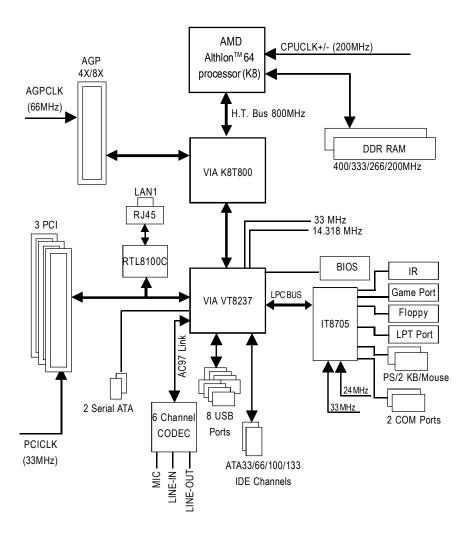


Please set the CPU host frequency in accordance with your processor's specifications. We don't recommend you to set the system bus frequency over the CPU's specification because these specific bus frequencies are not the standard specifications for CPU, chipset and most of the peripherals. Whether your system can run under these specific bus frequencies properly will depend on your hardware configurations, including CPU, Chipsets, SDRAM, Cards...etc.

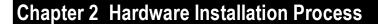
GA-K8VT800M Motherboard Layout



Block Diagram

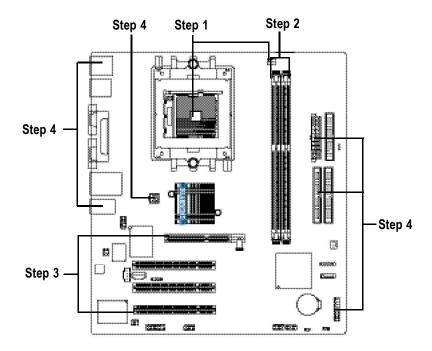


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To set up your computer, you must complete the following steps:

- Step 1 Install the Central Processing Unit (CPU)
- Step 2 Install memory modules
- Step 3 Install expansion cards
- Step 4 Connect ribbon cables, cabinet wires, and power supply



Congratulations! You have accomplished the hardware installation!

Turn on the power supply or connect the power cable to the power outlet. Continue with the BIOS/softwareinstallation.







Before installing the processor and cooling fan, adhere to the following warning:



- The processor will overheat without the heatsink and/or fan, resulting in permanent irreparable damage.
- 2. Never force the processor into the socket.
- 3. Apply thermal grease between the processor and cooling fan.
- 4. Please make sure the CPU type is supported by the motherboard.
- If you do not match the CPU socket Pin 1 and CPU cut edge well, it will cause improper installation. Please change the insert orientation. Please use AMD approved cooling fan.

The installation of the processor and cooling fan is performed in four main steps:

- Step 1-1. Processor insertion
- Step 1-2. Applying thermal grease
- Step 1-3. Cooling fan attachment
- Step 1-4. Connecting processor fan power

Step1-1. First, check the processor pins to see that none are bent. Move the socket lever to the unlocked position as shown in Figure 1 & Figure 2.(90° to the plane of the motherboard) prior to inserting the processor. The A1 pin location is designated on the processor by a copper triangle that matches up to a triangle on the socket as shown in Figure 3. Align the processor to the socket and gently lower it into place. Do not force the processor into the socket.

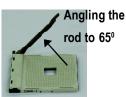


Figure 1.Angling the rod to 65-degree maybe feel a kind of tight, and then continue pull the rod to 90-degree when a noise "cough" made.

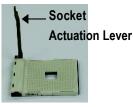


Figure 2.Pull the rod to the 90-degree directly.

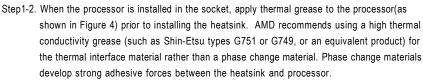


Figure 3. A1 pin location on the Socket and Processor. Move the socket lever to the locked position while holding pressure on the center of the processor.

GA-K8VT800M Motherboard







Removing the heatsink under such conditions can cause the processor to be removed from the socket without moving the socket lever to the unlocked position and then damage the processor pins or socket contacts.

** We recommend you to apply the thermal tape to provide better heat conduction between your CPU and heatsink. (The CPU cooling fan might stick to the CPU due to the hardening of the thermal paste. During this condition if you try to remove the cooling fan, you might pull the processor out of the CPU socket alone with the cooling fan, and might damage the processor. To avoid this from happening, we suggest you to either use thermal tape instead of thermal paste, or remove the cooling fan with extreme caution.)



Figure 4. Application of Thermal Grease to the processor.

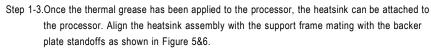






Figure 5&6 Alignment of Heatsink Assembly with Standoffs

Step 1-4. Connect the fan power wires to the header on the motherboard as shown in Figure 7.



Figure 7. Connecting the Fan Power Wires





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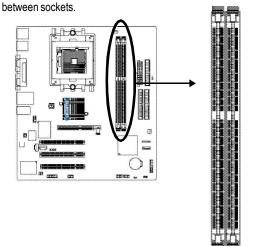


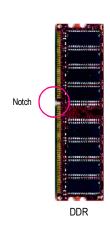


Before installing the memory modules, adhere to the following warning:

- 1. When DIMM LED is ON, do not install / remove DIMM from socket.
- 2. Please note that the DIMM module can only fit in one direction due to the one notch. Wrong orientation will cause improper installation. Please change the insert orientation.

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





Total Memory Size Per Chip Select

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Device Used on DIMMs	Size Per CS	Comments
64 Mbit (2Mx8-bitsx4 banks)	64 Mbyte	
64 Mbit (1Mx16-bitsx4 banks)	32 Mbyte	
128 Mbit(4Mx8-bitsx4 banks)	128 Mbyte	
128 Mbit(2Mx16-bitsx4 banks)	64 Mbyte	
256 Mbit(8Mx8-bitsx4 banks)	256 Mbyte	
256 Mbit(4Mx16x4 banks)	128 Mbyte	
512 Mbit(16Mx8-bitsx4 banks)	512 Mbyte	
512 Mbit(8Mx16-bitsx4 banks)	256 Mbyte	
1 Gbit(32Mx8-bitsx4 banks)	1 Gbyte	
1 Gbit(16Mx16-bitsx4 banks)	512 Mbyte	

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 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.



 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.

DDR Introduction

Established on the existing SDRAM infrastructure, DDR (Double Data Rate) memory is a high performance and cost-effective solution that allows easy adoption for memory vendors, OEMs, and system integrators.

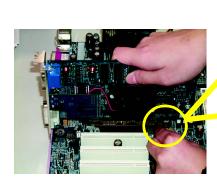
DDR memory is a great evolutionary solution for the PC industry that builds on the existing SDRAM architecture, yet make the awesome advances in solving the system performance bottleneck by doubling the memory bandwidth. Nowadays, with the highest bandwidth of 3.2GB/s of DDR400 memory and complete line of DDR400/333/266/200 memory solutions, DDR memory is the best choice for building high performance and low latency DRAM subsystem that are suitable for servers, workstations, and full range of desktop PCs.







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





AGP Card

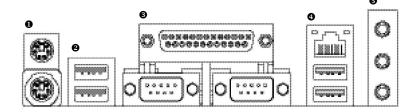
Please carefully pull out the small white-drawable bar at the end of the AGP slot when you try to install / uninstall the AGP card. Please align the AGP card to the onboard AGP slot and press firmly down on the slot. Make sure your AGP card is locked by the small white-drawable bar.





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Step 4: Connect ribbon cables, cabinet wires and power supply Step 4-1: I/O Back Panel Introduction



PS/2 Keyboard and PS/2 Mouse Connector



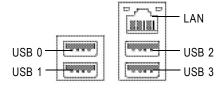
PS/2 Mouse Connector (6 pin Female)



PS/2 Keyboard Connector (6 pin Female)

➤ This connector supports standard PS/2 keyboard and PS/2 mouse.

2/3 USB/LAN Connector

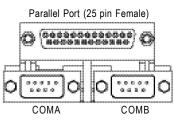


- ➤ Before you connect your device(s) into USB connector(s), please make sure your device (s) such as USB keyboard,mouse, scanner, zip, speaker...etc. Have a standard USB interface. Also make sure your OS supports USB controller. If your OS does not support USB controller, please contact OS vendor for possible patch or driver upgrade. For more information please contact your OS or device (s) vendors.
- LAN connector is fast Ethernet with 10/100 Mbps speed.





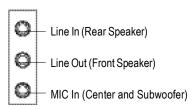




Serial Port (9 pin Male)

➤ This connector supports 2 standard COM ports and 1 Parallel port. Device like printer can be connected to Parallel port; mouse and modem etc. can be connected to Serial ports.

Audio Connectors



After install onboard audio driver, you may connect speaker to Line Out jack, microphone to MIC In jack. Device like CD-ROM,walkman etc. can be connected to Line-In jack.

Please note:

You are able to use 2-/4-/6-channel audio feature by S/W selection.

If you want to enable 6-channel function, you have 2 choose for hardware connection.

Method1:

Connect "Front Speaker" to "Line Out"

Connect "Rear Speaker" to "Line In"

Connect "Center and Subwoofer" to "MIC Out ".

Method2:

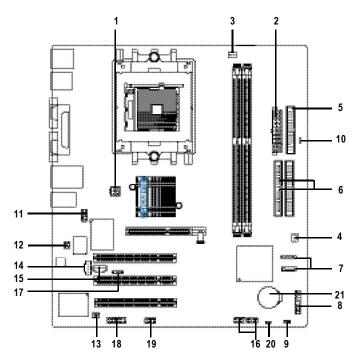
You can refer to page 30, and contact your nearest dealer for optional SUR_CEN cable.

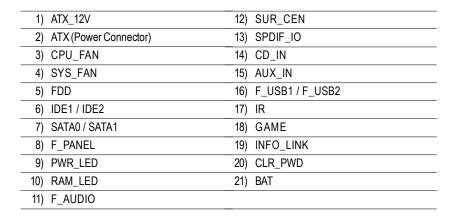


If you want the detail information for 2-/4-/6-channel audio setup installation, please refer to page 68.





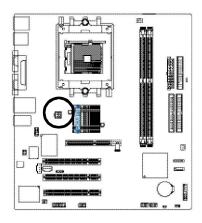








This connector (ATX_12V) supplies the CPU operation voltage (Vcore). If this "ATX_12V connector" is not connected, system cannot boot.



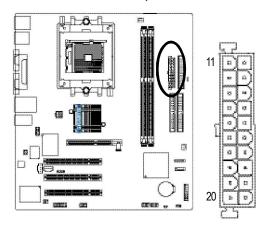
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Pin No.	Definition
1	GND
2	GND
3	+12V
4	+12V

9

2) ATX (ATX Power Connector)

AC power cord should only be connected to your power supply unit after ATX power cable and other related devices are firmly connected to the motherboard.

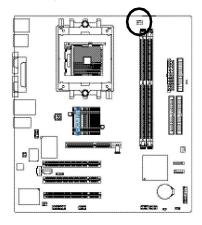


Pin No.	Definition
1	3.3V
2	3.3V
3	GND
4	VCC
5	GND
6	VCC
7	GND
8	Power Good
9	5V SB (stand by +5V)
10	+12V
11	3.3V
12	-12V
13	GND
14	PS_ON(soft on/off)
15	GND
16	GND
17	GND
18	-5V
19	VCC
20	VCC

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Please note, a proper installation of the CPU cooler is essential to prevent the CPU from running under abnormal condition or damaged by overheating. The CPU fan connector supports Max. current up to 600 mA.



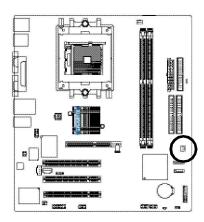


Pin No.	Definition
1	GND
2	+12V
3	Sense

-

4) SYS_FAN (System Fan Connector)

This connector allows you to link with the cooling fan on the system case to lower the system temperature.



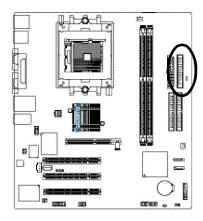


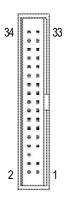
Pin No.	Definition
1	GND
2	+12V
3	Sense



Please connect the floppy drive ribbon cables to FDD. It supports 360K, 1.2M, 720K, 1.44M and 2.88M bytes floppy disk types.

The red stripe of the ribbon cable must be the same side with the Pin1.





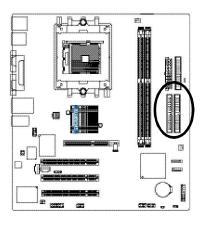
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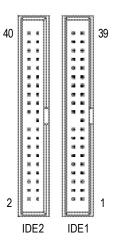
6) IDE1 / IDE2 (IDE1 / IDE2 Connector)

Important Notice:

Please connect first hard disk to IDE1 and connect CD-ROM to IDE2.

The red stripe of the ribbon cable must be the same side with the Pin1.

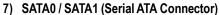




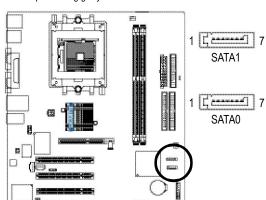
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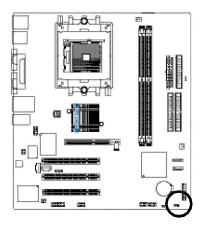
You can connect the Serial ATA device to this connector, it provides you high speed transfer rates (150MB/sec). If you wish to use RAID function, please use it in unity with BIOS and install the correct driver to have proper operation. For details, please refer to the "VT8237_SATA_Manual.pdf" at "http:\\www.gigabyte.com.tw".



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

8) PWR_LED

PWR_LED is connect with the system power indicator to indicate whether the system is on/off. It will blink when the system enters suspend mode. If you use dual color LED, power LED will turn to another color.

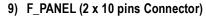


1 000

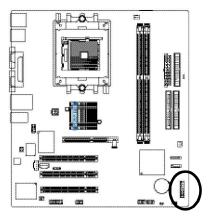
Pin No.	Definition
1	MPD+
2	MPD-
3	MPD-

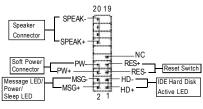






Please connect the power LED, PC speaker, reset switch and power switch etc. of your chassis front panel to the F_PANEL connector according to the pin assignment above.





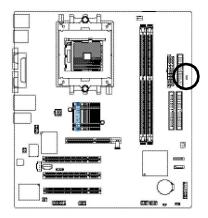
α	9
Q	σ

HD (IDE Hard Disk Active LED)	Pin 1: LED anode(+)
(Blue)	Pin 2: LED cathode(-)
SPK (Speaker Connector)	Pin 1: VCC(+)
(Amber)	Pin 2- Pin 3: NC
	Pin 4: Data(-)
RES (Reset Switch)	Open: Normal Operation
(Green)	Close: Reset Hardware System
PW (Soft Power Connector)	Open: Normal Operation
(Red)	Close: Power On/Off
MSG(Message LED/ Power/ Sleep LED)	Pin 1: LED anode(+)
(Yellow)	Pin 2: LED cathode(-)
NC (Purple)	NC



10) RAM_LED

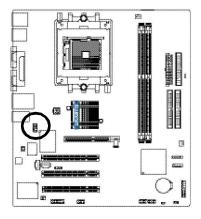
Do not remove memory modules while RAM_LED is on. It might cause short or other unexpected damages due to the stand by voltage. Remove memory modules only when AC power cord is disconnected





11) F_AUDIO (Front Audio Connector)

If you want to use Front Audio connector, you must remove 5-6, 9-10 Jumper. In order to utilize the front audio header, your chassis must have front audio connector. Also 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 connector, please contact your dealer. Please note, you can have the alternative of using front audio connector or of using rear audio connector to play sound.





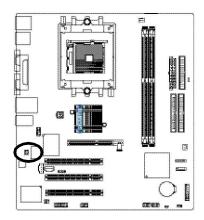
Pin No.	Definition
1	MIC
2	GND
3	REF
4	Power
5	Front Audio (R)
6	Rear Audio (R)
7	Reserved
8	No Pin
9	Front Audio (L)
10	Rear Audio (L)







Please contact your nearest dealer for optional SUR_CEN cable.

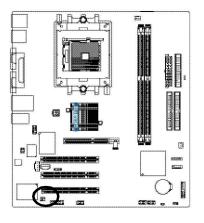




Pin No.	Definition
1	SUR OUTL
2	SUROUTR
3	GND
4	No Pin
5	CENTER_OUT
6	BASS_OUT

13) SPDIF_IO (SPDIF In / Out Connector)

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





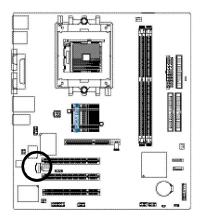
Pin No.	Definition
1	VCC
2	No Pin
3	SPDIF
4	SPDIFI
5	GND
6	GND

Ψ





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



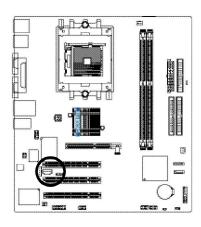


Pin No.	Definition
1	CD-L
2	GND
3	GND
4	CD-R



15) AUX_IN (AUX In Connector)

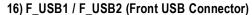
Connect other device (such as PCI TV Tunner audio out) to the connector.



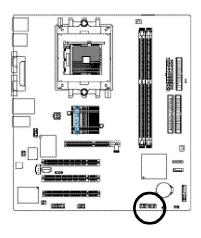


Pin No.	Definition
1	AUX-L
2	GND
3	GND
4	AUX-R





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.

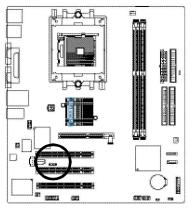


2	10
1	9

Pin No.	Definition
1	Power
2	Power
3	USB Dx-
4	USB Dy-
5	USB Dx+
6	USB Dy+
7	GND
8	GND
9	No Pin
10	NC

17) IR

Make sure the pin 1 on the IR device is aling with pin one the connector. To enable the IR function on the board, you are required to purchase an option IR module. Be careful with the polarity of the IR/CIR or IR connector. Check the pin assignment carefully while you connect the IR cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional IR cable, please contact your local dealer.





Pin No.	Definition
1	VCC(+5V)
2	No Pin
3	IR Data Input
4	GND
5	IR Data Output

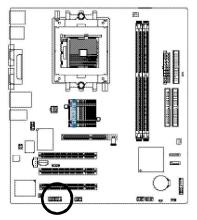
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18) GAME (Game Connector)

This connector supports joystick, MIDI keyboard and other relate audio devices. Check the pin assignment while you connect the game cables. Please contact your nearest dealer for optional game cables.



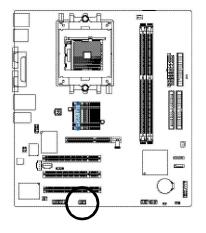
2						16
	•		•	•	٠	Π
			۳	•		
1						15

Pin No.	Definition
1	VCC
2	GRX1_R
3	GND
4	GPSA2
5	VCC
6	GPX2_R
7	GPY2_R
8	MSI_R
9	GPSA1
10	GND
11	GPY1_R
12	VCC
13	GPSB1
14	MSO_R
15	GPSB2
16	No Pin



19) INFO_LINK

This connector allows you to connect some external devices to provide you extra function. Check the pin assignment while you connect the external device cable. Please contact your nearest dealer for optional external device cable.





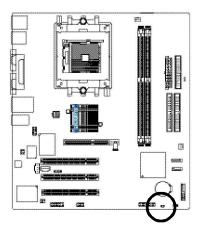
Pin No.	Definition
1	SMBCLK
2	VCC
3	SMBDATA
4	GPIO
5	GND
6	GND
7	No Pin
8	NC
9	+12V
10	+12V





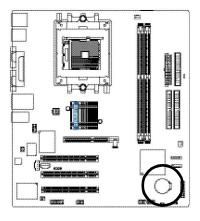
20) CLR_PWD

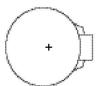
When Jumper is set to "open" and system is restarted, the password that is set will be cleared. On the contrary when Jumper is set to "close", the current status remains.



- Open: Clear Password 1 🖭
- 1 33 Close: Normal (Default)

21) BATTERY





CAUTION

- 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.
- 2. Remove the battery, wait for 30 second.
- 3. Re-install the battery.
- 4. Plug the power cord and turn ON the computer.

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Chapter 3 BIOS Setup

BIOS Setup is an overview of the BIOS Setup Program. The program that allows users to modify the basic system configuration. This type of information is stored in battery-backed CMOS RAM so that it retains the Setup information when the power is turned off.

ENTERING SETUP

Powering ON the computer and pressing immediately will allow you to enter Setup. If you require more advanced BIOS settings, please go to "Advanced BIOS" setting menu. To enter Advanced BIOS setting menu, press "Ctrl+F1" key on the BIOS screen.

CONTROL KEYS

<†>	Move to previous item
<1>	Move to next item
<+>	Move to the item in the left hand
< →>	Move to the item in the right hand
<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
<+/PgUp>	Increase the numeric value or make changes
<-/PgDn>	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
<f3></f3>	Reserved
<f4></f4>	Reserved
<f5></f5>	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu
<f6></f6>	Load the file-safe default CMOS value from BIOS default table
<f7></f7>	Load the Optimized Defaults
<f8></f8>	Q-Flash utility
<f9></f9>	System Information
<f10></f10>	Save all the CMOS changes, only for Main Menu



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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 Main Menu (For example: BIOS Ver.: F1)

Once you enterAward BIOS CMOS Setup Utility, the Main Menu (Figure 1) will appear on the screen. The Main Menu allows you to select from eight setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

CMOS Setup Utility-Copy right (C) 1984-2003 Award Software

► Standard CMOS Features	Load Fail-Safe Defaults	
► Adv anced BIOS Features	Load Optimized Defaults	
Integrated Peripherals	Set Supervisor Password	
▶ Pow er 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		

Figure 1: Main Menu



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

Standard CMOS Features

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

Advanced BIOS Features

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

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Integrated Peripherals

This setup page includes all onboard peripherals.

Power Management Setup

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

PnP/PCI Configurations

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

PC Health Status

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

Frequency/Voltage Control

This setup page is control CPU's clock and frequency ratio.

Load Fail-Safe Defaults

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

Load Optimized Defaults

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

Set Supervis or 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.

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Standard CMOS Features

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Standard CMOS Features

Date (mm:dd:yy)	Wed, Jul 16 2003	Item Help
Time (hh:mm:ss)	22:31:24	Menu Level ▶
		Change the day, mont
▶IDE Primary Master	[None]	y ear
▶IDE Primary Slave	[None]	
▶IDE Secondary Master	[None]	<week></week>
▶IDE Secondary Slave	[None]	Sun. to Sat.
Drive A	[1.44M, 3.5"]	<month></month>
Driv e B	[None]	Jan. to Dec.
Floppy 3 Mode Support	[Disabled]	
		<day></day>
Halt On	[All, But Key board]	1 to 31 (or maximum
		allowed in the month)
Base Memory	640K	
Extended Memory	130048K	<year></year>
=/: (0):1000		1

Figure 2: Standard CMOS Features

F5:Previous Values 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)

▶ Year The year, from 1999 through 2098

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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 Primary Master, Slave / IDE Secondary Master, Slave

The category identifies the types of hard disk from driveC to F that has been installed in the computer. There are two types: auto type, and manual type. Manual type is user-definable; Auto type which will automatically detect HDD type.

Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category.

If you select User Type, related information will be asked to enter to the following items. Enter the information directly from the key board and press <Enter>. Such information should be provided in the documentation form your hard disk vendor or the system manufacturer.

CYLS.	Number of cylinders
→ HEADS	Number of heads
▶ PRECOMP	Write precomp
▶ LANDZONE	Landing zone
SECTORS Number of sectors	

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

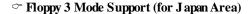
Trive A / Drive B

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

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

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

Talt on

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

NO Errors The system boot will not stop for any error that may be detected

and you will be prompted.

→ All Errors Whenever the BIOS detects a non-fatal error the system will be stopped.

▶ All, But Key board The system boot will not stop for a key board 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 (PowerOn Self Test) of the BIOS.

Base Memory

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 512 K for systems with 512 K memory installed on the motherboard, or 640 K for systems with 640 K 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.

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Advanced BIOS Features

First Boot Device	[Floppy]	Item Help
Second Boot Device	[HDD-0]	Menu Level ▶
Third Boot Device	[CDROM]	Select Boot Device
Password Check	[Setup]	priority
		[Floppy]
		Boot from floppy
		[LS120]
		Boot from LS120
		[HDD-0]
		Boot from First HDD
		[HDD-1]
		Boot from second HDD
↑↓→←: Move Enter:Sele	ct +/-/PU/PD:Value F10:Save	ESC:Exit F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults	F7:Optimized Defaults

Figure 3: Advanced BIOS Features

☐ First / Second / Third Boot Device

▶ Floppy	Select your boot device priority by Floppy.
▶ LS120	Select your boot device priority by LS120.
▶ HDD-0~3	Select your boot device priority by HDD-0~3.
₩ SCSI	Select your boot device priority by SCSI.
▶ 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.
▶ LAN	Select your boot device priority by LAN.
▶ Disabled	Select your boot device priority by Disabled.

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▶ 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)

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Integrated Peripherals

	integrated Peripherals	
IDE DMA transfer access	[Enabled]	Item Help
On-Chip IDE Channel 0	[Enabled]	Menu Level ▶
On-Chip IDE Channel 1	[Enabled]	[Auto]
Onchip Serial ATA	[Enabled]	Auto-detect IDE
AC97 Audio	[Auto]	cable type
USB 1.1 Controller	[Enabled]	
USB 2.0 Controller	[Enabled]	[ATA66/100/133]
USB Device Function	[Disabled]	Set Conductor cable
USB Key board Support	[Disabled]	to ATA66/100/133(80
USB Mouse Support	[Disabled]	-pins)
Onboard H/W LAN	[Enabled]	
Onboard H/W ATA / RAID	[Enabled]	[ATA33]
Onboard LAN Boot ROM	[Disabled]	Set Conductor cable
Onboard FDC Controller	[Enabled]	to ATA33(40-pins)
Onboard Serial Port 1	[3F8/IRQ4]	
Onboard Serial Port 2	[2F8/IRQ3]	
UART Mode Select	[Normal]	
x UR2 Duplex Mode	Half	
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[SPP]	
Game Port Address	[201]	
Midi Port Address	[330]	
Midi Port IRQ	[10]	
Allow Many Fate O.L.	//DI//DDA/-la- 540.0	F00.F14 F4.0 m and 111
↑↓→←: Move Enter: Select		ESC:Exit F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults	F7:Ontimized Defaults

F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults

Figure 4: Integrated Peripherals

□ IDEDMA transfter access

▶ Enabled Enable IDE DMA transfer access. (Default value)

Disable IDE DMA transfer access. **▶** Disabled

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

▶ Disabled Disable onboard 1st channel IDE port.

○ On-Chip IDE Channel 1

→ Enabled Enable onboard 2nd channel IDE port. (Default value)

Disabled Disable onboard 2nd channel IDE port.

On-chip SATA

▶ Disabled Disable SATA controller.

→ Auto When there is no device to be plugged in IDE1 or IDE2, SATA controller will

remap to IDE controller.

▶ Enabled Set SATA Mode manually. (Default Value)

← AC97 Audio

→ Auto Enable onboard AC'97 audio function. (Default Value)

▶ Disabled Disable this function.

♡ USB 1.1 Controller

If you are not using the onboard USB function, please set at Disabled.

► Enabled Enable USB 1.1 Controller. (Default value)

Disable USB 1.1 Controller.

□ USB 2.0 Controller

If you are not using the onboard USB function, please set at Disabled.

➤ Enabled Enable USB 2.0 Controller. (Default value)

▶ Disabled Disable USB 2.0 Controller.

□ USB Device Function

If you are not using the onboard USB function, please set at Disabled.

▶ Enabled Enable USB Device Function. (Default value)

▶ Disabled Disable USB Device Function.

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▽ USB Keyboard Support

When USB key board is installed, please set at Enabled.

▶Enabled Enable USB Key board Support.

Disabled Disable USB Key board Support. (Default value)

← USB Mouse Support

When USB mouse is installed, please set at Enabled.

▶ Enabled Enable USB Mouse Support.

▶ Disabled Disable USB Mouse Support. (Default value)

○ Onboard H/W LAN

► Enabled Enable onboard H/W LAN function. (Default Value)

▶ Disabled Disable this function.

Onboard H/W ATA / RAID

▶ Enabled Enable onboard H/WATA/RAID function. (Default value)

▶ Disabled Disable this function.

TO Onboard LAN Boot ROM

▶ Enabled Enable onboard LAN boot ROM. (Default Value)

Disabled Disable this function.

TOO Onboard EDC Controller

▶ Enabled Enable onboard FDC Controller. (Default value)

▶ Disabled Disable onboard FDC Controller.

Tonboard Serial Port 1

➤ Auto BIOS will automatically setup the port 1 address.

▶ 3F8/IRQ4 Enable onboard Serial port 1 and address is 3F8. (Default value)

▶ 2F8/IRQ3 Enable onboard Serial port 1 and address is 2F8.
 ▶ 3E8/IRQ4 Enable onboard Serial port 1 and address is 3E8.
 ▶ 2E8/IRQ3 Enable onboard Serial port 1 and address is 2E8.

Disabled Disable onboard Serial port 1.

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Auto BIOS will automatically setup the port 2 address.
 → 3F8/IRQ4 Enable onboard Serial port 2 and address is 3F8.

⇒ 2F8/IRQ3 Enable onboard Serial port 2 and address is 2F8. (Default value)

→ 3E8/IRQ4 Enable onboard Serial port 2 and address is 3E8.
 → 2E8/IRQ3 Enable onboard Serial port 2 and address is 2E8.

Disabled Disable onboard Serial port 2.

♡ UART Mode Select

This item allows you to determine which Infra Red(IR) function of Onboard I/O chip

Normal Set onboard I/O chip UART to Normal Mode. (Default Value)

▶IrDA Set onboard I/O chip UART to IrDA Mode.
▶ASKIR Set onboard I/O chip UART to ASKIR Mode.

□ UR2 Dupl ex Mode

Full IR Function Duplex Full.

→ Half IR Function Duplex Half. (Default Value)

Onboard Parallel 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.

Disabled Disable onboard LPT port.

▶ 3BC/IRQ7 Enable onboard LPT port and address is 3BC/IRQ7.

Parallel Port Mode

▶ SPP Using Parallel port as Standard Parallel Port. (Default Value)

▶EPP Using Parallel port as Enhanced Parallel Port.▶ECP Using Parallel port as Extended Capabilities Port.

▶ECP+EPP Using Parallel port as ECP & EPP mode.

← Game Port Address

▶ 201 Set Game Port Address to 201. (Default Value)

➤ 209 Set Game Port Address to 209.

▶ Disabled Disable this function.

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∽ Midi Port Address

▶290 Set Midi Port Address to 290.▶300 Set Midi Port Address to 300.

▶ 330 Set Midi Port Address to 330.(Default Value)

▶ Disabled Disable this function.

[™] Midi Port IRQ

▶5 Set Midi Port IRQ to 5.

▶10 Set Midi Port IRQ to 10. (Default Value)

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Power Management Setup

ACPI Suspend Type	[S1(POS)]	Item Help
x USB Device Wake-Up From S3	[Disabled]	Menu Level ▶
Soft-Off by PWRBTTN	[Instant-Off]	[S1]
AC Back Function	[Soft-Off]	
Key board Pow er On	[Disabled]	
Mouse Power On	[Disabled]	
PME Event Wake Up	[Enabled]	Set suspend type to
ModemRing Resume	[Enabled]	Power On Suspend under
Resume by Alarm	[Disabled]	ACPI OS
x Date (of Month) Alarm	Ev ery day	
x Time (hh:mm:ss) Alarm	0:0:0	[S3]
		ACPI OS
↑↓→←: Move Enter:Select	+/-/PU/PD:Value F10:Save	ESC:Exit F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults	F7:Optimized Defaults

Figure 5: Power Management Setup

▶ S1(POS) Set ACPI suspend type to S1. (Default Value)

► S3(STR) Set ACPI suspend type to S3.

❖ USB Device Wake-up From S3

▶ Disabled Disable USB Dev Wakeup From S3. (Default Value)

▶ Enabled Enable USB Dev Wakeup From S3.

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▶ 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 System power on depends on the status before AC lost. **▶** Soft-Off Always in Off state when AC back. (Default value) ▶ Full-On Always power on the system when AC back.

▽ Keyboard Power On

▶ Passw ord Enter from 1 to 5 characters to set the Key board Power On Password.

▶ Disabled Disabled this function. (Default value)

▶ Key board 98 If your key board have "POWER Key" button, you can press the key to

power on your system.

∽ Mouse Power On

▶ Disabled Disabled this function. (Default value)

▶ Double Click Set mouse power on by double click mouse bottom.

PME Event Wake Up

▶ Disabled Disable this function.

▶ Enabled Enable PME Event Wake up. (Default Value)

→ ModemRingResume

▶ Disabled Disable Modem Ring On / Wake On LAN function.

▶ Enabled The modem ring / LAN wake up will bring the system out of soft-off or

suspend state if this option is set "Enabled". (Default Value)

- 50 -BIOS Setup





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

▶ Disabled Disable this function. (Default Value)

▶ Enabled Enable alarm function to POWER ON system.

If RTC Alarm Lead To Power On is Enabled.

Date (of Month) Alarm: Every day, 1~31

Time (hh: mm: ss) Alarm : (0~23) : (0~59) : (0~59)





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PnP/PCI Configurations

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PnP/PCI Configurations

PCI 1 IRQ Assignment	[Auto]	Item Help
PCI 2 IRQ Assignment	[Auto]	Menu Level ▶
PCI 3 IRQ Assignment	[Auto]	
		Device(s) using this
		INT:
		Display Cntrlr
		-BUS 1 Dev 0 Func 0
↑↓→←: Move Enter:Select	+/-/PU/PD:Value F10:Save	ESC:Exit F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults	F7:Optimized Defaults

Figure 6: PnP/PCI Configurations

PCI 1 IRQ Assignment

Auto assign IRQ to PCI1. (Default value) Auto **→** 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1/5.

→ PCI2 IRQ Assignment

>> Auto Auto assign IRQ to PCI2. (Default value) **▶** 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 2.

○ PCI3 IRQ Assignment

>> Auto Auto assign IRQ to PCI3. (Default value) **▶** 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 3.



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PC Health Status

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PC Health Status

Vcore	OK	Item Help
DDR25V	OK	Menu Level ▶
+3.3V	OK	[Disabled]
+12V	OK	Don't reset case
Current CPU Temperature	33°C	open status
Current CPU FAN Speed	4440 RPM	[Enabled]
Current SYSTEM FAN Speed	0 RPM	Clear case open
CPU FAN Fail Warning	[Disabled]	status at next boot
SYSTEM FAN Fail Warning	[Disabled]	
↑↓→←: Move Enter:Select +/-/PU/I	PD:Value F10:Save ESC	Exit F1:General Help
F5:Previous Values F6:Fail	-Safe Defaults F7:Optimize	d Defaults

Figure 7: PC Health Status

▽ Vcore / DDR25V / +3.3 V / +12V

→ Detect system's voltage status automatically.

Current CPU Temperature

▶ Detect CPU temperature automatically.

♡ Current CPU/SYSTEM FAN Speed (RPM)

▶ Detect CPU/System Fan speed status automatically.

○ CPU FAN Fail Warning

▶ Disabled Fan Warning function disable. (Default value)
 ▶ Enabled Enable FAN warning alarm when FAN stops.

⋄ SYSTEM FAN Fail Warning

▶ Disabled Fan Warning function disable. (Default value)▶ Enabled Enable FAN warning alarm when FAN stops.

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Frequency/Voltage Control

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Frequency/Voltage Control

CPU Host Clock Control	[Disabled]	Item Help
x CPU Host Frequency (Mhz)	200	Menu Level ▶
PCI/AGP Frequency (Mhz)	33/66	
↑↓→←: Move Enter:Select	+/-/PU/PD:Value F10:Save E	ESC:Exit F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults F7:Opt	timized Defaults

Figure 8: Frequency/Voltage Control

CPU Host Clock Control

Note: If system hangs up before enter CMOS setup utility, wait for 20 sec for times out reboot. When time out occur, system will reset and run at CPU default Host clock at next boot.

▶ Disabled Disable CPU Host Clock Control.(Default value)

▶ Enabled Enable CPU Host Clock Control.

CPU Host Frequency (Mhz)

▶ 200MHz ~455MHz Set CPU Host Frequency from 200 MHz to 455MHz.

PCI/AGP Frequency(Mhz)

The values depend on Fixed PCI/AGP Frequency.

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Load Fail-Safe Defaults

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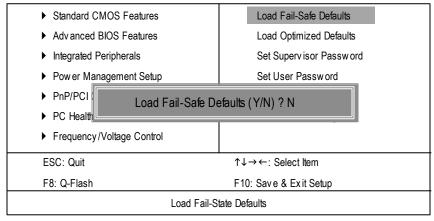


Figure 9: Load Fail-Safe Defaults

Load Fail-Safe Defaults

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



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Load Optimized Defaults

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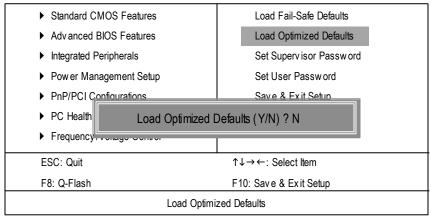


Figure 10: Load Optimized Defaults

Load Optimized Defaults

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



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Set Supervisor/User Password

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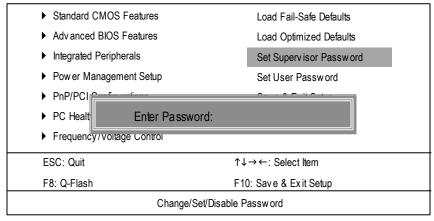


Figure 11: Password Setting

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, any one 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.

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Save & Exit Setup

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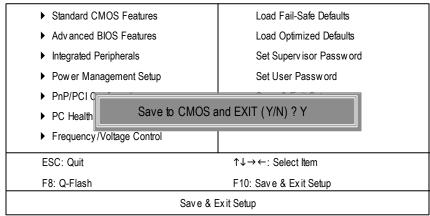


Figure 12: Save & Exit Setup

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





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➤ Standard CMOS Features	Load Fail-Safe Defaults	
► Adv anced BIOS Features	Load Optimized Defaults	
▶ Integrated Peripherals	Set Supervisor Password	
► Power M: PnP/PCI Quit Without Sav	Quit Without Saving (Y/N)? N	
➤ PC Health Status ➤ Frequency/Voltage Control		
ESC: Quit	↑↓→←: Select Item	
F8:Q-Flash	F10: Save & Exit Setup	
Abandon all Data		

Figure 13: Exit Without Saving

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





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BIOS Setup

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Chapter 4 Technical Reference

@BIOS™ Introduction

Gigabyte announces @BIOS Windows BIOS Live Update Utility



Have you ever updated BIOS by yourself? Or like many other people, you just know what BIOS is, but always hesitate to update it? Because you think updating newest BIOS is unnecessary and actually you don't know how to update it.

Maybe not like others, you are very experienced in BIOS updating and spend quite a lot of time to do it. But of course you don't like to do it too much. First, download different BIOS from website and then switch the operating system to DOS mode. Secondly, use different flash utility to update BIOS. The above process is not a interesting job. Besides, always be carefully to store the BIOS source code correctly in your disks as if you update the wrong BIOS, it will be a nightmare.

Certainly, you wonder why motherboard vendors could not just do something right to save your time and effort and save you from the lousy BIOS updating work? Here it comes! Now Gigabyte announces @BIOS -- the first Windows BIOS live update utility. This is a smart BIOS update software. It could help you to download the BIOS from internetand update it. Not like the other BIOS update software, it's a Windows utility. With the help of "@BIOS", BIOS updating is no more than a click.

Besides, no matter which mainboard you are using, if it's a Gigabyte's product*, @BIOS help you to maintain the BIOS. This utility could detect your correct mainboard model and help you to choose the BIOS accordingly. It then downloads the BIOS from the nearest Gigabyte ftp site automatically. There are several different choices; you could use "Internet Update" to download and update your BIOS directly. Or you may want to keep a backup for your current BIOS, just choose "Save Current BIOS" to save it first. You make a wise choice to use Gigabyte, and @BIOS update your BIOS smartly. You are now worry free from updating wrong BIOS, and capable to maintain and manage your BIOS easily. Again, Gigabyte's innovative product erects a milestone in motherboard industries.

For such a wonderful software, how much it costs? Impossible! It's free! Now, if you buy a Gigabyte's motherboard, you could find this amazing software in the attached driver CD. But please remember, connected to internet at first, then you could have a internet BIOS update from your Gigabyte @BIOS.

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Technical Reference

Easy Tune™ 4 Introduction

Gigabyte announces *EasyTune™ 4*Windows based Overclocking utility

EasyTune 4 carries on the heritage so as to pave the way for future generations.



Overclock" might be one of the most common issues in computer field. But have many users ever tried it? The answer is probably "no". Because "Overclock" is thought to be very difficult and includes a lot of technical know-how, sometimes "Overclock" is even considered as special skills found only in some enthusiasts. But as to the experts in "Overclock", what's the truth? They may spend quite a lot of time and money to study, try

and use many different hardware or BIOS tools to do "Overclock". And even with these technologies, they still learn that it's quite a risk because the safety and stability of an "Overclock" system is unknown. Now everything is different because of a Windows based overclocking utility "EasyTune 4" -- announced by Gigabyte. This windows based utility has totally changed the gaming rule of "Overclock". This is the first windows based overclocking utility is suitable for both normal and power users. Users can choose either "Easy Mode" or "Advanced Mode" for overclocking at their convenience. For users who choose "Easy Mode", they just need to click "Auto Optimize" to have autoed and immediate CPU overclocking. This software will then overdrive CPU speed automatically with the result being shown in the control panel. If users prefer "Overclock" by them, there is also another choice. Click "Advanced Mode" to enjoy "sportdrive" class Overclocking user interface. "Advanced Mode", allows users to change the system bus / AGP / Memory working frequency in small increments to get ultimate system performance. It operates in coordination with Gigabyte motherboards. Besides, it is different from other traditional over-clocking methods, EasyTune 4 doesn't require users to change neither BIOS nor hardware switch/jumper setting; on the other hand, they can do "Overclock" at easy step. Therefore, this is a safer way for "Overclock" as nothing is changed on software or hardware. If user runs EasyTune 4 over system's limitation, the biggest lost is only to restart the computer again and the side effect is then well controlled. Moreover, if one well-performed system speed has been tested in EasyTune 4, user can "Save" this setting and "Load" it in next time. Obviously, Gigabyte EasyTune 4 has already turned the "Overclock" technology toward to a newer generation. This wonderful software is now free bundled in Gigabyte motherboard attached in driver CD. Users may make a test drive of "EasyTune 4" to find out more amazing features by themselves.

*Some Gigabyte products are not fully supported by EasyTune 4. Please find the products supported list

in the web site.

*Any "Overclocking action" is at user's risk, Gigabyte Technology will not be responsible for any damage or instability to your processor, motherboard, or any other components.

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Flash BIOS Method Introduction

Method 1: Q-Flash

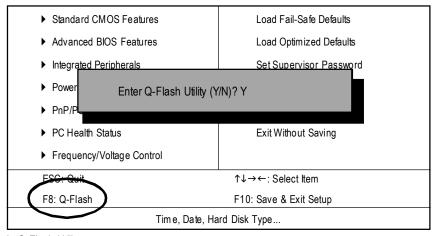
A. What is Q-Flash Utility?

Q-Flash utility is a pre-O.S. BIOS flash utility enables users to update its BIOS within BIOS mode, no more fooling around any OS.

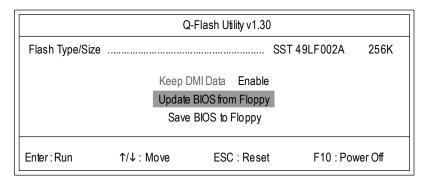
B. How to use Q-Flash?

a. After power on the computer, pressing immediately during POST (Power On Self Test) it will allow you to enter AWARD BIOS CMOS SETUP, then press <F8> to enter Q-Flash utility.

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b. Q-Flash Utility

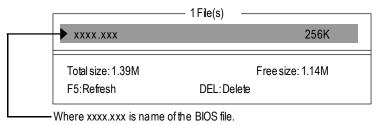


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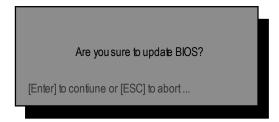
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Load BIOS From Floppy

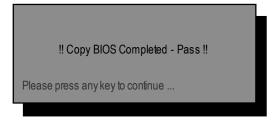
In the A:drive, insert the "BIOS" diskette, then Press Enter to Run.



Press Enter to Run.



Press Enter to Run.



Congratulation! You have completed the flashed and now can restart system.

GA-K8VT800M Motherboard

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Method 2: @ BIOS Utility

If you don't have DOS boot disk, we recommend that you used Gigabyte @BIOS™ program to flash BIOS.







(4)

Methods and steps:

- I. Update BIOS through Internet
- a. Click "Internet Update" icon
- b. Click "Update New BIOS" icon
- c. Select @BIOS™ sever
- d. Selectthe 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.
- d. Please search for BIOS unzip file, downloading from internet or anyother methods (such as: K8VT800M.F1).
- 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 outwhich kind of motherboard and which brand of Flash ROM are supported.

Note:

- a. 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 systemunbooted.
- b. 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
- c. 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.
- d. Please note that any interruption during updating will cause system unbooted

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

The installation of windows 98SE/2K/ME/XP is very simple. Please follow next step to install the function!

Stereo Speakers Connection and Settings:

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

STEP 1:

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



STEP 2:

After installation of the audio driver, you'll find an icon on the taskbar's status area. Click the

audio icon "Sound Effect" from the windows tray at the bottom of the screen.





STEP 3:

Select "Speaker Configuration", and choose the "2 channel for stereo speakers out put".

2-channel mode for stereo speaker output



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Technical Reference

4 Channel Analog Audio Output Mode

STEP 1:

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



STEP 2:

After installation of the audio driver, you'll find an

icon on the taskbar's status area. Click the audio icon "Sound Effect" from the windows tray at the bottom of the screen.

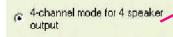




STEP 3:

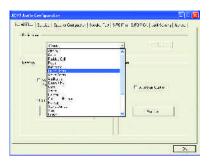
Select "Speaker Configuration", and choose the "4 channel for 4 speakers out put".

Disable "Only SURROUND-KIT", and press "OK".



When the "Environment settings" is "None", the sound would be performed as stereo mode (2 channels output). Please select the other settings for 4 channels output.





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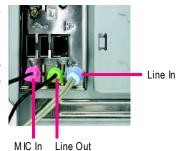
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Basic 6 Channel Analog Audio Output Mode

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".



STEP 2:

After installation of the audio driver, you'll find an

icon on the taskbar's status area. Click the audio icon "Sound Effect" from the windows tray at the bottom of the screen.

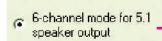




STEP 3:

Select "Speaker Configuration", and choose the "6 channel for 5.1 speakers out put".

Disable "Only SURROUND-KIT" and pess "OK".





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Technical Reference

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.



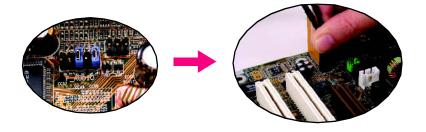
STEP 1:

Insert the "SURROUND-KIT" in the back of the case ,and fix it with the screw.



STEP 2:

Connect the "SURROUND-KIT" to SUR_CEN on the $\ensuremath{\mathsf{M/B}}.$



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STEP 3:

Connect the front channels to back audio panel's "Line Out", the rear channels to SURROUND-KIT's

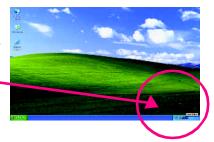
REAR R/L, and the Center/Subwoofer channels to SURROUND-KIT's SUB CENTER.



STEP 4:

Click the audio icon "Sound Effect" from the windows tray at the bottom of the screen.



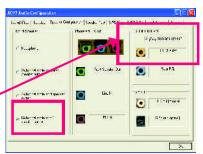


STEP 5:

Select "Speaker Configuration", and choose the "6 channel for 5.1 speakers out put".

Enable "Only SURROUND-KIT" and press "OK".





Basic & Advanced 6 Channel Analog Audio Output ModeNotes:

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



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Technical Reference

SPDIF Output Device (Optional Device)

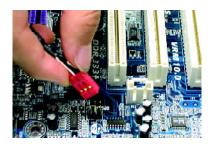
A "SPDIF output" device is available on the motherboard. Cable with rear bracket is provided and could link to the "SPDIF output" connector (As picture.) For the further linkage to decoder, rear bracket provides coaxial cable and Fiber connecting port.



 Connect the SPDIF output device to the rear bracket of PC, and fix it with screw.



2. Connect SPDIF device to the motherboard.



3. Connect SPDIF to the SPDIF decoder.



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Jack-Sensing Introduction



Jack-Sensing provides audio connectors error-detection function.



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

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

Introduction of audio connectors

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



Auto-detecting:

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

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



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Technical Reference

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



Manual setting:

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



Xpress Recovery Introduction

What is Xpress Recovery?

Xpress Recovery utility is an utility for backing up and restoring O.S. partition . If the hard drive can not work properly, you can restore it to the original state.



- 1. It supports FAT16 、 FAT32 、 NTFS format .
- 2. It must be connected to IDE1 Master.
- 3. It's only allows you to install one O.S.
- 4. It must be used with IDE hard disk supporting HPA.
- 5. The first partition must be set as the boot partition. When the boot partition is backed up, please do not change the its size.
- 6. It is not recommend to use Xpress Recovery if you had ever used Ghost to return boot manager to NTFS format.



- 1. System data and hard disk's reading/writing speed will affect backing up speed.
- 2. We recommend that you install Xpress Recovery immediately after installing O.S, drivers and applications.

How to use the Xpress Recovery

There are two ways to enter the Xpress Recovery utility. (see the below)

1. TextMode: press F9 during powering on the computer.

Press F9 during powering on the computer.



2. BMP Mode: boot from CD-ROM

Please go to "Advanced BIOS" setting menu and set boot from CD-ROM, then save and exit the BIOS menu . Later, please insert MB driver CD into your drive when "Boot from CD:" appears at the bottom of the screen, press any key to enter Xpress Recovery.

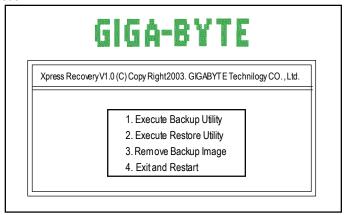


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You can highlight the item by using the arrows keys on your keyboard and enter key to enter the menu.

Text Mode:



BMP Mode:



If you ever entered Xpress Recovery by booting from CD-ROM, you'll still be caurion directed to BMP mode by pressing F9 in the bootup screen.

GA-K8VT800M Motherboard

1.Execute Backup Utility:

Press B to Backup your System or Esc to Exit

The Backup utility will scan the system automatically and back up it.

The backed up data will be saved as an hidden image.

2.Execute Restore Utility:

This program will recover your system to factory default.

Press R to recover your system.

Press Esc to exit

Restore the backup image to the original state.

3. Remove Backup Image:

Are you sure to remove backup image? (Y/N)

Remove the backup image.

4.Exit and Restart:

Exit and restart your computer.

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Technical Reference

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Install Drivers



Pictures below are shown in Windows XP

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

INSTALL CHIPSET DRIVER

This page shows the drivers that need to be installed for the system. Click each item to install the driver manually or switch to the to install the drivers automatically.



The "Xpress Install" uses the "Click and Forget" technology to install the drivers automatically. Just select the drivers you want then click the "GO" button. The will finish the installation for you automatically.





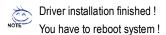
Massage: Some device drivers will restart your system automatically. After restarting your system the "Xpress Install" will continue to install other drivers.

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Item Description

- VIA 4IN1DriverVIA Chipset Driver
- USB Patch for WinXP
 This patch driver can help you to resolve the USB device wake up S3 hang up issue in XP.
- Realtek Lan Driver
 RealTek 10/100 LAN driver
- RealTek AC97 Codec Driver Realtek Audio Driver
- VIA 8237 Serial ATA Driver For VIA 8237 SATA Driver
- VIA USB 2.0 Controller

VIA USB 2.0 Host Controller use the inbox driver in Service Pack 1 Please upgrade to Windows XP Service Pack 1 and rescan for hardware change in Device Manage.



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).

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This page reveals the value-added software developed by Gigabyte and its worldwide partners.



- Gigabyte Windows Utilities Manager (GWUM)

 This utility can integrate the Gigabyte's applications in the system tray
- Gigabyte Management Tool (GMT)
 A useful tool which can manage the computer via the network
- EasyTune 4
 Powerful utility that integrates the overclocking and hardware monitoring functions
- DMI Viewer
 Windows based utility which is used to browse the DMI/SMBIOS information of the system
- Face-WizardNew utility for adding BIOS logo
- @BIOS Gigabyte windows flash BIOS utility
- Acrobat e-Book Useful utility from Adobe
- Acrobat Reader
 Popular utility from Adobe for reading .PDF file format documents
- DirectX 9.0
 Install Microsoft DirectX 9 to enable 3D hardware acceleration that support for operating system to achieve better 3D performence.





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SOFTWARE INFORMATION

This page list the contects of softwares and drivers in this CD title.



HARDWARE INFORMATION

This page lists all device you have for this motherboard.



CONTACT US

Please see the last page for details.



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Below is a collection of general asked questions. To check general asked questions based on a specific motherboard model, please log on to http://tw.giga-byte.com/fag/fag.htm

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: Why cannot I use all functions in EasyTune™ 4?

Answer: The availability of the listed functions in EasyTune™ 4 depends on the MB chipset. If the chipset doesn't support certain functions in EasyTune™ 4, these functions will be locked automatically and you will not be able to use them.

Question 4: Why do I fail to install RAID and ATA drivers under Win 2000 and XP on boards that support RAID function after I connect the boot HDD to IDE3 or IDE4?

Answer: First of all, you need to save some files in the CD-ROM to a floppy disk before installing drivers. You also need to go through some rather different steps in the installation process. Therefore, we suggest that you refer to the installation steps in the RAID manual at our website.

(Please download it at http://tw.giga-byte.com/support/user_pdf/raid_manual.pdf)

Question 5: 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.
- 3. 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).

- 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.
- 7. Save changes and reboot the system.

Question 6: Why does system seem unstable after updating BIOS?

Answer: Please remember to load Fail-Safe Defaults (Or Load BIOS Defaults) after flashing BIOS. However, if the system instability still remains, please clear CMOS to solve the problem.

Question 7: 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.

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Question 8: How do I disable onboard VGA card in order to add an external VGA card?

Answer: Gigabyte motherboards will auto-detect the external VGA card after it is plugged in, so you don't need to change any setting manually to disable the onboard VGA.

Question 9: Why cannot I use the IDE 2?

Answer: Please refer to the user manual and check whether you have connected any cable that is not provided with the motherboard package to the USB Over Current pin in the Front USB Panel. If the cable is your own cable, please remove it from this pin and do not connect any of your own cables to it.

Question 10: 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

Question 11: How to set in the BIOS in order to bootup from SATA HDDs by either RAID or ATA mode?

Answer: Please set in the BIOS as follow:

- 1. Advanced BIOS features--> SATA/RAID/SCSI boot order: "SATA"
- 2. Advanced BIOS features--> First boot device: "SCSI"
- 3. Integrated Peripherals--> Onboard H/W Serial ATA: "enable"

Then it depends on the SATA mode that you need to set "RAID" to RAID mode or "BASE" to normal ATA mode in the item named Serial ATA function.

Question 12: For the M/B which have RAID function, how to set in the BIOS in order to bootup from IDE3, 4 by either RAID or ATA mode?

Answer: Please set in the BIOS as follow:

- 1. Advanced BIOS features-->(SATA)/RAID/SCSI boot order: "SATA"
- 2. Advanced BIOS features--> First boot device: "SCSI"
- 3. Integrated Peripherals-> Onboard H/W ATA/RAID: "enable"

Then it depends on the RAID mode that you need to set "RAID" to RAID mode or "ATA" to normal ATA mode in the item named RAID controller function.

Question 13: How to set in the BIOS to bootup from the IDE/ SCSI/ RAID card ?

Answer: Please set in the BIOS as follow:

- 1. Advanced BIOS features -> (SATA)/RAID/SCSI boot order: "SCSI"
- 2. Advanced BIOS features--> First boot device: "SCSI"

Then it depends on the mode(RAID or ATA) that you need to set in RAID/ SCSI BIOS.

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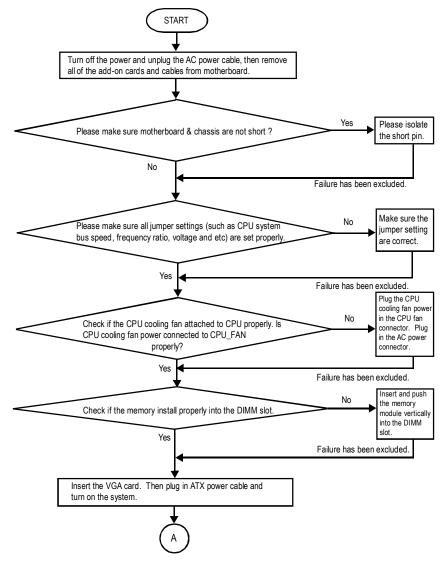




Troubleshooting



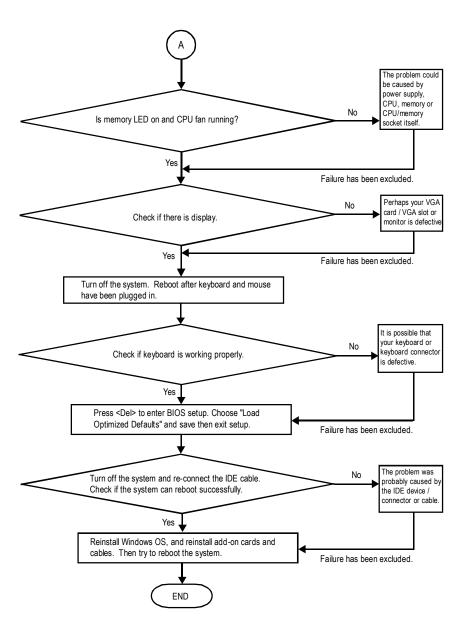
If you encounter any trouble during boot up, please follow the troubleshooting procedures.



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If the above procedure unable to solve your problem, please contact with your local retailer or national distributor for help. Or, you could submit your question to the service mail via Gigabyte website technical support zone (http://www.gigabyte.com.tw). The appropriate response will be provided ASAP.

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Technical Support/RMA Sheet

Customer/Cour	itry:	Company:		Phone No.:
Contact Person		E-mail Add. :		'
Model name/Lo	t Number:			PCB revision:
BIOS version:		O.S./A.S.:		
Hardware	Mfs.	Model name	Size:	Driver/Utility:
Configuration				
CPU				
Memory				
Brand				
Video Card				
Audio Card				
HDD				
CD-ROM/				
DVD-ROM				
Modem				
Network				
AMR / CNR				
Keyboard				
Mouse				
Power supply				
Other Device				
Problem Descri	ption:			
_				

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ACPI	Advanced Configuration and Power Interface
APM	Advanced Power Management
AGP	Accelerated Graphics Port
AMR	Audio Modem Riser
ACR	Advanced Communications Riser
BIOS	Basic Input / Output System
CPU	Central Processing Unit
CMOS	Complementary Metal Oxide Semiconductor
CRIMM	Continuity RIMM
CNR	Communication and Networking Riser
DMA	Direct Memory Access
DMI	Desktop Management Interface
DIMM	Dual Inline Memory Module
DRM	Dual Retention Mechanism
DRAM	Dynamic Random Access Memory
DDR	Double Data Rate
ECP	Extended Capabilities Port
ESCD	Extended System Configuration Data
ECC	Error Checking and Correcting
EMC	Electromagnetic Compatibility
EPP	Enhanced Parallel Port
ESD	Electrostatic Discharge
FDD	Floppy Disk Device
FSB	Front Side Bus
HDD	Hard Disk Device
IDE	Integrated Dual Channel Enhanced
IRQ	Interrupt Request

to be continued.....

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Acronyms	Meaning
IOAPIC	Input Output Advanced Programmable Input Controller
ISA	Industry Standard Architecture
LAN	Local Area Network
1/0	Input / Output
LBA	Logical Block Addressing
LED	Light Emitting Diode
MHz	Megahertz
MIDI	Musical Instrument Digital Interface
MTH	Memory Translator Hub
MPT	Memory Protocol Translator
NIC	Network Interface Card
OS	Operating System
OEM	Original Equipment Manufacturer
PAC	PCI A.G.P. Controller
POST	Power-On Self Test
PCI	Peripheral Component Interconnect
RIMM	Rambus in-line Memory Module
SCI	Special Circumstance Instructions
SECC	Single Edge Contact Cartridge
SRAM	Static Random Access Memory





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Contact us via the information in this page all over the world.

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The respective department will attend to the inquiry as soon as possible. Thank you for your cooperation!

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