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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-8IPE1000-G. You'll find the answers to all your questions on the GIGABYTE GA-8IPE1000-G 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-8IPE1000-G
User guide GIGABYTE GA-8IPE1000-G
Operating instructions GIGABYTE GA-8IPE1000-G
Instructions for use GIGABYTE GA-8IPE1000-G
Instruction manual GIGABYTE GA-8IPE1000-G

GA-8IPE1000 Series

Intel® Pentium® 4 Processor Motherboard

User's Manual

Rev. 4002
12ME-8IPE1K4-4002



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Manual abstract:

11. 2004 Copyright © 2004 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. Fore more product details, please click onto Gigabyte's website at www.gigabyte.com.tw Table of Contents GA-8IPE1000 Series Motherboard Layout

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73 -5- GA-8IPE1000 Series Motherboard Layout DDR1 DDR2 DDR3 DDR4 KB_MS Socket 478 USB CPU_FAN COMA COMB LPT GA-IPE1000(-G)(-L) ATX USB MIC_IN LINE_OUT LINE_IN LAN ATX_12V Intel 865PE CD_IN RTL8110S or RTL8100C AGP F_AUDIO BATTERY PCII CLR_CMOS CODEC PCI2 Intel ICH5 FDD SUR_CEN SMSC LPC47M997-NR PCI3 BIOS PCI4 IDE2 IR PCI5 F_USB2 F_USB1 SPDIF_IO INFO_LINK PWR_LED IDE1 F_PANEL SATA0 SATA1 GAME SYS_FAN Only for GA-8IPE1000-G. Only for GA-8IPE1000-L. -6- Block Diagram Pentium 4 Socket 478 CPU AGP 4X/8X System Bus 400/533/800 MHz Dual Channel DDR 400/333/266MHz DIMM DDR HCLK+/- (100/133/200MHz) RJ45 5 PCI RTL8110S RTL8100C RJ45 ZCLK (66 MHz) 33MHz 14.318MHz 48MHz 66MHz BIOS Intel ICH5 AC97 Link CPUCLK+/- (100/133/200MHz) AGPCLK 66MHz Intel 865PE PCI Bus 33MHz Game Port SMSC LPC47M997NR Floppy LPT Port 2 COM Ports PCICLK (33MHz) CODEC 2 Serial ATA 8 USB Ports ATA33/66/100 IDE Channels 14MHz PS/2 KB/Mouse Line In Only for GA-8IPE1000-G. Only for GA-8IPE1000-L.

-7- Line Out Mic 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 you 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-8IPE1000-G or GA-8IPE1000-L or GA-8IPE1000 Socket 478 for Intel® Pentium® 4 (Northwood, Prescott) with HT Technology Supports 800/533/400MHz FSB L2 cache varies with CPU Northbridge: Intel® 865PE Chipset Southbridge: Intel® ICH5 4 DDR DIMM memory slots (supports up to 4GB memory) (Note) Supports dual channel DDR 400/333/266 DIMM Supports 2.5V DDR DIMM 1 AGP slot supports 8X/4X(1.5V) mode 5 PCI slots 2 IDE connection (UDMA 33/ATA 66/ATA 100), allows connection of 4 IDE devices 1 FDD connection, allows connection of 2 FDD devices 2 Serial ATA ports from ICH5 (SATA0, SATA1) 1 parallel port supporting Normal/EPP/ECP mode 2 serial ports (COMA and COMB) 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 Onboard RTL8110S chip (10/100/1000 Mbit) Onboard RTL8100C chip (10/100 Mbit) 1 RJ 45 port ALC850 CODEC (UAJ) Supports Jack Sensing function Supports 2 / 4 / 6 / 8 channel audio Supports Line In ; Line Out ; MIC Surround Back Speaker (by optional Surround-kit) SPDIF In/Out connection CD In / Game connection Motherboard CPU Chipset Memory Slots IDE Connections FDD Connections Onboard SATA Peripherals Onboard LAN Onboard Audio (Note) Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.

For example, 4 GB of memory size will instead be shown as 3.xxGB memory during system startup. Only for GA-8IPE1000-G.



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Only for GA-8IPE1000-L. GA-8IPE1000 Series Motherboard - 10 - I/O Control Hardware Monitor BIOS Additional Features Overclocking Form Factor SMSC LPC47M997-NR System voltage detection CPU temperature detection CPU / System fan speed detection Use of licensed AWARD BIOS Supports Q-Flash Supports @BIOS Supports EasyTune 5 Over voltage via BIOS (CPU/ AGP/ DDR) Over clock via BIOS (CPU/ AGP/ DDR/ PCI) ATX form factor; 30.5cm x 22cm English - 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. HT functionality requirement content : Enabling the functionality of Hyper-Threading Technology for your computer system requires all of the following platform components: - CPU: An Intel® Pentium 4 Processor with HT Technology - Chipset: An Intel® Chipset that supports HT Technology - BIOS: A BIOS that supports HT Technology and has it enabled - OS: An operation system that has optimizations for HT Technology 1-3-1 Installation of the CPU Socket lever Fig.

1 Position lever at a 90 degree angle. Fig. 2 A gold-colored triangle is marked one edge of the CPU. Please align this edge with the socket edge closest to the CPU lever. Gently place the CPU into position making sure that the CPU pins fit perfectly into their holes. #039;s instruction document before install the expansion card into the computer. 2. Remove your computer's chassis cover, screws and slot bracket from the computer. 3. Press the expansion card firmly into expansion slot in motherboard.

4. Be sure the metal contacts on the card are indeed seated in the slot. 5. Replace the screw to secure the slot bracket of the expansion card. 6. Replace your computer's chassis cover. 7. Power on the computer, if necessary, setup BIOS utility of expansion card from BIOS. 8. Install related driver from the operating system.

Installing a AGP VGA card: Please carefully pull out the small whitedrawable bar at the end of the AGP slot when you try to install/uninstall the VGA card. Please align the VGA card to the onboard AGP slot and press firmly down on the slot. Make sure your VGA card is locked by the small white-drawable bar. GA-8IPE1000 Series Motherboard - 16 - 1-6 I/O Back Panel Introduction English PS/2 Keyboard and PS/2 Mouse Connector To install a PS/2 port keyboard and mouse, plug the mouse to the upper port (green) and the keyboard to the lower port (purple). 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 / COM B (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. 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 Connect the stereo speakers or earphone 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. Only for GA-8IPE1000-G. Only for GA-8IPE1000-L. - 17 Hardware Installation English 1-7 Connectors Introduction 1 3 2 12 11 9 19 13 7 5 16 4 17 14 18 6 15 8 10 1) 2) 3) 4) 5) 6) 7) 8) 9) 10) ATX_12V ATX (Power Connector) CPU_FAN SYS_FAN FDD IDE1 / IDE2 SATA0 / SATA1 PWR_LED BATTERY F_PANEL 11) 12) 13) 14) 15) 16) 17) 18) 19) F_AUDIO CD_IN SUR_CEN SPDIF_IO F_USB1 / F_USB2 IR GAME INFO_LINK CLR_CMOS GA-8IPE1000 Series Motherboard - 18 - 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. 2 4 1 3 English Definition GND GND +12V +12V Definition 3.3V 3.3V GND VCC GND VCC GND Power Good 5V SB (stand by +5V) +12V 3.

3V -12V GND PS_ON(soft on/off) GND GND GND -5V VCC VCC 1 2 3 4 Pin No. 1 2 3 4 5 6 7 8 9 10 10 20 1 11 11 12 13 14 15 16 17 18 19 20 - 19 - Hardware Installation English 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. 1 CPU_FAN Pin No. 1 2 3 1 SYS_FAN Definition GND +12V Sense 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.



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2MB, 1.44MB and 2.88MB. Please connect the red power connector wire to the pin1 position. 34 33 2 1 GA-8IPE1000 Series Motherboard - 20 - 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). English 39 1 40 2 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 1 7 Definition GND TXP TXN GND RXN RXP GND 2 3 4 5 6 7 - 21 - Hardware Installation English 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. Pin No. 1 Definition MPD+ MPDMPD- 1 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. Remove the battery, wait for 30 second. 3. Re-install the battery.

4. Plug the power cord and turn ON the computer. GA-8IPE1000 Series Motherboard - 22 - 10) F_PANEL (Front Panel Jumper) Please connect the power LED, PC peaker, 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 Speaker Connector Power Switch English MSG+ MSGPW+ PW- SPEAK+ 2 1 RES+ NC HD- IDE Hard Disk Active LED MSG (Message LED/Power/Sleep LED) (Yellow) PW (Power Switch) (Red) SPEAK (Speaker Connector) (Amber) HD (IDE Hard Disk Active LED) (Blue) RES (Reset Switch) (Green) NC (Purple) Pin 1: LED anode(+) Pin 2: LED cathode(-) Open: Normal Operation Close: Power On/Off Pin 1: VCC(+) Pin 2- Pin 3: NC Pin 4: Data(-) Pin 1: LED anode(+) Pin 2: LED cathode(-) Open: Normal Operation Close: Reset Hardware System NC - 23 - RES- HD+ Reset Switch SPEAK- 20 19 Hardware Installation English 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 assignment on the cable is the same as the pin assignment on the MB header. To find out if the chassis you are buying support front audio connector, please contact your dealer. Please note, you can have the alternative of using front audio connector or of using rear audio connector to play sound. Pin No.

1 2 Definition MIC GND MIC_BIAS Power Front Audio (R) Rear Audio (R) Reserved No Pin Front Audio (L) Rear Audio (L) 1 2 3 4 5 6 7 8 9 10 9 10 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 GA-8IPE1000 Series Motherboard - 24 - 13) SUR_CEN (Surround Center Connector) Please contact your nearest dealer for optional SUR_CEN cable. Pin No. 12 English Definition SUR OUTL SUR OUTR GND No Pin CENTER_OUT BASS_OUT AUX_L AUX_R 1 2 3 4 5 6 7 8 78 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 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_IO cable, please contact your local dealer. Pin No.

1 2 3 4 5 6 Definition VCC No Pin SPDIF SPDIFI GND GND 2 6 1 5 - 25 - Hardware Installation English 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 4 5 6 7 8 9 10 Definition Power Power USB DXUSB DyUSB DX+ USB Dy+ GND GND No Pin NC 2 1 10 9 16) 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 Definition VCC No Pin IR RX GND IR TX 1 2 3 4 5 GA-8IPE1000 Series Motherboard - 26 - 17) GAME (GAME Connector) This connector supports joystick, MIDI keyboard and other relate audio devices. Pin No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Definition VCC GRX1_R GND GPSA2 VCC GPX2_R GPY2_R MSI_R GPSA1 GND GPY1_R VCC GPSB1 MSO_R GPSB2 No Pin English 2 1 16 15 18) INFO_LINK This connector allows you to connect some external devices to provide you extra function.

Pin No. 2 1 10 9 Definition SMBCLK VCC SMBDATA GPIO GND GND No Pin NC +12V +12V 1 2 3 4 5 6 7 8 9 10 - 27 - Hardware Installation English 19) CLR_CMOS (Clear CMOS) You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short 1-2 pin. Default doesn't include the "Shunter" to prevent from improper use this jumper. Open: Normal 1 Short: Clear CMOS 1 GA-8IPE1000 Series Motherboard - 28 - 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> <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 file-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.



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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>. - 29 - BIOS Setup English The Main Menu (For example: BIOS Ver. : E8) 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) 1984-2004 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. Advanced BIOS Features This setup page includes all the items of Award special enhanced features.

Integrated Peripherals This setup page includes all onboard peripherals. Power Management Setup This setup page includes all the items of Green function features. PnP/PCI Configuration This setup page includes all the configurations of PCI & PnP ISA resources. PC Health Status This setup page is the System auto detect Temperature, voltage, fan, speed. Frequency/Voltage Control This setup page is control CPU clock and frequency ratio.

Load Fail-Safe Defaults Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration. GA-8IPE1000 Series Motherboard - 30 - 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. - 31 - BIOS Setup English 2-1 Standard CMOS Features CMOS Setup Utility-Copyright (C) 1984-2004 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 Drive A Drive B Floppy 3 Mode Support Halt On Base Memory Extended Memory Total Memory Tue, Oct 26 2004 22:31:24 [None] [None] [None] [None] [1.44M, 3.

5"] [None] [Disabled] [All, But Keyboard] 640K 239M 240M 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 F10: Save ESC: Exit F1: General Help F7: Optimized Defaults : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Save Defaults Date The date format is <week>, <month>, <day>, <year>. Week The week, from Sun to Sat, determined by the BIOS and is display only Month The month, Jan. Through Dec. Day The day, from 1 to 31 (or the maximum allowed in the month) Year The year, from 1999 through 2098 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 0/1 Master/Slave IDE Device 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) Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information.

Cylinder Number of cylinders Head Number of heads Precomp Write precomp Landing Zone Landing zone Sector Number of sectors If a hard disk has not been installed, select NONE and press <Enter>. GA-8IPE1000 Series Motherboard - 32 - 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. English 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. - 33 - BIOS Setup English 2-2 Advanced BIOS Features CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Advanced BIOS Features [Press Enter] [Floppy] [Hard Disk] [CDROM] [Setup] [Enabled] Item Help Menu Level Select Hard Disk Boot Device Priority Hard Disk Boot Priority First Boot Device Second Boot Device Third Boot Device Password Check # CPU Hyper-Threading : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Save Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults " # " System will detect automatically and show up when you install the Intel® Pentium® 4 processor with HT Technology.



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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. Select your boot device priority by Disabled. 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. Enables CPU Hyper Threading Feature. This feature is only working for operating system with multi-processors mode supported. (Default value) Disables CPU Hyper Threading. - 34 - Password Check Setup System CPU Hyper-Threading Enabled Disabled GA-8IPE1000 Series Motherboard 2-3 Integrated Peripherals CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Integrated Peripherals On-Chip Primary PCI IDE On-Chip Secondary PCI IDE On-Chip SATA SATA Port0 configure as SATA Port1 configure as USB Controller USB 2.

0 Controller USB Keyboard Support USB Mouse Support AC97 Audio Onboard H/W LAN 12 Onboard LAN Boot ROM 12 Onboard Serial Port 1 Onboard Serial Port 2 UART Mode Select UR2 Duplex Mode TxD, RxD Polarity Active Use IR Pins Onboard Parallel Port : Move Enter: Select F5: Previous Values [Enabled] [Enabled] [Auto] SATA Port0 SATA Port1 [Enabled] [Enabled] [Disabled] [Disabled] [Auto] [Enabled] [Disabled] [3F8/IRQ4] [2F8/IRQ3] [Normal] Half Lo, Hi IR-Rx2Tx2 [378/IRQ7] +/-/PU/PD: Value F6: Fail-Save Defaults F10: Save Item Help Menu Level English x x x x ESC: Exit F1: General Help F7: Optimized Defaults CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Integrated Peripherals Parallel Port Mode x ECP Mode Use DMA Game Port Address Midi Port Address x Midi Port IRQ [PRINTER] 3 [201] [Disabled] 10 Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Save Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults On-Chip Primary PCI IDE Enabled Disabled Enable Disabled 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 Secondary PCI IDE Only for GA-8IPE1000-G. Only for GA-8IPE1000-L. - 35 BIOS Setup English On-Chip SATA Disabled Auto Manual IDE Pri. Master IDE Pri. Slave IDE Sec. Master IDE Sec.

Slave SATA Port0 SATA Port1 Disable onboard Serial ATA function. When there is no device to be plugged in IDE1 or IDE2, SATA controller will remap to IDE controller. (Default value) Set SATA mode manually from "SATA Port0 configure as" item. Set SATA controller to compatible mode. This mode will remap SATA Port 0 to IDE Primary Master. Set SATA controller to compatible mode. This mode will remap SATA Port 0 to IDE Primary Slave. Set SATA controller to compatible mode. This mode will remap SATA Port 0 to IDE Secondary Master. Set SATA controller to compatible mode.

This mode will remap SATA Port 0 to IDE Secondary Slave. Set SATA controller to native mode(Serial ATA mode - SATA Port 0). This mode is only supported by Windows XP or later. (Default value) Set SATA controller to native mode(Serial ATA mode - SATA Port 1). This mode is only supported by Windows XP or later.

SATA Port0 configure as SATA Port1 configure as The setting depends on "SATA Port0 configure as" item setting. (Default: SATA Port1) USB Controller Enabled Disabled Enable USB controller. (Default value) Disable USB controller. USB 2.0 Controller You can disable this function if you are not using onboard USB 2.

0 feature. Enabled Enable USB 2.0 controller. (Default value) Disabled Disable USB 2.0 controller. USB Keyboard Support Enabled Disabled Enabled Disabled Enable USB keyboard support. Disable USB keyboard support. (Default value) Enable USB mouse support. Disable USB mouse support. (Default value) Auto detect AC97 audio function.

(Default value) Disable AC97 audio function. Enable onboard H/W LAN function. (Default value) Disable this function. USB Mouse Support AC97 Audio Auto Disabled Onboard H/W LAN Enabled Disabled Only for GA-8IPE1000-G. Only for GA-8IPE1000-L. GA-8IPE1000 Series Motherboard - 36 - Onboard LAN Boot ROM This function decide whether to invoke the boot ROM of the onboard LAN chip. Enabled Enable this function. Disabled Disable this function.

(Default value) 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 BIOS will automatically setup the port 1 address. Enable onboard Serial port 1 and address is 3F8.

(Default value) Enable onboard Serial port 1 and address is 2F8. Enable onboard Serial port 1 and address is 3E8. Enable onboard Serial port 1 and address is 2E8. Disable onboard Serial port 1. BIOS will automatically setup the port 1 address.

Enable onboard Serial port 2 and address is 3F8. Enable onboard Serial port 2 and address is 2F8. (Default value) Enable onboard Serial port 2 and address is 3E8. Enable onboard Serial port 2 and address is 2E8. Disable onboard Serial port 2.

Onboard Serial Port 2 UART Mode Select This item allows you to determine which Infra Red(IR) function of Onboard I/O chip. Normal Set onboard I/O chip UART to normal mode. (Default value) IrDA Set onboard I/O chip UART to IrDA mode. ASKIR Set onboard I/O chip UART to ASKIR mode. UR2 Duplex Mode This feature allows you to select IR mode. This function will available when "UART Mode Select" doesn't set at Normal. Half IR Function Duplex Half. (Default value) Full IR Function Duplex Full. TxD, RxD Polarity Active This function will available when "UART Mode Select" doesn't set at Normal. Hi, Hi Set TxD, RxD polarity active to Hi, Hi.

Hi, Lo Set TxD, RxD polarity active to Hi, Lo. Lo, Hi Set TxD, RxD polarity active to Lo, Hi. (Default value) Lo, Lo Set TxD, RxD polarity active to Lo, Lo. Use IR Pins This function will available when "UART Mode Select" doesn't set at Normal. Rx2, Tx2 Set IR pins to use Rx2, Tx2. IR-Rx2Tx2 Set IR pins to use IR-Rx2Tx2. (Default value) Only for GA-8IPE1000-G. Only for GA-8IPE1000-L. - 37 BIOS Setup English Onboard Parallel port Disabled 378/IRQ7

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



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Enable onboard LPT port and address is 3BC/IRQ7. Using Parallel port as Standard Parallel Port. Using Parallel port as Enhanced Parallel Port 1.9 and SPP mode.

Using Parallel port as Extended Capabilities Port. Using Parallel port as Enhanced Parallel Port 1.9 and ECP mode. Using Parallel port as printer port. (Default value) Using Parallel port as Enhanced Parallel Port 1.

7 and SPP mode. Using Parallel port as Enhanced Parallel Port 1.7 and ECP mode. Set ECP Mode Use DMA to 3. (Default value) Set ECP Mode Use DMA to 1. Set Game Port Address to 201. (Default value) Set Game Port Address to 209. Disable this function. Set Midi Port Address to 330. Set Midi Port Address to 300.

Set Midi Port Address to 290. Disable this function. (Default value) Set Midi Port IRQ to 5. Set Midi Port IRQ to 10. (Default value) Parallel Port Mode SPP EPP1.9+SPP ECP EPP1.9+ECP PRINTER EPP1.7+SPP EPP1.7+ECP 3 1 ECP Mode Use DMA Game Port Address 201 209 Disabled Midi Port Address 330 300 290 Disabled Midi Port IRQ 5 10 GA-8IPE1000 Series Motherboard - 38 - 2-4 Power Management Setup CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Power Management Setup [S1(POS)] [Blinking] [Instant-Off] [Soft-Off] [Enabled] [Enabled] [Disabled] Everyday 0:0:0 [Disabled] Item Help Menu Level English ACPI Suspend Type Power LED in S1 state Off by Power button AC BACK Function PME Event Wake Up ModemRingOn Resume by Alarm x Date (of Month) Alarm x Time (hh:mm:ss) Alarm POWER ON Function : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Save Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults ACPI Suspend Type S1(POS) S3(STR) Blinking Dual/Off Set ACPI suspend type to S1/POS(Power On Suspend). (Default value) Set ACPI suspend type to S3/STR(Suspend To RAM).

In standby mode(S1), power LED will blink. (Default value) In standby mode(S1): a. If use single color LED, power LED will turn off. b. If use dual color LED, power LED will turn to another color.

Press power button then Power off instantly. (Default value) Press power button 4 seconds to Power off. Enter suspend if button is pressed less than 4 seconds. 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.

When AC-power back to the system, the system will return to the Last state before AC-power off. Power LED in S1 state Off by Power button Instant-off Delay 4 Sec. AC BACK Function Soft-Off Full-On Memory 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) ModemRingOn An incoming call via modem can awake the system from any suspend state. Disabled Disable Modem Ring On function. Enabled Enable Modem Ring On function. (Default value) - 39 - BIOS Setup English 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. Date (of Month) Alarm : Everyday, 1~31 Time (hh: mm: ss) Alarm : (0~23) : (0~59) : (0~59) POWER ON Function Disabled Any KEY Mouse Mouse/Any KEY Disable this function. (Default value)

Press any key to power on the system. Double click on mouse left button to power on the system. Press any key or double click on mouse left button to power on the system. GA-8IPE1000 Series Motherboard - 40 - 2-5 PnP/PCI Configurations CMOS Setup Utility-Copyright (C) 1984-2004 Award Software PnP/PCI Configurations PCI 1/5 IRQ Assignment PCI 2 IRQ Assignment PCI 3 IRQ Assignment PCI 4 IRQ Assignment [Auto] [Auto] [Auto] [Auto] Item Help Menu Level Device(s) using this INT: English : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Save Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults PCI 1/5 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI 1/5. (Default value) Set IRQ

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

3,4,5,7,9,10,11,12,14,15 to PCI 4. 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 PCI 4 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 - 41 - BIOS Setup English 2-6 PC Health Status CMOS Setup Utility-Copyright (C) 1984-2004 Award Software PC Health Status Current CPU Temperature Vcore DDR25V +3.

3V +12V Current CPU FAN Speed Current SYSTEM FAN Speed 50oC 1.35V 2.39V 3.28V 12.09V 3308 RPM 0 RPM Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Save Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults Current CPU Temperature Detect CPU temperature automatically.

Current Voltage(V) Vcore / DDR25V / +3.3V / +12V Detect system's voltage status automatically. Current CPU/SYSTEM FAN Speed (RPM) Detect CPU/SYSTEM fan speed status automatically. GA-8IPE1000 Series Motherboard - 42 - 2-7 Frequency/Voltage Control CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Frequency/Voltage Control [15X] [Disabled] 133 66/33/100 [Auto] 266 66/33/100 [Normal] [Normal] [Normal] Item Help Menu

Level Set CPU Ratio if CPU Ratio is unlocked English CPU Clock Ratio CPU Host Clock Control x CPU Host Frequency (Mhz) x AGP/PCI/SRC Fixed Memory Frequency For Memory Frequency (Mhz) AGP/PCI/SRC Frequency (Mhz) DIMM OverVoltage Control AGP OverVoltage Control CPU OverVoltage Control : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Save Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults Incorrect using these features may cause your system broken. For power end-user use only. CPU Clock Ratio This setup option will

automatically assign by CPU detection. The option will display "Locked" and read only if the CPU ratio is not changeable. CPU Host Clock Control Disabled Enabled Disable CPU host clock control. (Default value) Enable CPU host clock control. CPU Host Frequency(Mhz) This item will be available when CPU Host Clock Control is set to Enabled.

100Mhz ~ 355Mhz Set CPU Host Clock from 100Mhz to 355Mhz. If you use a 400Mhz FSB processor, please set CPU Host Frequency to 100Mhz.

@@@Auto Set Memory frequency by DRAM SPD data. @@2.5 Memory Frequency = Host clock x 2.5. Auto Set Memory frequency by DRAM SPD data. @@1.6 Memory Frequency = Host clock x 1.6.

2.0 Memory Frequency = Host clock x 2. Auto Set Memory frequency by DRAM SPD data. @@(Default value) Set DIMM OverVoltage Control to +0.1V. Set DIMM OverVoltage Control to +0.2V. Set AGP OverVoltage Control to Normal.



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(Default value) Set AGP OverVoltage Control to +0.1V.

Set AGP OverVoltage Control to +0.2V. Set AGP OverVoltage Control to +0.3V. Set CPU OverVoltage Control to Normal. (Default value) Set CPU OverVoltage Control to +5.0%. Set CPU OverVoltage Control to +7.5%. @@@@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>. @@@@When disabled, anyone may access all BIOS Setup program function. @@@@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. (12) 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). Only for GA-8IPE1000-G. Only for GA-8IPE1000-L. - 49 Drivers Installation English 3-2 Software Application This page displays all the tools that Gigabyte developed and some free software, you can choose anyone you want and press "install" to install them.

3-3 Software Information This page lists the contents of software and drivers in this CD-title. GA-8IPE1000 Series Motherboard - 50 - 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. - 51 - Drivers Installation English GA-8IPE1000 Series Motherboard - 52 - Chapter 4 Appendix 4-1 Unique Software Utilities What is Xpress Recovery ? Xpress Recovery is a utility used to back up and restore an OS partition. If the hard drive is not working properly, the user can restore the drive to its original state. 1. 2. 3. 4. 5.

6. Supports FAT16, FAT32, and NTFS formats Must be connected to the IDE1 Master Allows installation of only one OS Must be used with an IDE hard disk supporting HPA The first partition must be set as the boot partition. When the boot partition is backed up, please do not alter its size. Xpress Recovery is recommended when using Ghost to return boot manager to NTFS format. English 4-1-1 Xpress Recovery Introduction How to use the Xpress Recovery 1. Boot from CD-ROM (BMP Mode) Enter the BIOS menu, select "Advanced BIOS Feature" and set to boot from CD-ROM. Insert the provided driver CD into your CD drive, then save and exit the BIOS menu. 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 - 53 - Appendix English 2. Press F9 during powering on the computer. (Text Mode) Press F9 during powering on the computer . Award Modular BIOS v6.00PG, An Energy Star AI ly 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. GA-8IPE1000 Series Motherboard - 54 - 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.

- 55 - Appendix English 4-1-2 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.



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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-FlashTM 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-8IPE1000 Series Motherboard - 56 - Entering the Q-FlashTM 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-FlashTM / Dual BIOS utility screen The Q-Flash / Dual BIOS utility screen consists of the following key components. Dual BIOS Utility Boot

From..

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

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

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.....

..... SST 49LF004A Dual BIOS utility bar 512K 512K Task menu for Dual BIOS utility Task menu for Q-FlashTM 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-FlashTM 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. - 57 - Appendix English 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 "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 49LF004A Backup ROM Type/Size.

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.. 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...

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

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

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..... SST 49LF004A 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 trun 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-8IPE1000 Series Motherboard - 58 - 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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.... Main Bios Main ROM Type/Size.....

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

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.... SST 49LF004A 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.



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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 49LF004A Backup ROM Type/Size..
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..... SST 49LF004A 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 Fba after updating. Intel i875P AGPset BIOS for 8KNXP Ultra Fba Check System Health OK , VCore = 1.5250 Main Processor : Intel Pentium(R) 4 I.

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

CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Standard CMOS Features Select Language Advanced BIOS Features Load Fail-Safe Defaults Integrated Peripherals Load Optimized Defaults Power Management Setup Set Supervisor Password Load Fail-Safe Defaults (Y/N)? Y 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 Time, Date, Hard Disk Type... 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 Set Supervisor Password Save to CMOS and EXIT (Y/N)? Y 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 Time, Date, Hard Disk Type... 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-8IPE1000 Series Motherboard - 60 - 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.

Later, you will see a box pop up showing the BIOS files you previously downloaded to the floppy disk. If you want to save the current BIOS for backup purpose, you can begin Step 1 with "Save BIOS to Floppy" item. 2. Move to the BIOS file you want to flash and press Enter. In this example, we only download one BIOS file to the floppy disk so only one BIOS file, 8GE800.F4, is listed. Please confirm again you have the correct BIOS file for your motherboard. Q-Flash Utility V1.30 Flash Type/Size..

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..... SST 49LF003A 256K 1 file(s) found 8GE800.F4Keep DMI Data Enable 256K Update BIOS from Floppy Save BIOS toFree size : 1.14M Floppy Total size : 1.39M Enter : Run :Move ESC:Reset F5 : Refresh DEL : Delete F10:Power Off BIOS file in the floppy disk. Q-Flash Utility V1.30 Flash Type/Size....

