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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-K8NE. You'll find the answers to all your questions on the GIGABYTE GA-K8NE 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-K8NE
User guide GIGABYTE GA-K8NE
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Instruction manual GIGABYTE GA-K8NE

GA-K8NE

AMD Socket 754 Processor Motherboard

User's Manual

Rev. 2004
12ME-K8NE-2004R

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



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Manual abstract:

20, 2005 Copyright © 2005 GIGA-BYTE TECHNOLOGY CO., LTD. All rights reserved. @@No part of this manual may be reproduced, copied, translated, or transmitted in any form or by any means without Gigabyte's prior written permission. Specifications and features are subject to change without prior notice. Product Manual Classification In order to assist in the use of this product, Gigabyte has categorized the user manual in the following: For 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 "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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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 thiSS DS DDR3 --SS --DS --SS SS --DS DS SS DS DDR 400 DDR 400 DDR 400 DDR 400 DDR 400 DDR 400 DDR 400 DDR 400 DDR 400 DDR 333 DDR 333 DDR 333 DDR 333 Max. Memory Speed GA-K8NE Motherboard - 14 - 1-5 Installation of Expansion Cards English You can install your expansion card by following the steps outlined below: 1. Read the related expansion card's instruction document before install the expansion card into the computer. 2. Remove your computer's chassis cover, screws and slot bracket from the computer. 3. Press the expansion card firmly into expansion slot in motherboard. 4.

Be sure the metal contacts on the card are indeed seated in the slot. 5. Replace the screw to secure the slot bracket of the expansion card. 6. Replace your computer's chassis cover. 7. Power on the computer, if necessary, setup BIOS utility of expansion card from BIOS. 8. Install related driver from the operating system. Installing a PCI Express x 16 expansion card: Please carefully pull out the small whitedrawable bar at the end of the PCI Express x 16 slot when you try to install/uninstall the VGA card.

Please align the VGA card to the onboard PCI Express x 16 slot and press firmly down on the slot. Make sure your VGA card is locked by the small white-drawable bar. - 15 - Hardware Installation English 1-6 I/O Back Panel Introduction PS/2 Keyboard and PS/2 Mouse Connector To install a PS/2 port keyboard and mouse, plug the mouse to the upper port (green) and the keyboard to the lower port (purple). Parallel Port The parallel port allows connection of a printer, scanner and other peripheral devices. SPDIF_I (SPDIF In) Use SPDIF In feature only when your device has digital output function. SPDIF_O (SPDIF Out) · The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder. COM A (Serial Port) Connects to serial-based mouse or data processing devices. 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.

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 (Front Speaker Out) Connect the stereo speakers, earphone or front surround speakers to this connector. MIC In Microphone can be connected to MIC In jack.

Center/Subwoofer Speaker Out Connect the Center/Subwoofer speakers to this connector. Rear Speaker Out Connect the rear surround speakers to this connector. GA-K8NE Motherboard - 16 - Side Speaker Out Connect the side surround speakers to this connector. You can use audio software to configure 2-/4-/6-/8-channel audio functioning. English 1-7 Connectors Introduction 1 2 6 3 10 16 11 7 4 13 15 5 14 12 9 8 1) 2) 3) 4) 5) 6) 7) 8) ATX_12V ATX (Power Connector) CPU_FAN SYS_FAN FDD IDE1 / IDE2 SATAII0_1/SATAII2_3 F_PANEL 9) 10) 11) 12) 13) 14) 15) 16) PWR_LED F_AUDIO CD_IN F_USB1 / F_USB2/F_USB3 COMB CI CLR_CMOS BAT - 17 - Hardware Installation English 1/2) ATX_12V / ATX (Power Connector) With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard. Before connecting the power connector, please make sure that all components and devices are properly installed. Align the power connector with its proper location on the motherboard and connect tightly. The ATX_12V power connector mainly supplies power to the CPU. If the ATX_12V power connector is not connected, the system will not start. Caution! Please use a power supply that is able to handle the system voltage requirements.

It is recommended that a power supply that can withstand high power consumption be used (300W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable system or a system that is unable to start. If you use a 24-pin ATX power supply, please remove the small cover on the power connector on the motherboard before plugging in the power cord ; Otherwise, please do not remove it. Pin No. 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 +12V(Only for 24pins ATX) 3.3V(Only for 24pins ATX) 3.3V -12V GND PS_ON(soft On/Off) GND GND GND -5V +5V +5V +5V(Only for 24pins ATX) GND(Only for 24pins ATX) 1 2 3 4 Pin No. 12 24 1 2 3 4 5 6 7 8 9 10 11 12 1 13 14 15 16 17 18 19 20 21 22 23 24 GA-K8NE 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.



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English Pin No. 1 CPU_FAN/SYS_FAN Definition GND +12V Sense 1 2 3 5) FDD (FDD Connector) The FDD connector is used to connect the FDD cable while the other end of the cable connects to the FDD drive. The types of FDD drives supported are: 360KB, 720KB, 1.2MB, 1.44MB and 2.88MB. Please connect the red power connector wire to the pin1 position. 2 34 1 33 - 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) SATAII0_1 / SATAII2_3 (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 7 1 1 7 Definition GND TXP TXN GND RXN RXP GND 2 3 4 5 6 7 GA-K8NE Motherboard - 20 - 8) F_PANEL (Front Panel Jumper) Please connect the power LED, PC speaker, reset switch and power switch etc of your chassis front panel to the F_PANEL connector according to the pin assignment below. English Message LED/ Power/ Sleep LED Speaker Connector Power Switch MSG+ MSGPW+ PW- SPEAK+ 2 1 RES+ NC HD- HD+ IDE Hard Disk Active LED HD (IDE Hard Disk Active LED) (Blue) SPEAK (Speaker Connector) (Amber) Pin 1: LED anode(+) Pin 2: LED cathode(-) Pin 1: Power Pin 2- Pin 3: NC Pin 4: Data(-) Open: Normal Close: Reset Hardware System Open: Normal Close: Power On/Off Pin 1: LED anode(+) Pin 2: LED cathode(-) NC RES (Reset Switch) (Green) PW (Power Switch) (Red) MSG(Message LED/Power/Sleep LED) (Yellow) NC (Purple) - 21 - RES- Reset Switch SPEAK- 20 19 Hardware Installation English 9) 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 10) F_AUDIO (Front Audio Panel Connector) If you want to use Front Audio connector, you must remove 5-6, 9-10 Jumper. In order to utilize the front audio header, your chassis must have front audio connector. Also please make sure the pin assignments for the cable are the same as the pin assignments for the front audio header. To find out if the chassis you are buying support front audio connector, please contact your dealer. Please note, you can have the alternative of using front audio connector or of using rear audio connector to play sound. Pin No. 10 9 1 Definition MIC GND MIC_BIAS POWER FrontAudio(R) Rear Audio (R)/ Return R NC No Pin FrontAudio (L) Rear Audio (L)/ Return L 1 2 3 4 5 6 7 8 9 10 2 GA-K8NE Motherboard - 22 - 11) CD_IN (CD In Connector) Connect CD-ROM or DVD-ROM audio out to the connector. English 1 Pin No.

1 2 3 4 Definition CD-L GND GND CD-R 12) F_USB1 / F_USB2 / F_USB3 (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 1 2 Definition Power Power USB DXUSB DyUSB DX+ USB Dy+ GND GND No Pin NC 2 3 4 5 6 7 8 9 10 9 10 - 23 - Hardware Installation English 13) COMB (COMB Connector) Be careful with the polarity of the COMB connector.

Check the pin assignments while you connect the COMB cable. Please contact your nearest dealer for optional COMB cable. Pin No. 1 2 10 Definition NDCDBNSINB NSOUTB NDTRBGND NDSRBNRTSBNCTSBNRIBNo Pin 2 3 4 5 6 7 8 9 10 1 9 14) CI (Chassis Intrusion, Case Open) This 2-pin connector allows your system to detect if the chassis cover is removed. You can check the "Case Opened" status in BIOS Setup. Pin No. 1 Definition Signal GND 1 2 GA-K8NE Motherboard - 24 - 15) 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. English 1 Open: Normal 1 Short: Clear CMOS 16) BAT (Battery) Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. If you want to erase CMOS...

1. Turn OFF the computer and unplug the power cord. 2. 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. - 25 - Hardware Installation English GA-K8NE 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> <Page Up> <Page Down> <F1> <F2> <F5> <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 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>.

Because BIOS flashing is potentially risky, please do it with caution and avoid inadequate operation that may result in system malfunction. - 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. : F1b) 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 MB Intelligent Tweaker(M.I.T.) ESC: Quit F8: Q-Flash : Select Item F10: Save & Exit Setup Time, Date, Hard Disk Type..

. Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving 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. MB Intelligent Tweaker(M.I.

T.) This setup page is control CPU clock and frequency ratio. Top Performance If you wish to maximize the performance of your system, enable Top Performance. Load Optimized Defaults Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration. GA-K8NE Motherboard - 28 - Set Supervisor Password Change, set, or disable password.

It allows you to limit access to the system and Setup, or just to Setup. English 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 IDE Channel 4 Master IDE Channel 5 Master Drive A Drive B Halt On Floppy 3 Mode Support Tue, Mar 15 2005 14:42:37 [None] [None] [None] [None] [None] [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 F1: General Help : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults Date The date format is <week>, <month>, <day>, <year>. Week The week, from Sun to Sat, determined by the BIOS and is display only Month The month, Jan. Through Dec. Day The day, from 1 to 31 (or the maximum allowed in the month) Year The year, from 1999 through 2098 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 Device Setup. You can use one of three methods: Auto Allows BIOS to automatically detect IDE devices during POST(default) None Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up. Manual User can manually input the correct settings Access Mode Use this to set the access mode for the hard drive. The four options are: CHS/LBA/Large/Auto(default:Auto) IDE Channel 2/3/4/5 Master IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection. Extended IDE Drive SATA devices setup.

You can use one of two methods: Auto Allows BIOS to automatically detect SATA IDE devices during POST. (Default value) None Select this if no SATA IDE devices are used and the system will skip the automatic detection step and allow for faster system start up. GA-K8NE Motherboard - 30 - Access Mode 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 disk. Hard drive information should be labeled on the outside drive casing.

Enter the appropriate option based on this information. Cylinder Number of cylinders Head Number of heads Precomp Write precomp Landing Zone Landing zone Sector Number of sectors English Drive A / Drive B The category identifies the types of floppy disk drive A or drive B that has been installed in the computer. None No floppy drive installed 360K, 5.25" 5.25 inch PC-type standard drive; 360K byte capacity. 1.2M, 5.25" 5.25 inch AT-type high-density drive; 1.2M byte capacity (3.5 inch when 3 Mode is Enabled). 720K, 3.5" 3.5 inch double-sided drive; 720K byte capacity 1.44M, 3.

5" 3.5 inch double-sided drive; 1.44M byte capacity. (Default value) 2.88M, 3.5" 3.5 inch double-sided drive; 2.88M byte capacity. 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] [PEG] 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.



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Use <> or <-> to select a device, then press<+> to move it up, or <-> to move it down the list.

Press <ESC> to exit this menu. First / Second / Third Boot Device Floppy LS120 Hard Disk CDROM ZIP USB-FDD USB-ZIP USB-CDROM USB-HDD Legacy LAN Disabled 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 Legacy 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-K8NE Motherboard - 32 - Password Check System Setup The system can not boot and can not access to Setup page will be denied if the correct password is not entered at the prompt. The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt. (Default value) English Init Display First This feature allows you to select the first initiation of the monitor display from which card when you install a PCI card and a PCI Express VGA card on the motherboard.

PEG Set Init display first to PCI Express VGA card. (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 On-Chip IDE Channel0 On-Chip IDE Channel1 IDE DMA transfer access On-Chip MAC Lan NV IDE/SATA RAID function IDE Primary Master RAID IDE Primary Slave RAID IDE Secndry Master RAID IDE Secndry Slave RAID NV Serial-ATA 1 NV SATA 1 Primary RAID NV SATA 1 Secondary RAID NV Serial-ATA 2 NV SATA 2 Primary RAID NV SATA 2 Secondary RAID IDE Prefetch Mode USB Memory Type AC97 Audio Onboard Serial Port 1 : Move [Enabled] [Enabled] [Enabled] [Auto] [Enabled] [Disabled] [Disabled] [Disabled] [Disabled] [Enabled] [Disabled] [Enabled] [Disabled] [Disabled] [Enabled] [SHADOW] [Auto] [3F8/IRQ4] Item Help Menu Level Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Integrated Peripherals Onboard Serial Port 2 Onboard Parallel Port Parallel Port Mode x ECP Mode Use DMA On-Chip USB Legacy USB Keyboard/Storage Legacy (DOS) USB Mouse Legacy USB Storage detect [2F8/IRQ3] [378/IRQ7] [SPP] 3 [V1.1+V2.0] [Disabled] [Disabled] [Enabled] Item Help Menu Level : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help On-Chip IDE Channel0 Enabled Disabled Enabled Disabled Enabled Disabled GA-K8NE Motherboard 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. Enable IDE DMA transfer access. (Default value) Disable this function. - 34 - On-Chip IDE Channel1 IDE DMA transfer access On-Chip MAC Lan Auto Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Auto-detect onboard LAN chip function. (Default value) Disable onboard LAN chip function. Enable NV IDE/SATA RAID function. (Default value) Disable this function. 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) Enable 2nd slave channel IDE RAID function. Disable this function. (Default value) Enable Serial ATA 1 supported. (Default value) Disable Serial ATA 1 supported. Enable 1st SATA primary RAID function.

Disable this function. (Default value) Enable 1st SATA secondary RAID function. Disable this function. (Default value) Enable Serial ATA 2 supported. (Default value) Disable Serial ATA 2 supported.

Enable 2nd SATA primary RAID function. Disable this function. (Default value) Enable 2nd SATA secondary RAID function. Disable this function. (Default value) Enable IDE Prefetch mode.

(Default value) Disable IDE Prefetch mode. English NV IDE/SATA RAID function IDE Primary Master RAID IDE Primary Slave RAID IDE Secndry Master RAID IDE Secndry Slave RAID NV Serial-ATA 1 Enabled Disabled Enabled Disabled Enabled Disabled NV SATA 1 Primary RAID NV SATA 1 Secondary RAID NV Serial-ATA 2 Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled NV SATA 2 Primary RAID NV SATA 2 Secondary RAID IDE Prefetch Mode - 35 - BIOS Setup English USB Memory Type SHADOW Base Memory(640K) Set USB memory type to SHADOW. (Default value) Set USB memory type to base memory(640K). Enable onboard AC'97 audio function. (Default value) Disable this function. BIOS will automatically setup the Serial port 1 address. Enable onboard Serial port 1 and address is 3F8/IRQ4. (Default value) Enable onboard Serial port 1 and address is 2F8/IRQ3. Enable onboard Serial port 1 and address is 3E8/IRQ4. Enable onboard Serial port 1 and address is 2E8/IRQ3.

Disable onboard Serial port 1. BIOS will automatically set up the Serial port 2 address. Enable onboard Serial port 2 and address is 3F8/IRQ4. Enable onboard Serial port 2 and address is 2F8/IRQ3. (Default value) Enable onboard Serial port 2 and address is 3E8/IRQ4. Enable onboard Serial port 2 and address is 2E8/IRQ3. Disable onboard Serial port 2. 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. Disable this function if you are not using onboard USB function. Enable USB 1.1 and USB 2.

0 controller. (Default value) Enable only USB 1.1 controller. Enable USB keyboard support in the MS-DOS environment. Disable this function. (Default value) AC97 Audio Auto Disabled Onboard Serial Port 1 Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Onboard Serial Port 2 Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Onboard Parallel Port Disabled 378/IRQ7 278/IRQ5 3BC/IRQ7 Parallel Port Mode SPP EPP ECP ECP+EPP ECP Mode Use DMA 3 1 On-Chip USB Disabled VI.



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1+V2.0 V1.1 Enabled Disabled Legacy USB Keyboard/Storage GA-K8NE Motherboard - 36 - Legacy (DOS) USB Mouse Enabled Disabled Enabled Disabled
Enable USB mouse support in the MS-DOS environment. Disable this function.

(Default value) Enable USB storage detect function. (Default value) Disable this function. English Legacy USB Storage detect 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 ACPI Suspend Type Soft-Off by Power button PME Event Wake Up
Modem Ring On USB Resume from Suspend Power-On 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 Function 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) Instant-off Delay 4 Sec Set ACPI suspend type to S1/POS(Power On Suspend). (Default
value) Set ACPI suspend type to S3/STR(Suspend To RAM). 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. Soft-Off by Power button PME Event Wake Up This feature requires an ATX power supply
that provides at least 1A on the 5VSB lead. Disabled Disable this function. (Default value) Enabled Enable PME as wake up event.
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. - 37 - BIOS Setup English USB Resume from Suspend Disabled Enabled Disable this function. (Default value)
Enable USB device wake up system from suspend type.

Power-On 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 Power-On by Alarm is Enabled. Day of Month Alarm : Everyday, 1~31 Time (hh: mm: ss) Alarm :
(0~23) : (0~59) : (0~59) Power On By Mouse Disabled Double Click Disabled Password Any KEY Keyboard 98 Disable this function.
(Default value) Double click on PS/2 mouse left button to power on the system. Disable this function. (Default value) Enter from 1 to 5 characters to set the
Keyboard Power On Password. 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. Power On By Keyboard KB Power ON Function 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-K8NE Motherboard - 38 -
2-5 PnP/PCI Configurations CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PnP/PCI Configurations PCI 1 IRQ Assignment PCI 2 IRQ
Assignment PCI 3 IRQ Assignment [Auto] [Auto] [Auto] Item Help Menu Level English : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10:
Save ESC: Exit F7: Optimized Defaults F1: General Help PCI 1 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI 1.

(Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1. Auto assign IRQ to PCI 2. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 2. Auto assign
IRQ to PCI 3. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 3. PCI 2 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 PCI 3 IRQ Assignment Auto
3,4,5,7,9,10,11,12,14,15 - 39 - BIOS Setup English 2-6 PC Health Status CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PC Health Status
Reset Case Open Status Case Opened Vcore DDR25V +3.3V +12V Current CPU Temperature Current CPU FAN Speed Current SYSTEM FAN Speed CPU
Warning Temperature CPU FAN Fail Warning CPU Smart FAN Control [Disabled] No OK OK OK OK 34 oC 3183 RPM 0 RPM [Disabled] [Disabled]
[Disabled] [Disabled] 8 12 80 0 20 F10: Save ESC: Exit F7: Optimized Defaults F1: General Help Item Help Menu Level x x x x x CPU FAN Manual
Control CPU FAN: Low speed CPU FAN: Mid speed CPU FAN: High speed Temp of FAN turn off Temp Limit of Low Speed : Move Enter: Select
+/-/PU/PD: Value F5: Previous Values CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PC Health Status x x x Temp Limit of Mid Speed Temp
Limit of High Speed Temp of full FAN speed 50 60 70 Item Help Menu Level : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC:
Exit F7: Optimized Defaults F1: General Help The CPU fan runs at full speed when both CPU Smart FAN Control and CPU FAN Manual Control are
disabled. GA-K8NE Motherboard - 40 - Reset Case Open Status Disabled Enabled Don't reset case open status. (Default value) Clear case open status at next
boot. English Case Opened If the case is closed, "Case Opened" will show "No".

If the case have been opened, "Case Opened" will show "Yes". If you want to reset "Case Opened" value, set "Reset Case Open Status" to "Enabled" and save
CMOS, your computer will restart. Current Voltage(V) Vcore / DDR25V / +3.3V / +12V Detect system's voltage status automatically. Current CPU
Temperature Detect CPU temperature automatically.

Current CPU/SYSTEM FAN Speed (RPM) Detect CPU/SYSTEM fan speed status automatically. CPU Warning Temperature 60 oC / 140 o F 70 oC / 158 o F
80 oC / 176 o F 90 oC / 194 o F Disabled Disabled Enabled Disabled Enabled Monitor CPU temperature at 60 oC / Monitor CPU temperature at 70 oC /
Monitor CPU temperature at 80 oC / Monitor CPU temperature at 90 oC / Disable this function. (Default value) 140oF. 158oF. 176oF.

194oF. CPU FAN Fail Warning Disable CPU fan fail warning function. (Default value) Enable CPU fan fail warning function. Disable this function. (Default
Value) When this function is enabled, CPU fan will run at different speed depending on CPU temperature. Users can adjust the fan speed with Easy Tune
based on their requirements. CPU Smart FAN Control (Note) CPU FAN Manual Control CPU Smart Fan Control will become disabled when this item is
enabled. Enabled Enable the CPU fan manual control function. Disabled Disable the CPU fan manual control function. (Default value) CPU FAN: Low
Speed Set the parameter of the CPU fan speed.

The CPU FAN: Low Speed option configures the speed of the CPU fan when the CPU temperature is below the temperature set in Temp Limit of Mid Speed.
The parameter can be adjusted from 0~127. Higher parameter means faster CPU fan speed. (Default parameter: 8) The CPU fan runs at full speed when both
CPU Smart FAN Control and CPU FAN Manual Control are disabled.



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(Note) Whether the CPU fan speed control function is supported will depend on the CPU cooler you install. - 41 BIOS Setup English CPU FAN: Mid Speed Set the parameter of the CPU fan speed. The CPU FAN: Mid Speed option configures the speed of the CPU fan when the CPU temperature exceeds the temperature set in Temp Limit of Mid Speed. The parameter can be adjusted from 0~127. Higher parameter means faster CPU fan speed. (Default parameter: 12) CPU FAN: High Speed Set the parameter of the CPU fan speed.

The CPU FAN: High Speed option configures the speed of the CPU fan when the CPU temperature exceeds the temperature set in Temp Limit of High Speed. The parameter can be adjusted from 0~127. Higher parameter means faster CPU fan speed. (Default parameter: 80) Temp of FAN turn off (Default temperature: 0oC) When the CPU temperature is below the value set in this option, the CPU fan will stop spinning. Temp Limit of Low Speed (Default temperature: 20oC) The CPU fan will stop spinning when the CPU temperature is below the value set in Temp of FAN turn off option.

The CPU fan will start to spin again with the parameter set in CPU FAN: Low Speed when the CPU temperature exceeds the value set in Temp Limit of Low Speed. Temp Limit of Mid Speed (Default temperature: 50oC) When the CPU temperature exceeds the value set in this option, the CPU fan spins with the parameter specified in CPU FAN: Mid Speed. For example, by default, when the CPU temperature exceeds 50 o C, CPU fan runs with parameter 12. Temp Limit of High Speed (Default temperature: 60oC) When the CPU temperature exceeds the value set in this option, the CPU fan rotates with the parameter specified in CPU FAN: High Speed. For example, by default, when the CPU temperature exceeds 60 o C, CPU fan runs with parameter 80.

Temp of full FAN Speed (Default temperature: 70oC) When the CPU temperature exceeds the value set in this option, the CPU fan runs at full speed. GA-K8NE Motherboard - 42 - 2-7 MB Intelligent Tweaker(M.I.T.) CMOS Setup Utility-Copyright (C) 1984-2005 Award Software MB Intelligent Tweaker(M.I.T.) CPU Frequency K8 CPU Clock Ratio CPU Spread Spectrum PCIE Clock Robust Graphics Booster DDR voltage control [200] [Default] [Center Spread] [100Mhz] [Auto] [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 Frequency 200 ~ 456 Set CPU frequency from 200Mhz to 456Mhz.

Set K8 CPU Clock Ratio to CPU factory default. (Default value) Set K8 CPU Clock Ratio from x5 1000Mhz to x10 2000Mhz. Disable CPU Spread Spectrum. Set CPU Spread Spectrum to Center Spread. (Default value) Set PCI-E clock from 100Mhz to 150Mhz. K8 CPU Clock Ratio Default x5 1000Mhz ~ x10 2000Mhz CPU Spread Spectrum Disabled Center Spread PCIE Clock 100Mhz ~ 150Mhz Robust Graphics Booster Select the options can enhance the VGA graphics card bandwidth to get higher performance. Auto Set Robust Graphics Booster to Auto. (Default value) Fast Set Robust Graphics Booster to Fast. Turbo Set Robust Graphics Booster to Turbo. DDR voltage control Please note that by overclocking your system through the increase of the DDR voltage, damage to the memory may occur.

Normal Set DDR voltage control to Normal. (Default value) +0.1V Set DDR voltage control to +0.1V. +0.

2V Set DDR voltage control to +0.2V. - 43 - BIOS Setup English 2-8 Top Performance CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management SetupTop Performance PnP/PCI Configurations Disabled...

.....
.....
..[] PC Health Status Enabled...

..... [] MB Intelligent Tweaker(M.I.

T.) 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 : Move ENTER: Accept ESC: AbortLoad Fail-Safe Defaults If you wish to maximize the performance of your system, enable "Top Performance." Disabled Disable this function. (Default Value) Enabled Enable Top Performance function. "Top Performance" will increase H/W working speed.

Different system configuration (both H/W component and OS) will effect the result. For example, the same H/W 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 MB Intelligent Tweaker(M.I.

T.) ESC: Quit F8: Q-Flash Load Optimized Defaults : Select Item F10: Save & Exit Setup Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Load Optimized Defaults (Y/N)? N Save & Exit Setup Exit Without Saving Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects. GA-K8NE Motherboard - 44 - 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 MB Intelligent Tweaker(M.I.T.) ESC: Quit F8: Q-Flash : Select Item F10: Save & Exit Setup Change/Set/Disable Password Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving 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. 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.



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If you select "Setup" at "Password Check" in Advance BIOS Features Menu, you will be prompted only when you try to enter Setup. - 45 - 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 MB Intelligent Tweaker(M.I.

T.) ESC: Quit F8: Q-Flash Save Data to CMOS : Select Item F10: Save & Exit Setup Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Save to CMOS and EXIT (Y/N)? Y Save & Exit Setup Exit Without Saving 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 MB Intelligent Tweaker(M.I. T.) ESC: Quit F8: Q-Flash Abandon all Data : Select Item F10: Save & Exit Setup Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Quit Without Saving (Y/N)? N Save & Exit Setup Exit Without Saving Type "Y" will quit the Setup Utility without saving to RTC CMOS. Type "N" will return to Setup Utility. GA-K8NE Motherboard - 46 - 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. @@@@As well, 4 blue LED's are mounted on the U-Plus D.P.S.

@@@Through GIGABYTE M.I.T. @2 and M.I.B. 2 features. @@@@With GIGABYTE's proprietary S.O.S. @@@@Instead, S.O.S. @@@@ (Corporate Online Management) A web-based system management tool that allows system hardware information such as CPU, memory, graphics card, etc. to be monitored and controlled via the Internet, C.

O.M. allows corporate MIS engineers to easily maintain corporate computers such as providing the most up-to-date drivers and BIOS. (Do not use C.O.M. and @BIOS at the same time.) - 51 - Appendix English 4-1-1 EasyTune 5 Introduction EasyTune 5 presents the most convenient Windows based system performance enhancement and manageability utility. Featuring several powerful yet easy to use tools such as 1) Overclocking for enhancing system performance, 2) C.I.A. and M.I.B. for special enhancement for CPU and Memory, 3) Smart-Fan control for managing fan speed control of both CPU cooling fan and North-Bridge Chipset cooling fan, 4) PC health for monitoring system status.

(Note) User Interface Overview 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

11. Button / Display Overclocking C.I.A./C.

I.A.2 and M.I.B.

/M.I.B.2 Smart-Fan PC Health GO "Easy Mode" & "Advance Mode" Display screen Function display LEDs GIGABYTE Logo Help button Exit or Minimize button Description Enters the Overclocking setting page Enters the C.I.A./2 and M.I.B./2 setting page Enters the Smart-Fan setting page Enters the PC Health setting page Confirmation and Execution button Toggles between Easy and Advance Mode Display panel of CPU frequency Shows the current functions status Log on to GIGABYTE website Display EasyTuneTM 5 Help file Quit or Minimize EasyTune TM 5 software (Note) EasyTune 5 functions may vary depending on different motherboards.

GA-K8NE Motherboard - 52 - 4-1-2 Xpress Recovery Introduction 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 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) Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2004, Award Software, Inc. Intel 865PE AGPSet BIOS for 8IPE1000MT F1 Check System Health OK . . . Press DEL to enter SETUP / Q-Flash, F9 For Xpress Recovery 08/16/2002-1845GE-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-K8NE 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.



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