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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-K8VM800M. You'll find the answers to all your questions on the GIGABYTE GA-K8VM800M in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual GIGABYTE GA-K8VM800M**

**User guide GIGABYTE GA-K8VM800M**

**Operating instructions GIGABYTE GA-K8VM800M**

**Instructions for use GIGABYTE GA-K8VM800M**

**Instruction manual GIGABYTE GA-K8VM800M**


## **GA-K8VM800M / GA-K8VM800M-RH**

AMD Socket 754 Processor Motherboard

User's Manual

Rev. 2004

12ME-K8VM800M-2004R

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



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**Manual abstract:**

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OUT MIC LINE-IN -8- Chapter 1 Hardware Installation 1-1 Considerations Prior to Installation Preparing Your Computer The motherboard contains numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Thus, prior to installation, please follow the instructions below: 1. Please turn off the computer and unplug its power cord. 2. When handling the motherboard, avoid touching any metal leads or connectors. 3. It is best to wear an electrostatic discharge (ESD) cuff when handling electronic components (CPU, RAM). 4. Prior to installing the electronic components, please have these items on top of an antistatic pad or within an electrostatic shielding container. 5. Please verify that the power supply is switched off before unplugging the power supply connector from the motherboard. English Installation Notices 1. Prior to installation, please do not remove the stickers on the motherboard. These stickers are required for warranty validation. 2. Prior to the installation of the motherboard or any hardware, please first carefully read the information in the provided manual. 3. Before using the product, please verify that all cables and power connectors are connected. 4. To prevent damage to the motherboard, please do not allow screws to come in contact with the motherboard circuit or its components. 5. Please make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing. 6.

Please do not place the computer system on an uneven surface. 7. Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user. 8. If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician. Instances of Non-Warranty 1. 2. 3. 4. 5. 6. Damage due to natural disaster, accident or human cause. Damage as a result of violating the conditions recommended in the user manual. Damage due to improper installation. Damage due to use of uncertified components. Damage due to use exceeding the permitted parameters. Product determined to be an unofficial Gigabyte product. -9- Hardware Installation English 1-2 CPU Feature Summary Socket 754 for AMD AthlonTM 64 processor (K8) 1600MHz system bus Supports core frequencies in excess of 3000+ and faster Northbridge: VIA K8M800 Southbridge: VIA VT8237R / VT8237R+ 2 DDR DIMM memory slots (supports up to 2GB memory) Supports DDR 400(Note 1)/333/266/200 DIMM Supports 2.5V DDR DIMM 1 AGP slot 3 PCI slots 2 IDE connection (UDMA 33/ATA 66/ATA 100/ATA 133), allows connection of 4 IDE devices 1 FDD connection, allows connection of 2 FDD devices 2 Serial ATA connections (Note2) 1 parallel port supporting Normal/EPP/ECP mode 1 serial port (COMA), 1 VGA port, onboard COMB connection 8 USB 2.0/1. 1 ports (rear x 4, front x 4 via cable) 1 front audio connector 1 IR connector 1 PS/2 keyboard port 1 PS/2 mouse port Build in VIA K8M800 Chipset Onboard VIA 6103L chip (10/100 Mbit) 1 RJ 45 port Realtek ALC655 CODEC Supports Line In ; Line Out ; MIC In Supports 2 / 4 / 6 channel audio SPDIF In/Out connection CD In connection IT8705 Chipset Memory Slots IDE Connections FDD Connections Onboard SATA Peripherals On-Board VGA Onboard LAN Onboard Audio I/O Control (Note 1) Because of CPU limitations, if you want to install DDR400 memory modules in your system, please install either one double-sided or two single-sided DDR400 memory modules. The DDR400 speed will drop down to DDR333 if you install two double-sided DDR400 memory modules. (Note 2) It is recommended to use SATA (1.



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5Gb/s) hard disks. GA-K8VM800M(-RH) Motherboard - 10 - On-Board SATA RAID Hardware Monitor BIOS Additional Features Overclocking Form Factor Built in VIA VT8237R / VT8237R+ Supports Disk striping (RAID0) or DISK Mirroring (RAID1) Supports UDMA up to 150 MB/sec Up to 2 SATA Device System voltage detection CPU temperature detection CPU / System fan speed detection CPU fan failure warning Use of licensed AWARD BIOS Supports Q-Flash Supports @BIOS Supports EasyTune (Note 3) Over Clock (CPU) by BIOS Over Voltage (CPU/AGP) by BIOS Micro ATX form factor; 22.0cm x 24.4cm English (Note 3) EasyTune functions may vary depending on different motherboards. - 11 - Hardware Installation English 1-3 Installation of the CPU and Heatsink Before installing the CPU, please comply with the following conditions: 1. Please make sure that the motherboard supports the CPU. 2.

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

If you wish to set the frequency beyond the proper specifications, please do so according to your hardware specifications including the CPU, graphics card, memory, hard drive, etc. 1-3-1 Installation of the CPU Check the processor pins to see that none are bent. Move the socket lever to the unlocked position as shown in Figure 1.(90 o to the plane of the motherboard) prior to inserting the processor. The pin 1 location is designated on the processor by a copper triangle that matches up to a triangle on the socket as showto the lower port (purple).

USB port Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker...etc. have a standard USB interface.

Also make sure your OS supports USB controller. If your OS does not support USB controller, please contact OS vendor for possible patch or driver upgrade.

For more information please contact your OS or device(s) vendors. Parallel Port The parallel port allows connection of a printer, scanner and other peripheral devices. COM A (Serial Port) Connects to serial-based mouse or data processing devices. VGA Port Monitor can be connected to VGA port. LAN Port The provided Internet connection is fast Ethernet, providing data transfer speeds of 10/100Mbps. Line In Devices like CD-ROM, walkman etc. can be connected to Line In jack. Line Out (Front Speaker Out) Connect the stereo speakers, earphone or front surround channels to this connector.

MIC In Microphone can be connected to MIC In jack. You can use audio software to configure 2-/4-/6- channel audio functioning. GA-K8VM800M(-RH) Motherboard - 16 - 1-7 Connectors Introduction English 3 2 1 5 6 10 4 7 14 11 8 16 12 15 13 17 9 1) 2) 3) 4) 5) 6) 7) 8) 9) ATX\_12V ATX (Power Connector) CPU\_FAN SYS\_FAN FDD IDE1 / IDE2 SATA0 / SATA1 F\_PANEL PWR\_LED 10) 11) 12) 13) 14) 15) 16) 17) F\_AUDIO CD\_IN SPDIF\_IO F\_USB1 / F\_USB2 IR COMB CLR\_CMOS BAT - 17 - Hardware Installation English 1/2) ATX\_12V / ATX (Power Connector) With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard. Before connecting the power connector, please make sure that all components and devices are properly installed. Align the power connector with its proper location on the motherboard and connect tightly. The ATX\_12V power connector mainly supplies power to the CPU. If the ATX\_12V power connector is not connected, the system will not start. Caution! Please use a power supply that is able to handle the system voltage requirements. It is recommended that a power supply that can withstand high power consumption be used (300W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable system or a system that is unable to start.

4 2 Pin No. 1 2 Definition GND GND +12V +12V Definition 3.3V 3.3V GND VCC GND Power Good 5V SB (stand by +5V) +12V 3.3V -12V GND PS\_ON(soft on/off) GND GND GND -5V +5V +5V 3 1 3 4 Pin No.

11 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 10 GA-K8VM800M(-RH) Motherboard - 18 - 3/4) CPU\_FAN / SYS\_FAN (Cooler Fan Power Connector) The cooler fan power connector supplies a +12V power voltage via a 3-pin power connector and possesses a foolproof connection design. Most coolers are designed with color-coded power connector wires. A red power connector wire indicates a positive connection and requires a +12V power voltage. The black connector wire is the ground wire (GND). Please remember to connect the power to the cooler to prevent system overheating and failure. Caution! Please remember to connect the power to the CPU fan to prevent CPU overheating and failure. English 1 CPU\_FAN Pin No. 1 2 3 Definition GND +12V Sense 1 SYS\_FAN 5) FDD (FDD Connector) The FDD connector is used to connect the FDD cable while the other end of the cable connects to the FDD drive. The types of FDD drives supported are: 360KB, 720KB, 1.2MB, 1.44MB and 2.88MB. Before attaching the FDD cable, please take note of the foolproof groove in the FDD connector. 34 33 2 1 - 19 - Hardware Installation English 6) IDE1 / IDE2 (IDE Connector) An IDE device connects to the computer via an IDE connector. One IDE connector can connect to one IDE cable, and the single IDE cable can then connect to two IDE devices (hard drive or optical drive).

If you wish to connect two IDE devices, please set the jumper on one IDE device as Master and the other as Slave (for information on settings, please refer to the instructions located on the IDE device). Before attaching the IDE cable, please take note of the foolproof groove in the IDE connector. 40 39 2 IDE1

1 7) SATA0 / SATA1 (Serial ATA Connector) Serial ATA can provide up to 150MB/s transfer rate. Please refer to the BIOS setting for the Serial ATA and install the proper driver in order to work properly. Pin No. 1 2 1 7 Definition GND TXP TXN GND RXN RXP GND 3 4 5 6 7 GA-K8VM800M(-RH) Motherboard - 20 - 8) F\_PANEL (Front Panel Jumper) 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 below. English 20 19 SPEAKSpeaker Connector SPEAK+ Power Switch Message LED/ Power/ Sleep LED PW+ PW- MSGMSG+ 21 NC RES+ RESHDHD+ Reset Switch IDE Hard Disk Active LED HD (IDE Hard Disk Active LED) SPEAK (Speaker Connector) Pin 1: LED anode(+) Pin 2: LED cathode(-) Pin 1: Power Pin 2- Pin 3: NC Pin 4: Data(-) RES (Reset Switch) PW (Power Switch) MSG(Message LED/Power/Sleep LED) NC Open: Normal Close: Reset Hardware System Open: Normal Close: Power On/Off Pin 1: LED anode(+) Pin 2: LED cathode(-) NC - 21 - Hardware Installation English 9) PWR\_LED The PWR\_LED connector is connected with the system power indicator to indicate whether the system is on/off.



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It will blink when the system enters suspend mode. 1 Pin No. 1 2 3 Definition MPD+ MPDMPD- 10) F\_AUDIO (Front Audio Panel 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 assignments for the cable are the same as the pin assignments for the front audio 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.

1 2 Definition MIC GND MIC\_BIAS POWER FrontAudio(R) Rear Audio (R)/ Return R NC No Pin FrontAudio (L) Rear Audio (L)/ Return L 1 2 3 4 5 6 7 8 9 10 9 10 GA-K8VM800M(-RH) Motherboard - 22 - 11) CD\_IN (CD In Connector) Connect CD-ROM or DVD-ROM audio out to the connector. English 1 Pin No. 1 2 3 4 Definition CD-L GND GND CD-R 12) SPDIF\_IO (SPDIF In/ Out) The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder. Use this feature only when your stereo system has digital input function. Use SPDIF IN feature only when your device has digital output function.

Be careful with the polarity of the SPDIF\_IO connector. Check the pin assignment carefully while you connect the SPDIF cable. Incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional SPDIF cable, please contact your local dealer. Pin No. 1 6 2 5 1 Definition Power No Pin SPDIF SPDIFI GND GND 2 3 4 5 6 - 23 - Hardware Installation English 13) F\_ USB1 / F\_USB2 (Front USB Connector)

Be careful with the polarity of the front USB connector. Check the pin assignment carefully while you connect the front USB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional front USB cable, please contact your local dealer. Pin No. 1 2 2 10 Definition Power Power USB DXUSB DyUSB DX+ USB Dy+ GND GND No Pin NC 3 4 5 6 7 8 9 10 1 9 14) IR Be careful with the polarity of the IR connector while you connect the IR.

Please contact your nearest dealer for optional IR device. Pin No. 1 1 Definition Power No Pin IR RX GND IR TX 2 3 4 5 GA-K8VM800M(-RH) Motherboard - 24 - 15) COMB (COMB Connector) Be careful with the polarity of the COMB connector. Check the pin assignments while you connect the COMB cable.

Please contact your nearest dealer for optional COMB cable. English Pin No. 1 2 2 10 Definition NDCDBNSINB NSOUTB NDTRBGND NDSRBNRTSBNCTSBNRIBNo Pin 3 4 5 6 7 8 9 10 1 9 16) CLR\_CMOS (Clear CMOS) You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short 1-2 pin. Default doesn't include the "Shunter" to prevent from improper use this jumper. 1 Open: Normal 1 Short: Clear CMOS - 25 - Hardware Installation English 17) BAT (Battery) Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. If you want to erase CMOS...

1. Turn off the computer and unplug the power cord. 2. Gently take out the battery and put it aside for about one minute. (Or you can use a metal object to connect the positive and negative pins in the battery holder to makethem short for five seconds.

) 3. Re-install the battery. 4. Plug the power cord in and turn on the computer. GA-K8VM800M(-RH) Motherboard - 26 - Chapter 2 BIOS Setup BIOS (Basic Input and Output System) includes a CMOS SETUP utility which allows user to configure required settings or to activate certain system features. The CMOS SETUP saves the configuration in the CMOS SRAM of the motherboard. When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS SRAM. When the power is turned on, pushing the <Del> button during the BIOS POST (Power-On Self Test) will take you to the CMOS SETUP screen. You can enter the BIOS setup screen by pressing "Ctrl + F1". When setting up BIOS for the first time, it is recommended that you save the current BIOS to a disk in the event that BIOS needs to be reset to its original settings.

If you wish to upgrade to a new BIOS, either GIGABYTE's Q-Flash or @BIOS utility can be used. Q-Flash allows the user to quickly and easily update or backup BIOS without entering the operating system. @BIOS is a Windows-based utility that does not require users to boot to DOS before upgrading BIOS but directly download and update BIOS from the Internet. English CONTROL KEYS <>>><<<<Enter> <Esc> <Page Up> <Page Down> <F1> <F2> <F5> <F6> <F7> <F8> <F9> <F10> >>> Move to select item Select Item 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 Increase the numeric value or make changes Decrease the numeric value or make changes General help, only for Status Page Setup Menu and Option Page Setup Menu Item Help Restore the previous CMOS value from CMOS, only for Option Page Setup Menu Load the fail-safe default CMOS value from BIOS default table Load the Optimized Defaults Q-Flash utility System Information Save all the CMOS changes, only for Main Menu 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>. - 27 - BIOS Setup English The BIOS Setup menus described in this chapter are for reference only and may differ from the exact settings for your motherboard. The Main Menu (For example: BIOS Ver. : D1) Once you enter Award BIOS CMOS Setup Utility, the Main Menu (as figure below) will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC: Quit F8: Q-Flash Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Time, Date, Hard Disk Type... If you can't find the setting you want, please press "Ctrl+F1" to search the advanced option hidden. Standard CMOS Features This setup page includes all the items in standard compatible BIOS.



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Advanced BIOS Features This setup page includes all the items of Award special enhanced features. Integrated Peripherals This setup page includes all onboard peripherals. Power Management Setup This setup page includes all the items of Green function features. PnP/PCI Configuration This setup page includes all the configurations of PCI & PnP ISA resources. PC Health Status This setup page is the System auto detect Temperature, voltage, fan, speed. Frequency/Voltage Control This setup page is control CPU'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. GA-K8VM800M(-RH) Motherboard - 28 - Load Optimized Defaults Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration. English Set Supervisor Password Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup. Set User Password Change, set, or disable password. It allows you to limit access to the system. Save & Exit Setup Save CMOS value settings to CMOS and exit setup. Exit Without Saving Abandon all CMOS value changes and exit setup. - 29 - BIOS Setup English 2-1 Standard CMOS Features CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Date (mm:dd:yy) Time (hh:mm:ss) IDE Channel 0 Master IDE Channel 0 Slave IDE Channel 1 Master IDE Channel 1 Slave IDE Channel 2 Master IDE Channel 3 Master Drive A Drive B Floppy 3 Mode Support Halt On Base Memory Extended Memory Total Memory : Move Enter: Select F5: Previous Values Wed, May 11 2005 10:40:9 [None] [None] [None] [None] [None] [None] [1].

44M, 3.5" [None] [Disabled] [All, But Keyboard] 640K 127M 128M +/-/PU/PD: Value F6: Fail-Safe Defaults <Year> 1999 to 2098 Item Help Menu Level Change the day, month, year <Week> Sun. to Sat. <Month> Jan. to Dec. <Day> 1 to 31 (or maximum allowed in the month) F10: Save ESC: Exit F7: Optimized Defaults F1: General Help 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 Time The times format in <hour> <minute> <second>. The time is calculated base on the 24-hour militarytime clock. For example, 1 p.m. is 13:00:00. IDE Channel 0/1 Master, Slave IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection. IDE Device Setup.

You can use one of three methods: Auto Allows BIOS to automatically detect IDE devices during POST.(default) None Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up. Manual User can manually input the correct settings Access Mode Use this to set the access mode for the hard drive. The four options are: CHS/LBA/Large/Auto(default:Auto) IDE Channel 2/3 Master IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection. Extended IDE Drive SATA devices setup.

You can use one of two methods: Auto Allows BIOS to automatically detect SATA IDE devices during POST. (Default value) None Select this if no SATA IDE devices are used and the system will skip the automatic detection step and allow for faster system start up. Access Mode Use this to set the access mode for the hard drive. The two options are: Large/Auto(default:Auto) GA-K8VM800M(-RH) Motherboard - 30 - Capacity Capacity of currently installed hard disk. Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information. Cylinder Number of cylinders Head Number of heads Precomp Write precomp Landing zone Sector Number of sectors English Drive A / Drive B The category identifies the types of floppy disk drive A or drive B that has been installed in the computer. None No floppy drive installed 360K, 5.25" 5.25 inch PC-type standard drive; 360K byte capacity.

1.2M, 5.25" 5.25 inch AT-type high-density drive; 1.2M byte capacity (3.5 inch when 3 Mode is Enabled). 720K, 3.5" 3.5 inch double-sided drive; 720K byte capacity 1.44M, 3.5" 3.5 inch double-sided drive; 1.44M byte capacity. (Default value) 2.88M, 3.5" 3.5 inch double-sided drive; 2.88M byte capacity. Floppy 3 Mode Support (for Japan Area) Disabled Drive A Drive B Both Normal Floppy Drive. (Default value) Drive A is 3 mode Floppy Drive. Drive B is 3 mode Floppy Drive. Drive A & B are 3 mode Floppy Drives. Halt on The category determines whether the computer will stop if an error is detected during power up. No Errors The system boot will not stop for any error that may be detected and you will be prompted. All Errors Whenever the BIOS detects a non-fatal error the system will be stopped. All, But Keyboard The system boot will not stop for a keyboard error; it will stop for all other errors. (Default value) All, But Diskette The system boot will not stop for a disk error; it will stop for all other errors. All, But Disk/Key The system boot will not stop for a keyboard or disk error; it will stop for all other errors. Memory The category is display-only which is determined by POST (Power On Self Test) of the BIOS. 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 512K for systems with 512K memory installed on the motherboard, or 640K for systems with 640K or more memory installed on the motherboard. Extended Memory The BIOS determines how much extended memory is present during the POST. This is the amount of memory located above 1 MB in the CPU's memory address map. Total Memory This item displays the memory size that used. - 31 BIOS Setup English 2-2 Advanced BIOS Features CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Advanced BIOS Features Hard Disk Boot Priority First Boot Device Second Boot Device Third Boot Device Password Check [Press Enter] [Floppy] [Hard Disk] [CDROM] [Setup] Item Help Menu Level Select Hard Disk Boot Device Priority : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F7: Optimized Defaults F1: General Help Hard Disk Boot Priority Select boot sequence for onboard(or add-on cards) SCSI, RAID, etc. Use <> or << >> to select a device, then press<+> to move it up, or <-> to move it down the list. Press <ESC> to exit this menu. First / Second / Third Boot Device Floppy LS120 Hard Disk CDROM ZIP USB-FDD USB-ZIP USB-CDROM USB-HDD Legacy LAN Disabled System Setup Select your boot device priority by Floppy. Select your boot device priority by LS120.



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Select your boot device priority by Hard Disk.

Select your boot device priority by CDROM. Select your boot device priority by ZIP. Select your boot device priority by USB-FDD. Select your boot device priority by USB-ZIP. Select your boot device priority by USB-CDROM.

Select your boot device priority by USB-HDD. Select your boot device priority by Legacy LAN. Disable this function. 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. The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt.

(Default value) Password Check GA-K8VM800M(-RH) Motherboard - 32 - 2-3 Integrated Peripherals CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Integrated Peripherals [Enabled] [Enabled] [Enabled] [Enabled] [RAID] [Auto] [Enabled] [Enabled] [Enabled] [Disabled] [Disabled] [Disabled] [Enabled] [3F8/IRQ4] [2F8/IRQ3] [Normal] Half [378/IRQ7] [SPP] +/-/PU/PD: Value F6: Fail-Safe Defaults Item Help Menu Level English IDE DMA transfer access On-Chip IDE Channel 0 On-Chip IDE Channel 1 OnChip Serial ATA SATA Mode AC97 Audio VIA Onboard LAN USB 1.1 Controller USB 2.0 Controller USB Keyboard Support USB Mouse Support On-Chip LAN Boot ROM Onboard FDC Controller Onboard Serial Port 1 Onboard Serial Port 2 UART Mode Select x UR2 Duplex Mode Onboard Parallel Port Parallel Port Mode : Move Enter: Select F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Integrated Peripherals Midi Port Address x Midi Port IRQ [Disabled] 10 Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F7: Optimized Defaults F1: General Help IDE DMA transfer access Enabled Disabled Enabled Disabled Enabled Disabled Enable IDE DMA transfer access. (Default value) Disable this function. Enable onboard 1st channel IDE port. (Default value) Disable onboard 1st channel IDE port. Enable onboard 2nd channel IDE port. (Default value) Disable onboard 2nd channel IDE port. On-Chip IDE Channel0 On-Chip IDE Channel1 - 33 - BIOS Setup English OnChip Serial ATA Enabled Disabled Enable VT8237R / VT8237R+ Serial ATA supported. (Default value) Disable VT8237R / VT8237R+ Serial ATA supported.

Set onboard SATA mode to RAID. (Default value) Set onboard SATA mode to IDE. Enable onboard AC'97 audio function. (Default value) Disable this function. Enable VIA onboard LAN function. (Default value) Disable this function. Disable USB 1.1 controller. Enable USB 1.1 controller.

(Default value) Disable USB 2.0 controller. Enable USB 2.0 controller. (Default value) Enable USB keyboard support.

Disable USB keyboard support. (Default value) Enable USB mouse support. Disable USB mouse support. (Default value) SATA Mode RAID IDE AC97 Audio Auto Disabled Enabled Disabled Disabled Enabled Disabled Enabled Enabled Disabled Enabled Disabled VIA Onboard LAN USB 1.1 Controller USB 2.0 Controller USB Keyboard Support USB Mouse Support On-Chip LAN Boot ROM This function decide whether to invoke the boot ROM of the onboard LAN chip. PXE Set On-Chip LAN Boot ROM to PXE. RPL Set On-Chip LAN Boot ROM to RPL. Disabled Disable this function. (Default value) Onboard FDC Controller Enabled Disabled Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Enable onboard FDC Controller. (Default value) Disable onboard FDC Controller. BIOS will automatically setup the Serial port 1 address. Enable onboard Serial port 1 and address is 3F8/IRQ4. (Default value) Enable onboard Serial port 1 and address is 2F8/IRQ3. Enable onboard Serial port 1 and address is 3E8/IRQ4.

Enable onboard Serial port 1 and address is 2E8/IRQ3. Disable onboard Serial port 1. Onboard Serial Port 1 GA-K8VM800M(-RH) Motherboard - 34 - Onboard Serial Port 2 Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled BIOS will automatically set up the Serial port 2 address. Enable onboard Serial port 2 and address is 3F8/IRQ4. Enable onboard Serial port 2 and address is 2F8/IRQ3. (Default value) Enable onboard Serial port 2 and address is 3E8/IRQ4. Enable onboard Serial port 2 and address is 2E8/IRQ3. Disable onboard Serial port 2. English 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 Duplex Mode This feature allows you to select IR mode. This function is available only when UART Mode Select is not set to Normal. Half IR Function Duplex Half.

(Default value) Full IR Function Duplex Full. Onboard Parallel Port Disabled 378/IRQ7 278/IRQ5 3BC/IRQ7 SPP EPP ECP ECP+EPP 300 330 Disabled Disable onboard LPT port. Enable onboard LPT port and address is 378/IRQ7. (Default value) Enable onboard LPT port and address is 278/IRQ5. Enable onboard LPT port and address is 3BC/IRQ7.

Using Parallel port as Standard Parallel Port. (Default value) Using Parallel port as Enhanced Parallel Port. Using Parallel port as Extended Capabilities Port. Using Parallel port as ECP and EPP mode. Set Midi Port Address to 300. Set Midi Port Address to 330 Disable this function. (Default value) Set Midi Port IRQ to 5. Set Midi Port IRQ to 10. (Default value) Parallel Port Mode Midi Port Address Midi Port IRQ 5 10 - 35 - BIOS Setup English 2-4 Power Management Setup CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Power Management Setup [S1(POS)] Disabled [Instant-Off] [Soft-Off] [Disabled] [Disabled] [Enabled] [Enabled] [Disabled] Everyday 0:0:0 Item Help Menu Level [S1] Set suspend type to Power On Suspend under ACPI OS [S3] Set suspend type to Suspend to RAM under ACPI OS ACPI Suspend Type x USB Device Wake-Up From S3 Soft-Off by PWRBTN AC Back Function Keyboard Power On Mouse Power On PME Event Wake Up Modem Ring Resume Resume by Alarm x Date (of Month) Alarm x Time (hh:mm:ss) Alarm : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F7: Optimized Defaults F1: General Help ACPI Suspend Type S1(POS) S3(STR) Disabled Enabled Instant-Off Delay 4 Sec. Set ACPI suspend type to S1/POS(Power On Suspend).

(Default value) Set ACPI suspend type to S3/STR(Suspend To RAM). Disable USB Device Wake-Up from S3. (Default value) Enable USB Device Wake-Up from S3. Press power button then Power off instantly. (Default value) Press power button 4 sec. to Power off. Enter suspend if button is pressed less than 4 sec. When AC-power back to the system, the system will be back to the last state before AC-power is lost. When AC-power back to the system, the system will be in "Off" state. (Default value) When AC-power back to the system, the system always in "On" state.

Enter from 1 to 8 characters to set the Keyboard Power On Password.



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Disabled this function. (Default value) If your keyboard have "POWER Key" button, you can press the key to power on the system. USB Device Wake-Up From S3 Soft-Off by PWRBTN AC BACK Function Memory Soft-Off Full-On Password Disabled Keyboard 98 Keyboard Power On GA-K8VM800M(-RH) Motherboard - 36 - Mouse Power On Disabled Enabled Disabled this function. (Default value) Double click on PS/2 mouse left button to power on the system. English PME Event Wake Up This feature requires an ATX power supply that provides at least 1A on the 5VSB lead. Disabled Disable this function. Enabled Enable PME as wake up event. (Default value) Modem Ring Resume An incoming call via modem can awake the system from any suspend state. Disabled Disable Modem Ring Resume function.

Enabled Enable Modem Ring Resume function. (Default value) Resume by Alarm You can set "Resume by Alarm" item to enabled and key in Date/Time to power on system. Disabled Disable this function. (Default value) Enabled Enable alarm function to POWER ON system. If Resume by Alarm is Enabled. Date (of Month) Alarm : Everyday, 1~31 Time (hh: mm: ss) Alarm: (0~23) : (0~59) : (0~59) - 37 - BIOS Setup English 2-5 PnP/PCI Configurations CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PnP/PCI Configurations PCI 1 IRQ Assignment PCI 2 IRQ Assignment PCI 3 IRQ Assignment [Auto] [Auto] [Auto] Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F7: Optimized Defaults F1: General Help PCI 1 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI 1. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1. Auto assign IRQ to PCI 2. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 2. Auto assign IRQ to PCI 3.

(Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 3. PCI 2 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 PCI 3 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 GA-K8VM800M(-RH) Motherboard - 38 - 2-6 PC Health Status CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PC Health Status OK OK OK OK 35°C 3125 RPM 0 RPM [Disabled] [Disabled] Item Help Menu Level English Vcore DDR25V +3.3V +12V Current CPU Temperature Current CPU FAN Speed Current SYSTEM FAN Speed CPU FAN Fail Warning SYSTEM FAN Fail Warning : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F7: Optimized Defaults F1: General Help Current Voltage(V) Vcore / DDR25V / +3.3V / +12V Detect system's voltage status automatically. Current CPU Temperature Detect CPU temperature automatically. Current CPU/SYSTEM FAN Speed (RPM) Detect CPU/SYSTEM fan speed status automatically. CPU FAN Fail Warning Disabled Enabled Disabled Enabled Disable CPU fan fail warning function. (Default value) Enable CPU fan fail warning function. Disable SYSTEM fan fail warning function. (Default value) Enable SYSTEM fan fail warning function.

SYSTEM FAN Fail Warning - 39 - BIOS Setup English 2-7 Frequency / Voltage Control CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Frequency/Voltage Control [Default] [Disabled] 200 33/66 [Auto] [Auto] Item Help Menu Level K8 CPU Clock Ratio CPU Host Clock Control x CPU Host Frequency PCI/AGP Frequency CPU OverVoltage Control AGP OverVoltage Control : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F7: Optimized Defaults F1: General Help Incorrect using these features may cause your system broken. For power end-user use only. K8 CPU Clock Ratio Default x4 800Mhz ~ x10 2000Mhz Set K8 CPU Clock Ratio to CPU factory default. (Default value) Set K8 CPU Clock Ratio from x4 800Mhz to x10 2000Mhz. CPU Host Clock Control Note: Please note that if your system is overlocked and cannot restart, please wait 20secs. for automatic system restart or clear the CMOS setup data and perform a safe restart. Disabled Disable CPU Host Clock Control.(Default value) Enabled Enable CPU Host Clock Control. CPU Host Frequency (Mhz) 200MHz ~455MHz Set CPU Host Frequency from 200MHz to 455MHz. PCI /AGP Frequency(Mhz) The values depend on CPU Host Frequency(Mhz).

CPU OverVoltage Control Auto BIOS will automatically detect CPU voltage. (Default value) +5% Set CPU OverVoltage Control to +5%. +7.5% Set CPU OverVoltage Control to +7.5%. +10% Set CPU OverVoltage Control to +10%. Incorrect using it may cause your system broken. For power End-User use only! AGP OverVoltage Control Auto BIOS will automatically detect AGP voltage. (Default value) +0.1V Set AGP OverVoltage Control to +0.

IV. +0.2V Set AGP OverVoltage Control to +0.2V. Increase AGP voltage may get stable for Over\_Clock. But it may damage to AGP Card when enable this feature. GA-K8VM800M(-RH) Motherboard - 40 - 2-8 Load Fail-Safe Defaults CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC: Quit F8: Q-Flash Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Load Fail-Safe Defaults Save & Exit Setup (Y/N)? N Exit Without Saving : Select Item F10: Save & Exit Setup Load Fail-Safe Defaults English Fail-Safe defaults contain the most appropriate values of the system parameters that allow minimum system performance. 2-9 Load Optimized Defaults CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC: Quit F8: Q-Flash Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Load Optimized Defaults (Y/N)? Exit Setup Save & N Exit Without Saving : Select Item F10: Save & Exit Setup Load Optimized Defaults Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects. - 41 - BIOS Setup English 2-10 Set Supervisor/User Password CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations Enter Password: PC Health Status Frequency/Voltage Control ESC: Quit F8: Q-Flash Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Change/Set/Disable Password When you select this function, the following message will appear at the center of the screen to assist you in creating a password. Type the password, up to eight characters, and press <Enter>.

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



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To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disabled.

Once the password is disabled, the system will boot and you can enter Setup freely. The BIOS Setup program allows you to specify two separate passwords: SUPERVISOR PASSWORD and a USER PASSWORD. When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items. If you select "System" at "Password Check" in Advance BIOS Features Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu.

If you select "Setup" at "Password Check" in Advance BIOS Features Menu, you will be prompted only when you try to enter Setup. GA-K8VM800M(-RH) Motherboard - 42 - 2-11 Save & Exit Setup CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC: Quit F8: Q-Flash Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Save to CMOS and EXIT (Y/N)? Y Saving Exit Without : Select Item F10: Save & Exit Setup Save Data to CMOS English Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS. Type "N" will return to Setup Utility. 2-12 Exit Without Saving CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC: Quit F8: Q-Flash Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Quit Without Saving (Y/N)? N Exit Setup Save & Exit Without Saving : Select Item F10: Save & Exit Setup Abandon all Data Type "Y" will quit the Setup Utility without saving to RTC CMOS. Type "N" will return to Setup Utility. - 43 - BIOS Setup English GA-K8VM800M(-RH) Motherboard - 44 - Chapter 3 Drivers Installation Pictures below are shown in Windows XP. Insert the driver CD-title that came with your motherboard into your CD-ROM drive, the driver CD-title will auto start and show the installation guide. If not, please double click the CD-ROM device icon in "My computer", and execute the Setup.exe. English 3-1 Install Chipset Drivers After insert the driver CD, "Xpress Install" will scan automatically the system and then list all the drivers that recommended to install.

The "Xpress Install" uses the "Click and Go" technology to install the drivers automatically. Just select the drivers you want then click the "GO" button. The "Xpress Install" will execute the installation for you automatically. Some device drivers will restart your system automatically. After restarting your system the "Xpress Install" will continue to install other drivers. System will reboot automatically after install the drivers, afterward you can install others application. For USB2.0 driver support under Windows XP operating system, please use Windows Service Pack. After install Windows Service Pack, it will show a question mark "?" in "Universal Serial Bus controller" under "Device Manager". Please remove the question mark and restart the system (System will auto-detect the right USB2.

0 driver). - 45 - Drivers Installation English 3-2 Software Application This page displays all the tools that Gigabyte developed and some free software. You can click an item to install it. 3-3 Software Information This page lists the contents of software and drivers in this CD-title. GA-K8VM800M(-RH) Motherboard - 46 - 3-4 Hardware Information English This page lists all device you have for this motherboard.

3-5 Contact Us Please see the last page for details. - 47 - Drivers Installation English GA-K8VM800M(-RH) Motherboard - 48 - Chapter 4 Appendix 4-1 Unique Software Utilities U-PLUS D.P.S. (Universal Plus Dual Power System) The U-Plus Dual Power System (U-Plus DPS) is a revolutionary eight-phase power circuit built for ultimate system protection.

Designed to withstand varying current levels and changes, the U-Plus D.P.S. provides an immensely durable and stable power circuit to the CPU for solid system stability. These characteristics make it the ideal companion with the latest LGA775 Intel® Pentium® 4 Processor as well as future Intel® processors. As well, 4 blue LED's are mounted on the U-Plus D.P.S. for intelligent indication of system loading. English (Not all model support these Unique Software Utilities, please check your MB features.

) M.I.T. (Motherboard Intelligent Tweaker) Motherboard Intelligent Tweaker (M.I.T.) allows user to access and change BIOS feature settings with relative speed and ease. Through GIGABYTE M.I.T.

@@2 and M.I.B. 2 features. @@@@With GIGABYTE's proprietary S.

O.S. @@Instead, S.O.S.

@@@@@to be monitored and controlled via the Internet, C.O.M. @@(Do not use C.O.M. @@@@and M.I.B. @@2.

3. 4. 5. 6. 7. 8. 9. 10. @@@@1. 2.

3. 4. 5. 6. @@When the boot partition is backed up, please do not alter its size.

@@@@@Once the computer has restarted, the phrase "Boot from CD:" will appear at the bottom left-hand corner of the screen. When "Boot from CD:" appears, press any key to enter Xpress Recovery. Once you have completed this step, subsequent access to Xpress Recovery can also function by pressing the F9 key during computer power on. . .

Verifying DMI Pool Data Boot from CD: Boot from CD: Xpress Recovery V1.0 (C) Copy Right 2003. GIGABYTE Technology CO. , Ltd. 1. Execute Backup Utility 2. Execute Restore Utility 3. Remove Backup Image 4. Set Password 5. Exit and Restart Build 2011 - 51 - Appendix English 2.

Press F9 during powering on the computer. (Text Mode) Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2004, Award Software, Inc. Intel 865PE AGPSet BIOS for 8IPE1000MT F1 Check System Health OK . . . Press DEL to enter SETUP / Q-Flash, F9 For Xpress Recovery 08/16/2002-I845GE-6A69YG01C-00 F9 For Xpress Recovery Xpress Recovery V1.0 (C) Copy Right 2003. GIGABYTE Technology CO. , Ltd.

1. Execute Backup Utility 2. Execute Restore Utility 3. Remove Backup Image 4. Set Password 5.

Exit and Restart 1. 2. 3. If you have already entered Xpress Recovery by booting from the CD-ROM, you can enter Xpress Recovery in the future by pressing the F9 key. System storage capacity as well as drive reading/writing speed will affect backup speed.

It is recommended that Xpress Recovery be immediately installed after OS and all required driver and software installations are complete.



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GA-K8VM800M(-RH) Motherboard - 52 - 1. Execute Backup Utility: Press B to Backup your System or Esc to Exit The backup utility will automatically scan your system and back up data as a backup image in your hard drive. Not all systems support access to Xpress Recovery by pressing the F9 key during computer power on. If this is the case, please use the boot from CD-ROM method to enter Xpress Recovery. English 2. Execute Restore Utility: This program will recover your system to factory default. Press R to restore your system back to factory default or press Esc to exit Restores backup image to original state.

3. Remove Backup Image: Remove backup image.

Are you sure? (Y/N) Remove the backup image. 4. Set Password: Please input a 4-16 character long password (a-z or 0-9) or press Esc to exit You can set a password to enter Xpress Recovery to protect your hard disk data. Once this is done, password input will be required to enter Xpress Recovery during the next as well as subsequent system restarts. If you wish to remove the need for password entry, please select "Set Password" and under "New Password/Confirm Password", make sure there is no entry and then press "Enter" to remove password requirement. 5. Exit and Restart: Exit and restart your computer. - 53 - Appendix English 4-1-3 Flash BIOS Method Introduction Method 1 : Q-Flash™ Utility Q-Flash™ is a BIOS flash utility embedded in Flash ROM. With this utility, users only have to stay in the BIOS menu when they want to update BIOS. Q-Flash™ allows users to flash BIOS without any utility in DOS or Windows.

Using Q-Flash™ indicating no more fooling around with any complicated instructions and operating system since it is in the BIOS menu. Please note that because updating BIOS has potential risk, please do it with caution!! We are sorry that Gigabyte Technology Co., Ltd is not responsible for damages of system because of incorrect manipulation of updating BIOS to avoid any claims from end-users. Before You Begin: Before you start updating BIOS with the Q-Flash™ utility, please follow the steps below first. 1.

2. 3. Download the latest BIOS for your motherboard from Gigabyte's website. Extract the BIOS file downloaded and save the BIOS file (the one with model name.Fxx.

For example, 8KNXPU.Fba) to a floppy disk. Reboot your PC and press Del to enter BIOS menu. The BIOS upgrading guides below are separated into two parts. If your motherboard has dual-BIOS, please refer to Part One. If your motherboard has single-BIOS, please refer to Part Two. Part One: Updating BIOS with Q-Flash™ Utility on Dual BIOS Motherboards. Some of Gigabyte motherboards are equipped with dual BIOS. In the BIOS menu of the motherboards supporting Q-Flash and Dual BIOS, the Q-Flash utility and Dual BIOS utility are combined in the same screen. This section only deals with how to use Q-Flash utility.

In the following sections, we take GA-8KNXP Ultra as the example to guide you how to flash BIOS from an older version to the latest version. For example, from Fa3 to Fba. Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2003, Award Software, Inc. The BIOS file is Fa3 before updating Intel i875P AGPset BIOS for 8KNXP Ultra Fa3 Check System Health OK , VCore = 1.5250 Main Processor : Intel Pentium(R) 4 1.6GHz (133x12) <CPUID : 0F27 Patch ID : 0027> Memory Testing : 131072K OK Memory Frequency 266 MHz in Single Channel Primary Master : FUJITSU MPE3170AT ED-03-08 Primary Slave : None Secondary Master : CREATIVEDVD-RM DVD1242E BC101 Secondary Slave : None Press DEL to enter SETUP / Dual BIOS / Q-Flash / F9 For Xpress Recovery 08/07/2003-i875P-6A79BG03C-00 GA-K8VM800M(-RH) Motherboard - 54 - Entering the Q-Flash™ utility: Step1: To use Q-Flash utility, you must press Del in the boot screen to enter BIOS menu. CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status MB Intelligent Tweaker(M.I.T.

) ESC: Quit F8: Dual BIOS/Q-Flash Select Language Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving F3: Change Language F10: Save & Exit Setup Time, Date, Hard Disk Type... English Step 2: Press F8 button on your keyboard and then Y button to enter the Dual BIOS/Q-Flash utility. Exploring the Q-Flash™ / Dual BIOS utility screen The Q-Flash / Dual BIOS utility screen consists of the following key components.

Dual BIOS Utility Boot From.....  
.....  
.....  
.....  
.....  
..... Main Bios Main ROM Type/Size....

.....  
.....  
.....  
.....SST 49LF003A Backup ROM Type/Size.....

.....  
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SST 49LF003A Dual BIOS utility bar 512K 512K Task menu for Dual BIOS utility Task menu for Q-Flash™ utility Wide Range Protection Disable Boot From Main Bios Auto Recovery Enable Halt On Error Disable Copy Main ROM Data to Backup Load Default Settings Save Settings to CMOS Q-Flash Utility Load Main BIOS from Floppy Load Backup BIOS from Floppy Save Main BIOS to Floppy Save Backup BIOS to Floppy Enter : Run :Move ESC:Reset F10:Power Off Q-Flash™ utility title bar Action bar Task menu for Dual BIOS utility: Contains the names of eight tasks and two item showing information about the BIOS ROM type. Blocking a task and pressing Enter key on your keyboard to enable execution of the task. Task menu for Q-Flash utility: Contains the names of four tasks. Blocking a task and pressing Enter key on your keyboard to enable execution of the task. Action bar: Contains the names of four actions needed to operate the Q-Flash/Dual BIOS utility. Pressing the buttons mentioned on your keyboards to perform these actions. - 55 - Appendix English Using the Q-Flash™ utility: This section tells you how to update BIOS using the Q-Flash utility. As described in the "Before you begin" section above, you must prepare a floppy disk having the BIOS file for your motherboard and insert it to your computer. If you have already put the floppy disk into your system and have entered the Q-Flash utility, please follow the steps below to flash BIOS. Steps: 1.

Press arrow buttons on your keyboard to move the light bar to "Load Main BIOS from Floppy" item in the Q-Flash menu and press Enter button. Later, you will see a box pop up showing the BIOS files you previously downloaded to the floppy disk. If you want to save the current BIOS for backup purpose, you can

begin Step 1 with "Save Main BIOS to Floppy" item. 2. Move to the BIOS file you want to flash and press Enter. In this example, we only download one BIOS file to the floppy disk so only one BIOS file, 8KNXPU.Fba, is listed. Please confirm again you have the correct BIOS file for your motherboard. Dual BIOS

Utility Boot From..

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.... Main Bios Main ROM Type/Size.

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...SST 49LF003A 512K 512K Wide Range Protection Disable 1 file(s) found Boot From Main Bios 8KNXPU.Fba 512K Auto Recovery Enable Halt On Error Disable Total size Copy Main ROM Data to Backup : 1.



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39M Free size : 911.50K F5 : Refresh DEL : Load Default Settings>Delete Save Settings to CMOS Q-Flash Utility Load Main BIOS from Floppy Load Backup BIOS from Floppy Save Main BIOS to Floppy Save Backup BIOS to Floppy Enter : Run :Move ESC:Reset F10:Power Off BIOS file in the floppy disk. After pressing Enter, you'll then see the progress of reading the BIOS file from the floppy disk. Dual BIOS Utility Boot From..

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.....SST 49LF003A Wide Range Protection Disable Boot From Main Bios Reading BIOS file from floppy ... Auto Recovery Enable >>>>>>>>>>>>>>>>>>....

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.. Halt On Error Disable Copy Main ROM Data to Backup Don't Turn Off Power or Reset System Load Default Settings Save Settings to CMOS Q-Flash Utility Load Main BIOS from Floppy Load Backup BIOS from Floppy Save Main BIOS to Floppy Save Backup BIOS to Floppy :Move ESC:Reset F10:Power Off 512K 512K Do not turn off power or reset your system at this stage!! Enter : Run After BIOS file is read, you'll see a confirmation dialog box asking you "Are you sure to update BIOS?" GA-K8VM800M(-RH) Motherboard - 56 - 3. Press Y button on your keyboard after you are sure to update BIOS. Then it will begin to update BIOS.

The progress of updating BIOS will be displayed. Please do not take out the floppy disk when it begins flashing BIOS. 4. Press any keys to return to the Q-Flash menu when the BIOS updating procedure is completed. Dual BIOS Utility Boot From.....

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.....SST 49LF003A English 512K 512K Wide Range Protection Disable Boot From Main Bios Auto Recovery Enable !! Copy BIOS completed - Pass !! Halt On Error Disable Copy Main ROM Data to continue Please press any key Backup Load Default Settings Save Settings to CMOS Q-Flash Utility Load Main BIOS from Floppy Load Backup BIOS from Floppy Save Main BIOS to Floppy Save Backup BIOS to Floppy Enter : Run :Move ESC:Reset F10:Power Off You can repeat Step 1 to 4 to flash the backup BIOS, too.

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

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.....SST 49LF003A 512K 512K Wide Range Protection Disable Boot From Main Bios Auto Recovery Enable Are you sure to RESET ? Halt On Error Disable Copy Main ROM Data to Backup [Enter] to continue or [Esc] to abort..  
. Load Default Settings Save Settings to CMOS Q-Flash Utility Load Main BIOS from Floppy Load Backup BIOS from Floppy Save Main BIOS to Floppy Save Backup BIOS to Floppy Enter : Run :Move ESC:Reset F10:Power Off After system reboots, you may find the BIOS version on your boot screen becomes

the one you flashed. Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2003, Award Software, Inc. The BIOS file becomes Fab after updating.

Intel i875P AGPset BIOS for 8KXP Ultra Fba Check System Health OK , VCore = 1.5250 Main Processor : Intel Pentium(R) 4 1.6GHz (133x12) <CPUID : 0F27 Patch ID : 0027> Memory Testing : 131072K OK Memory Frequency 266 MHz in Single Channel Primary Master : FUJITSU MPE3170AT ED-03-08 Primary Slave : None Secondary Master : CREATIVEDVD-RM DVD1242E BC101 Secondary Slave : None Press DEL to enter SETUP / Dual BIOS / Q-Flash / F9 For Xpress Recovery 09/23/2003-i875P-6A79BG03C-00 - 57 - Appendix English 6. Press Del to enter BIOS menu after system reboots. When you are in BIOS menu, move to Load Optimized Defaults item and press Enter to load BIOS Optimized Defaults.

Normally the system redetects all devices after BIOS has been upgraded. Therefore, we highly recommend reloading the BIOS defaults after BIOS has been upgraded. CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Standard CMOS Features Select Language Advanced BIOS Features Load Fail-Safe Defaults Integrated Peripherals Load Optimized Defaults Power Management Setup Set Supervisor Password Load Optimized Defaults (Y/N)? Y Password PnP/PCI Configurations Set User PC Health Status Save & Exit Setup MB Intelligent Tweaker(M.I.T.) Exit Without Saving ESC: Quit F8: Dual BIOS/Q-Flash F3: Change Language F10: Save & Exit Setup Load Optimized Defaults Press Y on your keyboard to load defaults. 7. Select Save & Exit Setup item to save the settings to CMOS and exit the BIOS menu. System will reboot after you exit the BIOS menu. The procedure is completed.

CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Standard CMOS Features Select Language Advanced BIOS Features Load Fail-Safe Defaults Integrated Peripherals Load Optimized Defaults Power Management Setup Save to CMOS and EXIT (Y/N)? Y Set Supervisor Password PnP/PCI Configurations Set User Password PC Health Status Save & Exit Setup MB Intelligent Tweaker(M.I.T.) Exit Without Saving ESC: Quit F8: Dual BIOS/Q-Flash F3: Change Language F10: Save & Exit Setup Save Data to CMOS Press Y on your keyboard to save and exit. Part Two: Updating BIOS with Q-FlashTM Utility on Single-BIOS Motherboards. This part guides users of single-BIOS motherboards how to update BIOS using the Q-FlashTM utility. CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status MB Intelligent Tweaker(M.I.T.) ESC: Quit F8: Q-Flash Top Performance Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving F3: Change Language F10: Save & Exit Setup Time, Date, Hard Disk Type.

.. GA-K8VM800M(-RH) Motherboard - 58 - Exploring the Q-FlashTM utility screen The Q-FlashBIOS utility screen consists of the following key components.  
Q-Flash Utility V1.30 Flash Type/Size.

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..SST 49LF003A English Q-FlashTM utility bar 256K Task menu for Q-FlashTM utility Enter : Run Keep DMI Data Enable Update BIOS from Floppy Save BIOS to Floppy :Move ESC:Reset F10:Power Off Action bar Task menu for Q-Flash utility: Contains the names of three tasks. Blocking a task and pressing Enter key on your keyboard to enable execution of the task. Action bar: Contains the names of four actions needed to operate the Q-Flash utility.

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

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



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