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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-K8NS. You'll find the answers to all your questions on the GIGABYTE GA-K8NS 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-K8NS
User guide GIGABYTE GA-K8NS
Operating instructions GIGABYTE GA-K8NS
Instructions for use GIGABYTE GA-K8NS
Instruction manual GIGABYTE GA-K8NS

GA-K8NS (rev. 2.0)

AMD Socket 754 Processor Motherboard

User's Manual

Rev. 2002
12ME-K8NS-2002



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Manual abstract:

@@@1, 2005 Jun. 1, 2005 Copyright © 2005 GIGA-BYTE TECHNOLOGY CO., LTD. All rights reserved. @@@@Specifications and features are subject to change without prior notice. Product Manual Classification In order to assist in the use of this product, Gigabyte has categorized the user manual in the following: For quick installation, please refer to the "Hardware Installation Guide" included with the product. For detailed product information and specifications, please carefully read the "Product User Manual". For detailed information related to Gigabyte's unique features, please go to the "Technology Guide" section on Gigabyte's website to read or download the information you need. For more product details, please click onto Gigabyte's website at www.gigabyte.com.tw

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0) *Motherboard Layout* KB_MS SYS_FAN R_USB ATX_12V ATX FDD COMA USB COMB LAN LPT Socket 754 AUDIO1 F_AUDIO CPU_FAN GA-K8NS DDR1 DDR2 SATA0_SB SATA1_SB DDR3 IDE2 CLR_CMOS IT8712 ICS 1883 AGP PCI1 BATTERY nVIDIA® nForceTM 3 250 PCI2 SUR_CEN PCI3 CD_IN PCI4 SPDIF_IO BIOS F_USB2 F_USB1 CODEC PCIS F_PANEL PWR_LED -6- IDE1 Block Diagram CPUCLK+/(200MHz) DDR 400/333MHz DIMM DDR RAM Hyper Transport Bus AGP Slot 4X / 8X AGPCLK (66MHz) AMD K8 Socket 754 CPU BIOS LAN RJ45 ICS 1883 5 PCI LPC BUS PCI Bus IT8712 nVIDIA® nForce3 250 2 Serial ATA ATA33/66/100/133 IDE Channels Floppy LPT Port COM Ports AC97 Link PS/2 KB/Mouse 24MHz 33MHz CODEC MIC Line-Out Line-In PCICLK (33MHz) 8 USB Ports -7- -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 a 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 Feature Summary* GA-K8NS rev. 2.0 Socket 754 for AMD Athlon™ 64 processor (K8) 1600MHz system bus Supports core frequencies in excess of 2800+ and faster nVIDIA® nForce3™ 250 Chipset Supported on the Win 2000/XP operating systems 3 DDR DIMM memory slots (supports up to 3GB memory) Supports DDR 400/333/266/200 DIMM Supports DDR DIMM 1 AGP slot supports 8X/4X(1.5V) mode 5 PCI slots 2 IDE connection (UDMA 33/ATA 66/ATA 100/ATA 133), allows connection of 4 IDE devices Supported on the Win 2000/XP operating systems 1 FDD connection, allows connection of 2 FDD devices 2 Serial ATA connections Supported on the Win 2000/XP operating systems 1 parallel port supporting Normal/EPP/ECP mode 2 serial ports (COMA, COMB) 8 USB 2.0/1.1 ports (rear x 4, front x 4 via cable) 1 front audio connector 1 PS/2 keyboard port 1 PS/2 mouse port Onboard ICS 1883 chip (10/100 Mbit) 1 RJ 45 port Supported on the Win 2000/XP operating systems ALC850 CODEC (UAJ) Supports Jack Sensing function Supports 2 / 4 / 6 / 8 channel audio (Note 1) Supports Line In ; Line Out ; MIC In Surround Back Speaker (by optional Audio Combo Kit) SPDIF In/Out connection CD In connection Supported on the Win 2000/XP operating systems Motherboard CPU Chipset Memory Slots IDE Connections FDD Connections Onboard SATA Peripherals Onboard LAN Onboard Audio (Note 1) To set up an 8 channel audio configuration, you must use Audio Combo Kit (optional device). GA-K8NS(rev. 2.0) Motherboard - 10 - I/O Control Hardware Monitor Onboard SATA RAID BIOS Additional Features Overclocking Form Factor IT8712 System voltage detection CPU temperature detection CPU / System fan speed detection CPU warning temperature CPU / System fan failure warning Thermal shutdown function Onboard nVIDIA® nForce3™ 250 chipset (SATA0_SB, SATA1_SB) supports data striping (RAID 0) or mirroring (RAID 1) or striping + mirroring (RAID 0+1) function supports data transfer rate of up 150 MB/s supports a maximum of 2 SATA connections Supported on the Win 2000/XP operating systems Use of licensed AWARD BIOS Supports Q-Flash Supports @BIOS Supports EasyTune 5(Note 2) Over Voltage via BIOS (CPU/DDR/ VDDQ(AGP)) Over Clock via BIOS (CPU/ AGP) ATX form factor; 29.



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4cm x 23.

7cm English (Note 2) EasyTune 5 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° 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 shown in Figure 2. Align the processor to the socket and gently lower it into place.

Do not force the processor into the socket. Socket lever Fig.1 Position levner, 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, COMB (Serial Port) Connects to serial-based mouse or data processing devices. LAN Port The provided Internet connection is Gigabit Ethernet, providing data transfer speeds of 10/100/1000Mbps. Line In Devices like CD-ROM, walkman etc. can be connected to Line In jack.

Line Out Connect the stereo speakers, earphone or front surround speakers to this connector. MIC In Microphone can be connected to MIC In jack. You can use audio software to configure 2-/4-/6-/8-channel audio functioning. GA-K8NS(rev. 2).

0) Motherboard - 16 - 1-7 Connectors Introduction 13 7 2 4 English 5 6 11 16 9 12 13 15 14 8 10 1) 2) 3) 4) 5) 6) 7) 8) ATX_12V ATX (Power Connector) CPU_FAN SYS_FAN FDD IDE1 / IDE2 SATA0_SB / SATA1_SB PWR_LED 9) 10) 11) 12) 13) 14) 15) 16) BATTERY F_PANEL F_AUDIO CD_IN SUR_CEN SPDIF_IO F_USB1 / F_USB2 CLR_CMOS - 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. Pin No. 1 3 1 4 2 Definition GND GND +12V +12V Definition 3.

3V 3.3V GND +5V GND +5V GND Power Good 5V SB (stand by +5V) +12V 3.3V -12V GND PS_ON(soft on/off) GND GND GND -5V +5V +5V 2 3 4 Pin No. 1 11 1 2 3 4 5 6 7 8 9 10 11 20 10 12 13 14 15 16 17 18 19 20 GA-K8NS(rev. 2.0) 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. Pin No. 1 2 1 CPU_FAN 1 English Definition GND +12V Sense 3 SYS_FAN 5) FDD (Floppy Connector) The FDD connector is used to connect the FDD cable while the other end of the cable connects to the FDD drive. The types of FDD drives supported are: 360KB, 720KB, 1.2MB, 1.

44MB and 2.88MB. Please connect the red power connector wire to the pin1 position. 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). 40 39 2 IDE2 IDE1 1 7) SATA0_SB / SATA1_SB (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 1 7 Definition GND TXP TXN GND RXN RXP GND 2 3 4 5 6 7 GA-K8NS(rev. 2.0) Motherboard - 20 - 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. English Pin No. 1 1 Definition MPD+ MPDMPD- 2 3 9) 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. Take out the battery gently and put it aside for about 10 minutes (Or you can use a metal object to connect the positive and negative pins in the battery holder to make them short for one minute). 3.

Re-install the battery. 4. Plug the power cord and turn ON the computer. - 21 - Hardware Installation English 10) 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.

Message LED/ Power/ Sleep LED Power Switch Speaker Connector PW+ PW- SPEAK+ SPEAK- 2 1 NC RES+ RESHDHD+ IDE Hard Disk Active LED MSGMSG+ 20 19 Reset Switch HD (IDE Hard Disk Active LED) (Blue) SPEAK (Speaker Connector) (Amber) RES (Reset Switch) (Green) PW (Power Switch) (Red) MSG (Message LED/Power/Sleep LED) (Yellow) NC (Purple) Pin 1: LED anode(+) Pin 2: LED cathode(-) Pin 1: Power(+) Pin 2- Pin 3: NC Pin 4: Data(-) Open: Normal Operation Close: Reset Hardware System Open: Normal Operation Close: Power On/Off Pin 1: LED anode(+) Pin 2: LED cathode(-) NC GA-K8NS(rev.



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2.0) Motherboard - 22 - 11) 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 10 9 English Definition MIC GND MIC_BIAS Power Front Audio(R) Rear Audio(R)/Return R NC No Pin Front Audio(L) Rear Audio(L)/Return L 2 3 4 5 6 7 8 9 10 2 1 12) CD_IN (CD In Connector) Connect CD-ROM or DVD-ROM audio out to the connector. 1 Pin No. 1 2 3 4 Definition CD-L GND GND CD-R - 23 - Hardware Installation English 13) SUR_CEN (Surround Center Connector) Please contact your nearest dealer for optional SUR_CEN cable. Pin No. 8 2 7 1 Definition SUR OUTL SUR OUTF GND No Pin CENTER_OUT BASS_OUT AUX_L AUX_R 1 2 3 4 5 6 7 8 14) 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 and output 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. 2 6 Definition Power No Pin SPDIF SPDIFI GND GND 1 2 3 4 5 6 1 5 GA-K8NS(rev. 2.0) Motherboard - 24 - 15) 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 3 2 1 English 10 9 Definition Power Power USB DXUSB DyUSB DX+ USB Dy+ GND GND No Pin NC 4 5 6 7 8 9 10 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 GA-K8NS(rev. 2.

0) 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 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> <> > 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 Optimized Defaults Q-Flash utility System Information Save all the CMOS changes, only for Main Menu <Page Up> <Page Down> <F1> <F2> <F5> <F7> <F8> <F9> <F10> 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. : F13) 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 Top Performance 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. Advanced BIOS Features This setup page includes all the items of Award special enhanced features. Integrated Peripherals This setup page includes all onboard peripherals. Power Management Setup This setup page includes all the items of Green function features. PnP/PCI Configuration This setup page includes all the configurations of PCI & PnP ISA resources.

PC Health Status This setup page is the System auto detect Temperature, voltage, fan, speed. Frequency/Voltage Control This setup page is control CPU clock and frequency ratio. Top Performance If you wish to maximize the performance of your system, set "Top Performance" as "Enabled". GA-K8NS(rev. 2.

0) 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.



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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 Halt On Floppy 3 Mode Support Tue, May 17 2005 22:31:24 [None] [None] [None] [None] [None] [None] [1.44M, 3.5"] [None] [All, But Keyboard] [Disabled] 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) <Year> 1999 to 2098 : Move Enter: Select +/-/PU/PD: Value F5: Previous Values 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 Master/Slave; IDE Channel 1 Master/Slave IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection. IDE Channel 0 Master/Slave; IDE Channel 1 Master/Slave IDE devices setup.

You can use one of three methods: · Auto Allows BIOS to automatically detect IDE devices during POST. (Default value) · 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 IDE devices setup. You can use one of two methods: · Auto Allows BIOS to automatically detect SATA IDE devices during POST(default) · 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.

GA-K8NS(rev. 2.0) Motherboard - 30 - Use this to set the access mode for the hard drive.

The two options are: Large/Auto(default:Auto) Capacity Capacity of currently installed hard drive. Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information. Cylinder Number of cylinders Head Number of heads Precomp Write precomp Landing Zone Landing zone Sector Number of sectors Access Mode 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. 2.88M, 3.

5" 3.5 inch double-sided drive; 2.88M byte capacity. 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. 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. - 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 Boot Up Floppy Seek Password Check Init Display First [Press Enter] [Floppy] [Hard Disk] [CDROM] [Disabled] [Setup] [AGP] Item Help Menu Level Select Hard Disk Boot Device Priority : Move Enter: Select +/-/PU/PD: Value F5: Previous Values 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 LAN Disabled Select your boot device priority by Floppy. Select your boot device priority by LS120. 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 LAN. Disable this function. Boot Up Floppy Seek During POST, BIOS will determine the floppy disk drive installed is 40 or 80 tracks. 360K type is 40 tracks 720K, 1.2M and 1.

44M are all 80 tracks. Enabled BIOS searches for floppy disk drive to determine it is 40 or 80 tracks. Note that BIOS can not tell from 720K, 1.2M or 1.44M drive type as they are all 80 tracks.

Disabled BIOS will not search for the type of floppy disk drive by track number. Note that there will not be any warning message if the drive installed is 360K. (Default value) GA-K8NS(rev. 2.0) Motherboard - 32 - Password Check Setup System The system will boot but will not access to Setup page if the correct password is not entered at the prompt. (Default value) The system will not boot and will not access to Setup page if the correct password is not entered at the prompt. English Init Display First This feature allows you to select the first initiation of the monitor display from which card when you install an AGP card and a PCI VGA card on the motherboard. AGP Set Init display first to AGP. (Default value) PCI slot Set Init display first to PCI. - 33 - BIOS Setup English 2-3 Integrated Peripherals CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Integrated Peripherals [Press Enter] [Enabled] [Enabled] [Auto] [Disabled] [V1].



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1+V2.0] [Disabled] [Disabled] [Enabled] [Auto] [3F8/IRQ4] [2F8/IRQ3] [378/IRQ7] [SPP] 3 [Enabled] Item Help Menu Level IDE Function Setup On-Chip Primary PCI IDE On-Chip Secondary PCI IDE On-Chip LAN(nVIDIA) On-Chip LAN BOOT ROM USB Host Controller USB Keyboard Support USB Mouse Support Serial-ATA 2(Internal PHY) AC97 Audio Onboard Serial Port 1 Onboard Serial Port 2 Onboard Parallel Port Parallel Port Mode x ECP Mode Use DMA IDE DMA transfer : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help IDE Function Setup CMOS Setup Utility-Copyright (C) 1984-2005 Award Software IDE Function Setup IDE RAID IDE Channel0 Master RAID IDE Channel0 Slave RAID IDE Channel1 Master RAID IDE Channel1 Slave RAID SATA Primary Master RAID SATA Secndry Master RAID [Enabled] [Disabled] [Disabled] [Disabled] [Disabled] [Disabled] Item Help Menu Level : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help IDE RAID Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enable IDE RAID function. Disable this function. (Default value) Enable 1st master channel IDE RAID function. Disable this function. (Default value) Enable 1st slave channel IDE RAID function. Disable this function. (Default value) Enable 2nd master channel IDE RAID function. Disable this function. (Default value) IDE Channel 0 Master RAID IDE Channel 0 Slave RAID IDE Channel 1 Master RAID GA-K8NS(rev.

2.0) Motherboard - 34 - IDE Channel 1 Slave RAID Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Auto Disabled Enable 2nd slave channel IDE RAID function. Disable this function. (Default value) Enable 1st SATA RAID function. Disable this function. (Default value) Enable 2nd SATA RAID function. Disable this function. (Default value) Enable onboard AC97 audio function. (Default value) Disable onboard AC97 audio 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. Auto-detect onboard LAN function. (Default value) Disable onboard LAN function. English SATA Primary Master RAID SATA Secndry Master RAID On-Chip Primary PCI IDE On-Chip Secondary PCI IDE On-Chip LAN (nVIDIA) On-Chip LAN BOOT ROM This function decide whether to invoke the boot ROM of the onboard LAN chip. Enabled Enable this function. Disabled Disable this function. (Default value) USB Host Controller Disabled V1.1+V2.

0 V1.1 Enabled Disabled Enabled Disabled Enabled Disabled Disable this function if you are not using onboard USB function. Enable USB 1.1 and USB 2.0 controller. (Default value) Only enable USB 1.1 controller. Enable USB keyboard support. Disable USB keyboard support. (Default value) Enable USB mouse support. (Default value) Disable USB mouse support. (Default value) Enable Serial ATA supported. (Default value) Disable Serial ATA supported. Enable onboard AC'97 audio function. (Default value) Disable this function.

USB Keyboard Support USB Mouse Support Serial-ATA 2 (Internal PHY) AC97 Audio Auto Disabled - 35 - BIOS Setup English Onboard Serial Port 1 Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Disabled 378/IRQ7 278/IRQ5 3BC/IRQ7 SPP EPP ECP ECP+EPP 3 1 Enabled Disabled BIOS will automatically setup the 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. BIOS will automatically setup the port 1 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. 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 ECP Mode Use DMA to 3. (Default value) Set ECP Mode Use DMA to 1. Detect the IDE UDMA automatically. (Default value) Disable this function. Onboard Serial Port 2 Onboard Parallel Port Parallel Port Mode ECP Mode Use DMA IDE DMA transfer GA-K8NS(rev.

2.0) Motherboard - 36 - 2-4 Power Management Setup CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Power Management Setup [S1(POS)] [Instant-Off] [Disabled] [Disabled] [Disabled] [Disabled] Everyday 0:0:0 [Disabled] [Disabled] Enter [Soft-Off] Item Help Menu Level English ACPI Suspend Type Soft-Off by PWR-BTTN PME Event Wake Up Modem Ring On S3 Resume by USB device Resume by Alarm x Day of Month Alarm x Time (hh:mm:ss) Alarm Power On by Mouse Power On by Keyboard x KB Power ON Password AC BACK Function : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help ACPI Suspend Type S1(POS) S3(STR) Set ACPI suspend type to S1/POS(Power On Suspend). (Default value) Set ACPI suspend type to S3/STR(Suspend To RAM). Soft-off by PWR-BTTN Instant-off Press power button then Power off instantly. (Default value) Delay 4 Sec. Press power button 4 sec. to Power off. Enter suspend if button is pressed less than 4 sec. PME Event Wake Up 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 On An incoming call via modem can awake the system from any suspend state. Disabled Disable Modem Ring on function. (Default value) Enabled Enable Modem Ring on function. S3 Resume by USB device Disabled Enable Disable this function. (Default value) Enable USB device wake up system from S3 suspend type. 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 RTC Alarm Lead To Power On is Enabled.

Day of Month Alarm : Everyday, 1~31 Time (hh: mm: ss) Alarm : (0~23) : (0~59) : (0~59) - 37 - BIOS Setup English Power On by Mouse Disabled Double Click Password Disabled Any KEY Keyboard 98 Disable this function. (Default value) Double click on PS/2 mouse left button to power on the system. Enter from 1 to 5 characters to set the Keyboard Power On Password. Disable this function. (Default value) Press any key to power on the system. If your keyboard have "POWER Key" button, you can press the key to power on the system.



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Power On by Keyboard KB Power ON Password When "Power On by Keyboard" set at Password, you can set the password here. Enter Input password (from 1 to 5 characters) and press Enter to set the Keyboard Power On password. AC BACK Function Soft-Off Full-On 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.

GA-K8NS(rev. 2.0) Motherboard - 38 - 2-5 PnP/PCI Configurations CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PnP/PCI Configurations PCI PCI PCI PCI 3 IRQ Assignment 4 IRQ Assignment 1/5 IRQ Assignment 2 IRQ Assignment [Auto] [Auto] [Auto] [Auto] Item Help Menu Level English : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help PCI 3 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI 3. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 3. Auto assign IRQ to PCI 4. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 4. Auto assign IRQ to PCI 1/PCI 5. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1/PCI 5. Auto assign IRQ to PCI 2. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 2.

PCI 4 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 PCI 1/5 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 PCI 2 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 - 39 - BIOS Setup English 2-6 PC Health Status CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PC Health Status Vcore DDR25V +3.3V +12V Current CPU Temperature Current CPU FAN Speed Current SYSTEM FAN Speed CPU Warning Temperature CPU FAN Fail Warning SYSTEM FAN Fail Warning OK OK OK OK 36 oC 3245 RPM 0 RPM [Disabled] [Disabled] [Disabled] Item Help Menu Level : Move Enter: Select +/-/PU/PD: Value F5: Previous Values 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 Warning Temperature 60 o C / 140 o F 70 o C / 158 o F 80 o C / 176 o F 90 o C / 194 o F Disabled Disabled Enabled Monitor CPU temperature at 60o C / 140oF. Monitor CPU temperature at 70o C / 158oF. Monitor CPU temperature at 80o C / 176oF. Monitor CPU temperature at 90o C / 194oF. Disable this function.

(Default value) Disable CPU/SYSTEM fan fail warning function. (Default value) Enable CPU/SYSTEM fan fail warning function. CPU/SYSTEM FAN Fail Warning GA-K8NS(rev. 2.0) Motherboard - 40 - 2-7 Frequency/Voltage Control CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Frequency/Voltage Control CPU OverClock in MHz AGP OverClock in MHz K8 CPU Clock Ratio CPU Voltage Control VDDQ (AGP) Voltage Control DDR voltage control [200] [66] [Default] [Normal] [Normal] [Normal] Item Help Menu Level English : Move Enter: Select +/-/PU/PD: Value F5: Previous Values 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. CPU OverClock in MHz 200MHz ~ 455MHz Increase CPU frequency as user selected. Increase AGP frequency as user selected. AGP OverClock in MHz 66MHz ~ 100MHz K8 CPU Clock Ratio Default Set K8 CPU Clock Ratio to CPU factory default. (Default value) x4 800Mhz ~ x10 2000Mhz. Set K8 CPU Clock Ratio from x4 800Mhz to x10 2000Mhz. CPU Voltage Control Normal +5% +7.5% +10% Normal +0.1v +0.2v +0.3v Set VDDQ(AGP) voltage as AGP required. (Default value) Increase CPU voltage +5%. Increase CPU voltage +7.5%. Increase CPU voltage +10%. Set VDDQ(AGP) voltage as AGP required. (Default value) Increase VDDQ(AGP) voltage +0.1V. Increase VDDQ(AGP) voltage +0.2V. Increase VDDQ(AGP) voltage +0.3V. Supply DDR voltage as DDR required. (Default value) Increase DDR voltage +0.1V.

Increase DDR voltage +0.2V. VDDQ (AGP) Voltage Control DDR voltage control Normal +0.1v +0.2v - 41 - BIOS Setup English 2-8 Top Performance CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Top Performance Power Management Setup PnP/PCI Configurations Disabled.....

.....
.....
.....[] PC Health Status Enabled.
.....
.....
.....
.....[] Frequency/Voltage Control ESC: Quit F8: Q-Flash Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item : Move ENTER: Accept Save & Exit Setup F10: ESC: Abort System will be set in best performance configuration .. If you wish to maximize the performance of your system, set "Top Performance" as "Enabled". Disabled Disable this function. (Default Value) Enabled Enable Top Performance function.

"Top Performance" will increase hardware working speed. Different system configuration (both hardware component and OS) will effect the result. For example, the same hardware configuration might not run properly with Windows XP, but works smoothly with Windows NT. Therefore, if your system is not perform enough, the reliability or stability problem will appear sometimes, and we will recommend you disabling the option to avoid the problem as mentioned above. 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 Optimized Defaults Top Performance 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 Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects. GA-K8NS(rev. 2.0) Motherboard - 42 - 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 Enter Password: PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC: Quit F8: Q-Flash Top Performance 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 English 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.



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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.

- 43 - BIOS Setup English 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 Save Data to CMOS Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Save to CMOS and EXIT (Y/N)? Exit Setup Save & Y Exit Without Saving : Select Item F10: Save & Exit Setup Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS. Type "N" will return to Setup Utility. 2-12 Exit Without Saving CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC: Quit F8: Q-Flash Abandon all Data Top Performance 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 Type "Y" will quit the Setup Utility without saving to RTC CMOS. Type "N" will return to Setup Utility. GA-K8NS(rev. 2.0) 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-K8NS(rev. 2.0) 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-K8NS(rev.

2.0) Motherboard - 48 - Chapter 4 Appendix 4-1 Unique Software Utilities 4-1-1 EasyTune 5 Introduction EasyTune 5 presents the most convenient Windows based system performance enhancement and manageability utility. @@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. @@@@1. 2. 3. 4. 5. 6. @@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 GA-K8NS(rev.

@@@Intel 865PE AGPSet BIOS for 8IPE1000MT F1 Check System Health OK . . . @@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. @@@@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. GA-K8NS(rev. 2.

0) Motherboard - 52 - 4-1-3 Flash BIOS Method Introduction Method 1 : Q-FlashTM Utility Q-Flash TM 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 TM allows users to flash BIOS without any utility in DOS or TM 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. English Before You Begin: Before you start updating BIOS with the Q-Flash TM 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.



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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 - 53 - Appendix English 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..

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 49LF004A Backup ROM Type/Size.....
```

.....
. SST 49LF004A 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. GA-K8NS(rev. 2.0) Motherboard - 54 - 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. English 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.....

```
....
....
.....

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

....
....
.....

. SST 49LF004A Backup ROM Type/Size.....
```

.... SST 49LF004A 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 : 1.39M 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.....

```
.....
....
....
.....
```


