



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-K8NF-9. You'll find the answers to all your questions on the GIGABYTE GA-K8NF-9 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-K8NF-9
User guide GIGABYTE GA-K8NF-9
Operating instructions GIGABYTE GA-K8NF-9
Instructions for use GIGABYTE GA-K8NF-9
Instruction manual GIGABYTE GA-K8NF-9

GA-K8NF-9 (rev. 2.2)

AMD Socket 939 Processor Motherboard

User's Manual

Rev. 2201
12ME-K8NF9-2201R

 * 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.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)

<http://yourpdfguides.com/dref/3018305>

Manual abstract:

@@@2.2) Motherboard GA-K8NF-9(rev. 2.2) Jan. 26, 2006 Jan. 26, 2006 Copyright © 2006 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 the "Technology Guide" section on Gigabyte's website to read or download the information you need. For more product details, please click onto Gigabyte's website at www.gigabyte.com.tw

Table of Contents GA-K8NF-9(rev. 2.2) Motherboard Layout ..

.....

.....

.....

.....

.....

.....

.....

.....

..... 6 Block Diagram

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 7 Chapter 1 Hardware Installation ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 9 1-1 1-2 1-3 Considerations Prior to Installation ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

9 Feature Summary

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

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

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

10 Installation of the CPU and Fan Heat Sink

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

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

... 12 1-3-1 1-3-2 Installation of the CPU ..

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

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

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

.. 12 Installation of the Fan Heat Sink ...

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

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

.... 13 1-4 1-5 1-6 1-7 Installation of Memory

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

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

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

... 14 Installation of Expansion Cards ..

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

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

.....
.....
. 40 MB Intelligent Tweaker(M.I.T.) .
.....

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

43 Top Performance

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

... 45 Load Optimized Defaults

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

.... 45 Set Supervisor/User Password

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

... 46 Save & Exit Setup

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

.....

.....

.....

.....

.....

.. 47 Exit Without Saving

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 47 -4- Chapter 3 Drivers Installation .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 49 3-1 3-2 3-3 3-4 3-5 Install Chipset Drivers

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... 49 Software Application .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 50 Software Information

.....

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

... 83 -5- GA-K8NF-9(rev. 2.2) Motherboard Layout DDR1 DDR2 DDR3 DDR4 KB_MS SPDIF_1 SPDIF_O LPT CPU_FAN Socket 939 IT8712 ATX COMA ATX_12V GA-K8NF-9 USB LAN IDE2 IDE1 AUDIO1 AUDIO2 F_AUDIO PCIE_1 VITESSE 8201 USB FDD nVIDIA® nForceTM 4 (-4X) PWR_LED F_PANEL S_ATAII_1 S_ATAII_0 S_ATAII_3 PCIE_2 PCIE_16 S_ATAII_2 PCI1 CODEC PCI2 CD_IN BIOS PCI3 F1_1394 REV:2.2 F_USB1 SYS_FAN SNO82AA2 SNO81BA3 BATTERY CLR_CMOS F2_1394 F_USB2 -6- F_USB3 Block Diagram PCI-ECLK (100MHz) AMD K8 Socket 939 CPU CPUCLK+/- (200MHz) DDR 400/333/266/200MHz DIMM Dual Channel Memory Hyper Transport Bus PCI Express x 16 2 PCI Express x 1 Ports PCI-ECLK (100MHz) BIOS RJ45 VITESSE 8201 nVIDIA® nForce4(-4X) 4 Serial ATA ATA33/66/100/133 IDE Channels PCI Express x 1 Bus PCI Bus SNO82AA2 SNO81BA3 PS/2 KB/Mouse 24MHz 3 IEEE1394b LPC BUS IT8712 Floppy LPT Port COM Port CODEC 33MHz Surround Speaker Out Center/Subwoofer Speaker Out Side Speaker Out MIC Line-Out Line-In SPDIF In SPDIF Out 3PCI 10 USB Ports PCICLK (33MHz) -7- -8- Chapter 1 Hardware Installation 1-1 Considerations Prior to Installation Preparing Your Computer The motherboard contains numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Thus, prior to installation, please follow the instructions below: 1. Please turn off the computer and unplug its power cord. 2.

When handling the motherboard, avoid touching any metal leads or connectors. 3. It is best to wear an electrostatic discharge (ESD) cuff when handling electronic components (CPU, RAM). 4. Prior to installing the electronic components, please have these items on top of an antistatic pad or within a electrostatic shielding container.

5. Please verify that the power supply is switched off before unplugging the power supply connector from the motherboard. English Installation Notices 1. Prior to installation, please do not remove the stickers on the motherboard. These stickers are required for warranty validation.

2. Prior to the installation of the motherboard or any hardware, please first carefully read the information in the provided manual. 3. Before using the product, please verify that all cables and power connectors are connected. 4. To prevent damage to the motherboard, please do not allow screws to come in contact with the motherboard circuit or its components. 5. Please make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing. 6. Please do not place the computer system on an uneven surface.

7. Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user. 8. If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician. Instances of Non-Warranty 1. 2. 3. 4. 5. 6.

Damage due to natural disaster, accident or human cause. Damage as a result of violating the conditions recommended in the user manual. Damage due to improper installation. Damage due to use of uncertified components. Damage due to use exceeding the permitted parameters.

Product determined to be an unofficial Gigabyte product. -9- Hardware Installation English 1-2 CPU Feature Summary Socket 939 for AMD Sempron TM / Athlon TM 64 / Athlon TM 64 FX / AthlonTM 64 X2 Dual-Core processor (K8) Supports core frequencies in excess of 3000+ and faster 1600MHz nVIDIA® nForce4(-4X) chipset Onboard VITESSE 8201 phy (10/100/1000Mbit) Onboard Realtek ALC850 chip Supports 2 / 4 / 6 / 8 channel audio Supports Jack Sensing (Connector Sensing) Supports SPDIF In/Out connection Supports CD In connection nVIDIA® nForce4(-4X) chipset - 1 FDD connector, allowing connection of 2 FDD devices - 2 IDE connectors (IDE1, IDE2) with UDMA 33/ATA 66/ATA 100/ATA 133 support, allowing connection of 4 IDE devices - 4 SATA connectors (SATAII0_1, SATAII2_3), allowing connection of 4 SATA devices - Supports data striping (RAID 0), mirroring (RAID 1), striping + mirroring (RAID 0+1) for Serial ATA Microsoft Windows 2000/XP 4 DDR DIMM memory slots (supports up to 4GB memory) (Note 1) Supports dual channel DDR 400/333/266/200 DIMMs Supports 2.5V DDR DIMMs 1 PCI Express x 16 slot 2 PCI Express x 1 slots 3 PCI slots 1 24-pin ATX power connector 1 4-pin ATX 12V power connector 1 floppy connector 2 IDE connectors 4 SATA 1.5Gb/s connectors 1 CPU fan connector 1 system fan connector 1 front panel connector 1 front audio connector 1 CD In connector 3 USB 2.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)

<http://yourpdfguides.com/dref/3018305>

0/1.

1 connectors for additional 6 USB 2.0/1.1 ports by cables 2 IEEE1394b connectors for 3 additional IEEE1394 ports by cables 1 power LED connector System Bus Chipset LAN Audio Storage O.S Support Memory Expansion Slots Internal Connectors GA-K8NF-9(rev. 2.2) Motherboard - 10 - Rear Panel I/O I/O Control Hardware Monitor BIOS Additional Features Bundle Software Form Factor 1 PS/2 keyboard port 1 PS/2 mouse port 1 parallel port 1 SPDIF in port 1 SPDIF out port 1 serial port (COMA) 4 USB 2.0/1.1 ports 1 RJ-45 port 6 audio jacks (Line In / Line Out / MIC In / Surround Speaker Out (Rear Speaker Out) / Center/Subwoofer Speaker Out / Side Speaker Out) IT8712 chip System voltage detection CPU temperature detection CPU / System fan speed detection CPU warning temperature CPU fan failure warning CPU smart fan control (Note 2) 1 4Mbit flash ROM Use of licensed AWARD BIOS Supports @BIOS Supports Download Center Supports Q-Flash Supports EasyTune (Note 3) Supports Xpress Install Supports Xpress Recovery2 Supports Xpress Rescue Norton Internet Security (OEM version) ATX form factor; 30.5cm x 21.0cm English (Note 1) 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. (Note 2) Whether the CPU Smart FAN Control function is supported will depend on the CPU you install. For more detailed information please check at the FAQ section on GIGABYTE's website. (Note 3) EasyTune functions may vary depending on different motherboards. - 11 Hardware Installation English 1-3 Installation of the CPU and Fan Heat Sink 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 Whannel Technology is activated, the bandwidth of memory bus will be double the original one.

Due to CPU limitation, if you want to operate the Dual Channel Technology, please follow the guidelines below for Dual Channel memory configuration. 1. Dual Channel mode will not be enabled if only one DDR memory module is installed. 2. To enable Dual Channel mode with 2 memory modules (it is recommended to use memory modules of identical brand, size, chips, and speed), you must install them into DIMM sockets of the same color. 3. To enable Dual Channel mode with 4 memory modules, it is recommended to use memory modules of identical brand, size, chips, and speed. The following is a Dual Channel Memory configuration table: (DS: Double Side, SS: Single Side) 2 memory modules 4 memory modules DDR 1 DS/SS X DS/SS DDR 2 DS/SS X DS/SS DDR 3 X DS/SS DS/SS DDR 4 X DS/SS DS/SS English If two memory modules are to be used to achieve Dual Channel mode, we recommend installing them in DDR1 and DDR2 DIMM sockets. All of the memory configurations below will cause system unable to boot. (DS: Double Side, SS: Single Side) DDR 1 1 memory module 2 memory modules X X X DS/SS X 3 memory modules DS/SS X DS/SS DS/SS DDR 2 DS/SS X DS/SS X DS/SS DS/SS DS/SS X DS/SS DS/SS DDR 3 X X DS/SS X X DS/SS DS/SS DS/SS X DDR 4 X DS/SS X DS/SS DS/SS X DS/SS DS/SS DS/SS - 15 - Hardware Installation English 1-5 Installation of Expansion Cards 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. GA-K8NF-9(rev. 2).

2) 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). 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. COMA (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. 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. 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.

- 17 Hardware Installation English 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. 1-7 Connectors Introduction 3 6 2 1 11 5 10 8 7 4 15 9 12 14 13 1) 2) 3) 4) 5) 6) 7) 8) ATX_12V ATX (Power Connector) CPU_FAN SYS_FAN FDD IDE1 / IDE2 SATAII0_1 / SATAII2_3 PWR_LED 9) 10) 11) 12) 13) 14) 15) BATTERY F_PANEL F_AUDIO CD_IN F_USB1 / F_USB2 / F_USB3 F1_1394 / F2_1394 CLR_CMOS GA-K8NF-9(rev. 2.2) 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.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)
<http://yourpdfguides.com/dref/3018305>

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. 1 3 1 4 2 English 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 24-pin ATX) 3.3V(Only for 24-pin ATX) 3.3V -12V GND PS_ON(soft On/Off) GND GND GND -5V +5V +5V +5V(Only for 24-pin ATX) GND(Only for 24-pin ATX) 2 3 4 Pin No. 1 12 24 2 3 4 5 6 7 8 9 10 11 12 13 1 13 14 15 16 17 18 19 20 21 22 23 24 - 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. Pin No. 1 CPU_FAN 1 Definition GND +12V Sense 1 2 3 SYS_FAN 5) FDD (FDD Connector) The FDD connector is used to connect the FDD cable while the other end of the cable connects to the FDD drive. The types of FDD drives supported are: 360KB, 720KB, 1.2MB, 1.44MB and 2.

88MB. Please connect the red power connector wire to the pin1 position. 34 33 2 1 GA-K8NF-9(rev. 2.2) 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 40 39 2 IDE2 IDE1 1 7) SATAII0_1 / SATAII2_3 (Serial ATA Connectors, Controlled by nForce4(-4X)) 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 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 1 Definition MPD+ MPDMPD- 2 3 9) BATTERY Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions. If you want to erase CMOS... 1.

Turn off the computer and unplug the power cord. 2. Take out the battery gently and put it aside for about 10 minutes (Or you can use a metal object to connect the positive and negative pins in the battery holder to make them short for one minute). 3. Re-install the battery. 4. Plug the power cord and turn on the computer. GA-K8NF-9(rev. 2.2) Motherboard - 22 - 10) F_PANEL (Front Panel Jumper) Please connect the power LED, PC speaker, reset switch and power switch etc.

of your chassis front panel to the F_PANEL connector according to the pin assignment below. English 20 19 SPEAKSpeaker Connector SPEAK+ Power Switch Message LED/ Power/ Sleep LED MSGMSG+ 21 PW+ PW- NC RES+ RESHDHD+ Reset Switch IDE Hard Disk Active LED SPEAK (Speaker Connector) (Amber) PW (Power Switch) (Red) MSG (Message LED/Power/Sleep LED) (Yellow) RES (Reset Switch) (Green) HD (IDE Hard Disk Active LED) (Blue) NC (Purple) Pin 1: VCC(+) Pin 2- Pin 3: NC Pin 4: Data(-) Open: Normal Operation Close: Power On/Off Pin 1: LED anode(+) Pin 2: LED cathode(-) Open: Normal Operation Close: Reset Hardware System Pin 1: LED anode(+) Pin 2: LED cathode(-) NC - 23 - 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 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 Definition MIC GND MIC_BIAS Power Front Audio(R) Rear Audio(R)/Return R NC No Pin Front Audio(L) Rear Audio(L)/Return L 1 2 3 4 5 6 7 8 9 10 2 1 12) CD_IN (CD In Connector) Connect CD-ROM or DVD-ROM audio out to the connector. 1 Pin No. 1 2 3 4 Definition CD-L GND GND CD-R GA-K8NF-9(rev.

2.2) Motherboard - 24 - 13) 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 2 3 9 10 English 12 Definition Power (5V) Power (5V) USB DXUSB DyUSB DX+ USB Dy+ GND GND No Pin NC 4 5 6 7 8 9 10 14) F1_1394 / F2_1394 (Front IEEE 1394 Connectors) Serial interface standard set by Institute of Electrical and Electronics Engineers, which has features like high speed, high bandwidth and hot plug. Be careful with the polarity of the IEEE1394 connector. Check the pin assignment carefully while you connect the IEEE1394 cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional IEEE1394 cable, please contact your local dealer. 2 16 F2_1394 F1_1394 2 1 10 9 1 15 Pin No.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Definition Power (12V) Power (12V) TPA1+ TPA1GND GND TPB1+ TPB1Power (12V) Power (12V) TPA2+ TPA2GND No Pin TPB2+ TPB2- Pin No. 1 2 3 4 5 6 7 8 9 10 Definition TPA0+ TPA0GND GND TPB0+ TPB0No Pin Power(12V) Power(12V) GND - 25 - Hardware Installation English 15) CLR_CMOS (Clear CMOS) You may clear the CMOS data to its default values by this header. To clear CMOS, temporarily short 1-2 pin.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)

<http://yourpdfguides.com/dref/3018305>

Default doesn't include the jumper to prevent from improper use of this header. 1 Open: Normal 1 Short: Clear CMOS GA-K8NF-9(rev. 2.2) 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. 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 <F12> : For Boot Menu Select boot sequence for onboard (or add-on cards) device. @@GA-K8NF-9 D1 :BIOS Setup/Q-Flash, <F9>: Xpress Recovery2, <F12>For Boot Menu 12/20/2005-NF-CK804-6A61FG0LC-00 <F12> For Boot Menu Use < > or < > to select a device, then press enter to accept .

Press <ESC> to exit this menu. Boot Menu == Select a Boot First device == Floppy LS120 Hard Disk CDROM ZIP USB-FDD USB-ZIP USB-CDROM USB-HDD LAN :Move Enter :Accept ESC:Exit The Main Menu (For example: BIOS Ver. : D1) Once you enter Award BIOS CMOS Setup Utility, the Main Menu (as figure below) will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu. CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status 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. Please Load Optimized Defaults in the BIOS when somehow the system works not stable as usual. This action makes the system reset to the default for stability. The BIOS Setup menus described in this chapter are for reference only and may differ from the exact settings for your motherboard. GA-K8NF-9(rev.

2.2) Motherboard - 28 - Standard CMOS Features This setup page includes all the items in standard compatible BIOS. English 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, set "Top Performance" as "Enabled". Load Optimized Defaults Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration. Set Supervisor Password Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup. Set User Password Change, set, or disable password. It allows you to limit access to the system. Save & Exit Setup Save CMOS value settings to CMOS and exit setup. Exit Without Saving Abandon all CMOS value changes and exit setup. - 29 - BIOS Setup English 2-1 Standard CMOS Features CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Date (mm:dd:yy) Time (hh:mm:ss) IDE Channel 0 Master IDE Channel 0 Slave IDE Channel 1 Master IDE Channel 1 Slave IDE Channel 2 Master IDE Channel 3 Master IDE Channel 4 Master IDE Channel 5 Master Drive A Drive B Halt On Floppy 3 Mode Support Fri, Dec 30 2005 22:31:24 [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 Channel 0 Master/Slave ; IDE Channel 1 Master/Slave IDE devices setup.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)
<http://yourpdfguides.com/dref/3018305>

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) Capacity Capacity of currently installed hard drive.

IDE Channel 2/3/4/5 Master IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection. Extended IDE Drive You can use one of the two 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. Access Mode Use this to set the access mode for the hard drive. The two options are: Large/Auto(default:Auto) GA-K8NF-9(rev. 2).

2) Motherboard - 30 - Capacity Capacity of currently installed hard drive. Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information. Cylinder Number of cylinders Head Number of heads Precomp Write precomp Landing Zone Landing zone Sector Number of sectors English Drive A / Drive B The category identifies the types of floppy disk drive A or drive B that has been installed in the computer. None No floppy drive installed 360K, 5.

25" 5.25 inch PC-type standard drive; 360K byte capacity. 1.2M, 5.25" 5.25 inch AT-type high-density drive; 1.2M byte capacity (3.5 inch when 3 Mode is Enabled). 720K, 3.5" 3.

5 inch double-sided drive; 720K byte capacity 1.44M, 3.5" 3.5 inch double-sided drive; 1.44M byte capacity. 2.88M, 3.5" 3.5 inch double-sided drive; 2.88M byte capacity.

Halt on The category determines whether the computer will stop if an error is detected during power up. No Errors The system boot will not stop for any error that may be detected and you will be prompted. All Errors Whenever the BIOS detects a non-fatal error the system will be stopped. All, But Keyboard The system boot will not stop for a keyboard error; it will stop for all other errors. (Default value) All, But Diskette The system boot will not stop for a disk error; it will stop for all other errors.

All, But Disk/Key The system boot will not stop for a keyboard or disk error; it will stop for all other errors. Floppy 3 Mode Support (for Japan Area) Disabled Drive A Drive B Both Normal Floppy Drive. (Default value) Drive A is 3 mode Floppy Drive. Drive B is 3 mode Floppy Drive. Drive A & B are 3 mode Floppy Drives.

- 31 - BIOS Setup English 2-2 Advanced BIOS Features CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Advanced BIOS Features Hard Disk Boot Priority First Boot Device Second Boot Device Third Boot Device Boot Up Floppy Seek Password Check Init Display First [Press Enter] [Floppy] [Hard Disk] [CDROM] [Disabled] [Setup] [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. Use < > or < - > to select a device, then press<+> to move it up, or <-> to move it down the list. Press <ESC> to exit this menu. First / Second / Third Boot Device Floppy LS120 Hard Disk CDROM ZIP USB-FDD USB-ZIP USB-CDROM USB-HDD LAN Disabled Select your boot device priority by Floppy. Select your boot device priority by LS120. Select your boot device priority by Hard Disk. Select your boot device priority by CDROM. Select your boot device priority by ZIP. Select your boot device priority by USB-FDD. Select your boot device priority by USB-ZIP.

Select your boot device priority by USB-CDROM. Select your boot device priority by USB-HDD. Select your boot device priority by LAN. Disable this function. Boot Up Floppy Seek During POST, BIOS will determine the floppy disk drive installed is 40 or 80 tracks. 360K type is 40 tracks 720K, 1.2M and 1.44M are all 80 tracks. Enabled BIOS searches for floppy disk drive to determine it is 40 or 80 tracks. Note that BIOS can not tell from 720K, 1.2M or 1.44M drive type as they are all 80 tracks. Disabled BIOS will not search for the type of floppy disk drive by track number. Note that there will not be any warning message if the drive installed is 360K. (Default value) GA-K8NF-9(rev.

2.2) 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 VGA card and a PCI Express VGA card on the motherboard. PCI slot Set Init display first to PCI.

PEG Set Init display first to PCI Express VGA card. (Default value) - 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 On-Chip LAN BOOT ROM NV IDE/SATA RAID function 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 1394 Onboard Serial Port 1 Onboard Parallel Port Parallel Port Mode : Move [Enabled] [Enabled] [Enabled] [Auto] [Enabled] [Disabled] [Enabled] Disabled Disabled [Enabled] Disabled Disabled [Enabled] [SHADOW] [Auto] [Enabled] [3F8/IRQ4] [378/IRQ7] [SPP] Item Help Menu Level x x x x 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 x ECP Mode Use DMA On-Chip USB Legacy USB Keyboard/Storage Legacy (DOS) USB Mouse Legacy USB storage detect 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 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. On-Chip IDE Channel1 IDE DMA transfer access GA-K8NF-9(rev.

2.2) Motherboard - 34 - On-Chip MAC Lan (controlled by VITESSE 8201 phy) Auto Disabled Auto-detect onboard LAN chip function.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)
<http://yourpdfguides.com/dref/3018305>

(Default value) Disable onboard LAN chip function. English On-Chip LAN BOOT ROM This function decide whether to invoke the boot ROM of the onboard LAN chip. Enabled Enable this function. (Default value) Disabled Disable this function. NV IDE/SATA RAID function Enabled Disabled Enable IDE/SATA 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. 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 USB Memory Type SHADOW Set USB memory type to SHADOW. (Default value) Base Memory(640K)Set USB memory type to base memory(640K). AC97 Audio Auto Disabled Enable onboard AC'97 audio function. (Default value) Disable this function. Enable onboard IEEE1394 function. (Default value) Disable onboard IEEE1394 function. Onboard 1394 Enabled Disabled - 35 - BIOS Setup English Onboard Serial Port 1 Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Disabled 378/IRQ7 278/IRQ5 3BC/IRQ7 SPP EPP ECP ECP+EPP 3 1 BIOS will automatically setup the Serial 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. 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) Enable USB mouse support in the MS-DOS environment. Disable this function. (Default value) Enable USB storage detect function. (Default value) Disable this function. Onboard Parallel Port Parallel Port Mode ECP Mode Use DMA On-Chip USB Disabled V1.1+V2.0 V1.1 Enabled Disabled Enabled Disabled Enabled Disabled Legacy USB Keyboard/Storage Legacy (DOS) USB Mouse Legacy USB storage detect GA-K8NF-9(rev.

2.2) Motherboard - 36 - 2-4 Power Management Setup CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Power Management Setup [SI(POS)]

[Instant-off] [Disabled] [Disabled] [Disabled] [Disabled] Everyday 0:0:0 [Disabled] [Disabled] Enter [Soft-Off] Item Help Menu Level English ACPI Suspend Type Soft-Off by 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 Password AC BACK Function : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help ACPI Suspend Type SI(POS) S3(STR) Instant-off Delay 4 Sec Set ACPI suspend type to SI/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. Enabled Enable PME as wake up event. (Default value) Modem Ring On An incoming call via modem can awake the system from any suspend state.

Disabled Disable Modem Ring on function. (Default value) Enabled Enable Modem Ring on function. USB Resume from Suspend Disabled Enable 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 RTC Alarm Lead To Power On is Enabled. Day of Month Alarm : Everyday, 1~31 Time (hh: mm: ss) Alarm : (0~23) : (0~59) : (0~59) - 37 - BIOS Setup English Power On by Mouse Disabled Double Click Disabled Password Any KEY Keyboard 98 Disabled this function. (Default value) Double click on PS/2 mouse left button to power on the system.

Disabled 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 Password When "Power On by Keyboard" set at Password, you can set the password here. Enter Input password(from 1 to 5 characters) and press Enter to set the 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-K8NF-9(rev. 2.

2) 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 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 (Note) OK OK OK OK 28 oC 3183 RPM 0 RPM [Disabled] [Disabled] [Disabled] [Disabled] 8 12 80 0 20 50 60 F10: Save ESC: Exit F7: Optimized Defaults F1: General Help Item Help Menu Level x x x x x x x CPU FAN Manual Contol CPU FAN : Low speed CPU

FAN : Mid speed CPU FAN : Hige speed Temp of FAN turn off Temp Limit of Low speed Temp Limit of Mid speed Temp Limit of High speed : Move Enter: Select +/-/PU/PD: Value F5: Previous Values CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Integrated Peripherals x Temp of full FAN

speed 70 Item Help Menu Level : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help Current Voltage(V) Vcore / DDR25V / +3.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)

<http://yourpdfguides.com/dref/3018305>

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. GA-K8NF-9(rev. 2.2) Motherboard - 40 - CPU Warning Temperature 60 oC / 140 oF 70 oC / 158 oF 80 oC / 176 oF 90 oC / 194 oF Disabled Disabled Enabled Disabled Enabled Monitor CPU temperature at 60o C / 140 oF. Monitor CPU temperature at 70o C / 158 oF.

Monitor CPU temperature at 80o C / 176 oF. Monitor CPU temperature at 90o C / 194 oF. Disable this function. (Default value) Disable CPU fan fail warning function. (Default value) Enable CPU fan fail warning function.

Disable this function. 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. (Default value) English CPU FAN Fail Warning 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) 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. (Note) The CPU fan runs at full speed when both CPU Smart FAN Control and CPU FAN Manual Control are disabled.

Whether the CPU Smart FAN Control function is supported will depend on the CPU you install. For more detailed information please check at the FAQ section on GIGABYTE's website. - 41 BIOS Setup English 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-K8NF-9(rev.

2.2) Motherboard - 42 - 2-7 MB Intelligent Tweaker(M.I.T.) CMOS Setup Utility-Copyright (C) 1984-2004 Award Software MB Intelligent Tweaker(M.I.T.) HT Frequency ratio CPU Frequency K8 CPU Clock Ratio Current DDR speed CPU Spread Spectrum PCIE Clock Robust Graphics Booster Chipset core PCI-E voltage HT-Link voltage control DDR voltage control [Auto] [200] [Auto] 400 [Center Spread] [100Mhz] [Auto] [Normal] [Normal] [Normal] Item Help Menu Level English : Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F7: Optimized Defaults F1: General Help Incorrect using these features may cause your system broken. For power end-user use only. HT Frequency Ratio This setup option will automatically assign by CPU detection.

(Default value: Auto) CPU Frequency 200 ~ 456 Set CPU frequency from 200Mhz to 456Mhz. K8 CPU Clock Ratio This setup option will automatically assign by CPU detection. (Default value: Auto) Current DDR speed Display the current DDR speed. CPU Spread Spectrum Disabled Center Spread Disable CPU Spread Spectrum. Set CPU Spread Spectrum to Center Spread. (Default value) PCIE Clock 100Mhz ~ 150Mhz Set PCI-E clock from 100Mhz to 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.

- 43 - BIOS Setup English Chipset core PCI-E voltage Normal +0.1v +0.2v +0.3v Normal +0.1v +0.

2v +0.3v Normal +0.1v +0.2v Set chipset core PCI-E voltage as Core Power required. (Default value) Increase chipset core PCI-E voltage +0.

IV. Increase chipset core PCI-E voltage +0.2V. Increase chipset core PCI-E voltage +0.3V. Supply HT-Link voltage as HT-Link required. (Default value) Increase HT-Link voltage +0.1V. Increase HT-Link voltage +0.2V.

Increase HT-Link voltage +0.2V. Supply DDR voltage as DDR required. (Default value) Increase DDR voltage +0.1V. Increase DDR voltage +0.2V. HT-Link voltage control DDR voltage control GA-K8NF-9(rev. 2.2) Motherboard - 44 - 2-8 Top Performance CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Top Performance Power Management Setup PnP/PCI Configurations Disabled.

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

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

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

[] MB Intelligent Tweaker(M.I.T.) ESC: Quit F8: Q-Flash : Move ESC: Abort Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving English : Select Item ENTER: Accept Save & Exit Setup F10: Load Optimized Defaults If you wish to maximize the performance of your system, set "Top Performance" as "Enabled". Disabled Disable this function. (Default Value) Enabled Enable Top Performance function. "Top Performance" will increase hardware working speed. Different system configuration (both hardware component and OS) will effect the result. For example, the same hardware configuration might not run properly with Windows XP, but works smoothly with Windows NT. Therefore, if your system is not perform enough, the reliability or stability problem will appear sometimes, and we will recommend you disabling the option to avoid the problem as mentioned above.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)
<http://yourpdfguides.com/dref/3018305>

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 Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Load Optimized Defaults (Y/N)? N Setup Save & Exit Exit Without Saving : Select Item F10: Save & Exit Setup Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects. - 45 - BIOS Setup English 2-10 Set Supervisor/User Password CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations Enter Password: PC Health Status 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 Change/Set/Disable Password When you select this function, the following message will appear at the center of the screen to assist you in creating a password. Type the password, up to eight characters, and press <Enter>. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a password. To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disabled. Once the password is disabled, the system will boot and you can enter Setup freely. The BIOS Setup program allows you to specify two separate passwords: SUPERVISOR PASSWORD and a USER PASSWORD. When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items. If you select "System" at "Password Check" in Advance BIOS Features Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu. If you select "Setup" at "Password Check" in Advance BIOS Features Menu, you will be prompted only when you try to enter Setup.

GA-K8NF-9(rev. 2.2) Motherboard - 46 - 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 Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Save & Y Save to CMOS and EXIT (Y/N)?Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup English Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS. Type "N" will return to Setup Utility. 2-12 Exit Without Saving CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status MB Intelligent Tweaker(M.I.T.

) ESC: Quit F8: Q-Flash Abandon all Data Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Quit Without Saving (Y/N)? NExit Setup Save & Exit Without Saving : Select Item F10: Save & Exit Setup Type "Y" will quit the Setup Utility without saving to RTC CMOS. Type "N" will return to Setup Utility. - 47 - BIOS Setup English GA-K8NF-9(rev. 2.2) Motherboard - 48 - 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. @@@@and M.I.B. @@2. 3. 4. 5. 6. 7.

8. 9. 10. @@@@Intel x86 platforms 2. At least 64M bytes of system memory 3. @@Save the settings and exit the BIOS Setup. Insert the provided driver CD into your CD-ROM drive. @@Press any key to enter Xpress Recovery2. @@. Boot from CD/DVD: Press any key to startup XpressRecovery2.
.... @@GA-K8NF-9 D1 .

. . . @@2. @@System storage capacity and the reading/writing speed of the hard disk will affect the data backup speed.

It is recommended that Xpress Recovery2 be immediately installed once you complete installations of OS and all required drivers as well as software. GA-K8NF-9(rev. 2.2) Motherboard - 54 - The Main Screen of Xpress Recovery2 1. RESTORE: Restore the backed-up data to your hard disk. (This button will not appear if there is no backup file.) English 2. BACKUP: Back up data from hard disk. 3. REMOVE: Remove previously-created backup files to release disk space.

(This button will not appear if there is no backup file.) 4. REBOOT: Limitations: Not compatible to Xpress Recovery. For the use of Xpress Recovery2, a primary partition must be reserved. Xpress Recovery2 will store the backup file at the end of the hard disk, so free space available on the hard disk for the backup file must be allocated in advance. (A minimum 4GB is recommended but the actual space is dependent on the size of the data to be backed up) 4.

Capable of backing up hard disks installed with Windows operating systems including DOS and Windows XP/2000/NT/9x/Me. 5. USB hard disks are currently not supported. 6.

Does not support RAID/AHCI (class code 0104/0106) hard disks. 7. Capable of backing up and restoring only the first physical hard disk. Hard disks detection sequence is as follows: a. PATA IDE primary channel b.

PATA IDE secondary channel c. SATA IDE channel 1 d. SATA IDE channel 2 e. SATA IDE channel 3 f. SATA IDE channel 4 1.

2. 3. Precautions: 1. 2. 3. 4. 5. When using hard disks with more than 128G under Windows 2000, be sure to execute the EnableBigLba.exe program from the driver CD before data backup. It is normal that data backup takes longer time than data restoration.

Xpress Recovery2 is compliant with the GPL regulations. On a few motherboards based on Nvidia chipsets, BIOS update is required for Xpress Recovery2 to correctly identify RAID and SATA IDE mode. Please contact your motherboard manufacturer. Xpress Recovery2 supports only PATA hard disks and not SATA hard disks on the following motherboards (As this is a BIOS-related issue, it can be solved by BIOS update) GA-K8U GA-K8U-9 GA-K8NXP-SLI GA-K8N Ultra-SLI GA-K8N Pro-SLI GA-K8NXP-9 GA-K8N Ultra-9 GA-K8NF-9 (PCB Ver.



[You're reading an excerpt. Click here to read official GIGABYTE GA-K8NF-9 user guide](http://yourpdfguides.com/dref/3018305)

<http://yourpdfguides.com/dref/3018305>

