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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-K8NMF-9. You'll find the answers to all your questions on the GIGABYTE GA-K8NMF-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-K8NMF-9
User guide GIGABYTE GA-K8NMF-9
Operating instructions GIGABYTE GA-K8NMF-9
Instructions for use GIGABYTE GA-K8NMF-9
Instruction manual GIGABYTE GA-K8NMF-9

GA-K8NMF-9

AMD Socket 939 Processor Motherboard

User's Manual

Rev. 1003
12ME-K8NMF9-1003

 * 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:

6, 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 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-K8NMF-9 Motherboard Layout

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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 you the power supply is switched off before unplugging the power supply connector from the motherboard. English Installation Notices 1.

Prior to installation, please do not remove the stickers on the motherboard. These stickers are required for warranty validation. 2. Prior to the installation of the motherboard or any hardware, please first carefully read the information in the provided manual. 3. Before using the product, please verify that all cables and power connectors are connected. 4. To prevent damage to the motherboard, please do not allow screws to come in contact with the motherboard circuit or its components. 5. Please make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing. 6. Please do not place the computer system on an uneven surface. 7. Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user. 8.

If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician. Instances of Non-Warranty 1. 2. 3. 4.

5. 6. Damage due to natural disaster, accident or human cause. Damage as a result of violating the conditions recommended in the user manual. Damage due to improper installation. Damage due to use of uncertified components. Damage due to use exceeding the permitted parameters. Product determined to be an unofficial Gigabyte product. -9- Hardware Installation English 1-2 CPU Feature Summary Socket 939 for AMD Athlon TM 64 / 64FX processor (K8)

1600MHz system bus Supports core frequencies in excess of 3000+ and faster nVIDIA® nForce4(-4X) Chipset Supported on the Win 2000/XP operating systems 4 DDR DIMM memory slots (supports up to 4GB memory) (Note 1) Supports dual channel DDR 400/333/266/200 DIMM 1 PCI Express x 16 slot 1 PCI Express x 1 slot 2 PCI slots 2 IDE connection (UDMA 33/ATA 66/ATA 100/ATA 133), allows connection of 4 IDE devices Supported on the Win 2000/XP operating systems 1 FDD connection, allows connection of 2 FDD devices 4 Serial ATA ports from nVIDIA® nForce4(-4X) controller (S_ATA0, S_ATA1, S_ATA2, S_ATA3) Supported on the Win 2000/XP operating systems 1 parallel port supporting Normal/EPP/ECP mode 2 serial ports (COMA, COMB) 8 USB 2.0/1.

1 ports (rear x 4, front x 4 via cable) 2 IEEE1394 ports (rear x 1, front x 1 via cable) 1 front audio connector 1 PS/2 keyboard port 1 PS/2 mouse port RTL 8201 (10/100 Mbit) 1 RJ 45 port Supported on the Win 98/ME/2000/XP operating systems ALC850 CODEC Supports Jack Sensing function Supports 2 / 4 / 6 / 8 channel audio (Note 2) Supports Line In ; Line Out ; MIC Surround Back Speaker (by optional Audio Combo Kit) SPDIF In/Out connection CD In connection Supported on the Win 98/ME/2000/XP operating systems Chipset Memory Slots IDE Connections FDD Connections Onboard SATA Peripherals Onboard LAN Onboard Audio (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.



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For example, 4 GB of memory size will instead be shown as 3.xxGB memory during system startup. (Note 2) To set up an 8 channel audio configuration, you must use Audio Combo Kit (optional device). GA-K8NMF-9 Motherboard - 10 - I/O Control Hardware Monitor Onboard SATA RAID BIOS Additional Features Form Factor IT8712F System voltage detection CPU temperature detection CPU / System fan speed detection CPU warning temperature CPU fan failure warning CPU smart fan control Onboard nForce4(-4X) chipset (S_ATA0, S_ATA1, S_ATA2, S_ATA3) - supports data striping (RAID 0) or mirroring (RAID 1) function or striping + mirroring (RAID 0+1) - supports data transfer rate of up to 150 MB/s - supports hot plugging function - supports a maximum of 4 SATA connections Supported on the Win 2000/XP operating systems Use of licensed AWARD BIOS Supports Q-Flash Supports @BIOS Supports EasyTune 5 (Note 3) Micro ATX form factor; 24.4cm x 24.4cm English (Note 3) EasyTune 5 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 will not insert properly. If this occurs, please change the insert direction of the CPU. 3. Please add an even layer of heat sink paste between the CPU and heatsink.

4. Please make sure the heatsink is installed on the CPU prior to system use, otherwise overheating and permanent damage of the CPU may occur. 5. Please set the CPU host frequency in accordance with the processor specifications. It is not recommended that the system bus frequency be set beyond hardware specifications since it does not meet the required standards for the peripherals.

If you wish to set the frequency beyond the proper specificati (DS: Double Side, SS: Single Side) DDR 1 2 memory modules 4 memory modules 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 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-K8NMF-9 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). IEEE1394 Port Connects the IEEE1394 devices to this connector. USB port Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker..

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

For more information please contact your OS or device(s) vendors. Parallel Port The parallel port allows connection of a printer, scanner and other peripheral devices. COMA, COMB (Serial Port) Connects to serial-based mouse or data processing devices. LAN Port The provided Internet connection is fast Ethernet, providing data transfer speeds of 10/100Mbps. Line In Devices like CD-ROM, walkman etc. can be connected to Line In jack. Line Out Connect the stereo speakers, earphone or front surround speakers to this connector. MIC In Microphone can be connected to MIC In jack. You can use audio software to configure 2-/4-/6-/8-channel audio functioning. - 17 - Hardware Installation English 1-7 Connectors Introduction 1 3 2 5 6 10 8 11 16 9 12 13 17 4 15 14 7

1) 2) 3) 4) 5) 6) 7) 8) 9) ATX_12V ATX (Power Connector) CPU_FAN SYS_FAN FDD IDE1 / IDE2 S_ATA0 / S_ATA1 / S_ATA2 / S_ATA3 BAT F_PANEL 10) 11) 12) 13) 14) 15) 16) 17) F_AUDIO CD_IN SUR_CEN SPDIF_IO F_USB1 / F_USB2 F1_1394 CI CLR_CMOS GA-K8NMF-9 Motherboard - 18 - 1/2) ATX_12V/ATX (Power Connector) With the use of the power connector, the power supply can supply enough stable power to all the components on the motherboard.

Before connecting the power connector, please make sure that all components and devices are properly installed. Align the power connector with its proper location on the motherboard and connect tightly. The ATX_12V power connector mainly supplies power to the CPU. If the ATX_12V power connector is not connected, the system will not start. Caution! Please use a power supply that is able to handle the system voltage requirements. It is recommended that a power supply that can withstand high power consumption be used (300W or greater). If a power supply is used that does not provide the required power, the result can lead to an unstable system or a system that is unable to start. 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. 4 3 2 1 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 3.3V(Only for 24pins ATX) 3.3V -12V GND PS_ON(soft On/Off) GND GND GND -5V +5V +5V +5V GND 1 2 3 4 Pin No. 1 13 1 2 3 4 5 6 7 8 9 10 11 12 13 24 12 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.



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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 / 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. 34 33 2 1 GA-K8NMF-9 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) S_ATA0 / S_ATA1 / S_ATA2 / S_ATA3 (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 2 3 7 S_ATA0 1 1 S_ATA1 7 1 7 Definition GND TXP TXN GND RXN RXP GND 4 5 6 7 7 S_ATA2 1 S_ATA3 - 21 - Hardware Installation English 8) BAT (BATTERY) 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).

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. 3. Re-install the battery.

4. Plug the power cord and turn ON the computer. 9) F_PANEL (Front Panel Jumper) Please connect the power LED, PC speaker, reset switch and power switch etc. of your chassis front panel to the F_PANEL connector according to the pin assignment below. Message LED/ Power/ Sleep LED Power Switch Speaker Connector SPEAK+ SPEAK- PW+ PW- 2 1 NC RES+ RESHDHD+ IDE Hard Disk Active LED MSGMSG+ 20 19 Reset Switch MSG (Message LED/Power/Sleep LED) PW (Power Switch) SPEAK (Speaker Connector) Pin 1: LED anode(+) Pin 2: LED cathode(-) Open: Normal Operation Close: Power On/Off Pin 1: VCC(+) Pin 2- Pin 3: NC Pin 4: Data(-) Pin 1: LED anode(+) Pin 2: LED cathode(-) Open: Normal Operation Close: Reset Hardware System NC HD (IDE Hard Disk Active LED) RES (Reset Switch) NC GA-K8NMF-9 Motherboard - 22 - 10) F_AUDIO (Front Audio Panel Connector) If you want to use Front Audio connector, you must remove 5-6, 9-10 Jumper.

In order to utilize the front audio header, your chassis must have front audio connector. Also please make sure the pin assignments for the cable are the same as the pin assignments for the front audio header. To find out if the chassis you are buying support front audio connector, please contact your dealer. Please note, you can have the alternative of using front audio connector or of using rear audio connector to play sound. Pin No. 1 10 9 English Definition MIC GND MIC_BIAS POWER FrontAudio(R) Rear Audio (R)/ Return R NC No Pin FrontAudio (L) Rear Audio (L)/ Return L 2 3 4 5 6 7 8 9 10 2 1 11) CD_IN (CD In Connector) Connect CD-ROM or DVD-ROM audio out to the connector. 1 Pin No. 1 2 3 4 Definition CD-L GND GND CD-R - 23 - Hardware Installation English 12) SUR_CEN (Surround Center Connector) Please contact your nearest dealer for optional SUR_CEN cable. Pin No. 1 2 1 8 7 Definition SUR OUTL SUR OUTR GND No Pin CENTER_OUT BASS_OUT AUX_L AUX_R 2 3 4 5 6 7 8 13) SPDIF_IO (SPDIF In / Out Connector) The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder.

Use this feature only when your stereo system has digital input and output function. Use SPDIF in feature only when your device has digital output function. Be careful with the polarity of the SPDIF_IO connector. Check the pin assignment carefully while you connect the SPDIF cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional SPDIF cable, please contact your local dealer. Pin No. 1 2 1 6 5 Definition Power No Pin SPDIF SPDIFI GND GND 2 3 4 5 6 GA-K8NMF-9 Motherboard - 24 - 14) F_USB1 / F_USB2 (Front USB Connector) Be careful with the polarity of the front USB connector. Check the pin assignment carefully while you connect the front USB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional front USB cable, please contact your local dealer. Pin No. 1 2 3 4 5 6 7 8 9 10 Definition Power Power USB DXUSB DyUSB DX+ USB Dy+ GND GND No Pin NC English 2 1 10 9 15) F1_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. Pin No.

2 1 10 9 Definition TPA0+ TPA0GND GND TPB0+ TPB0Power Power No Pin GND 1 2 3 4 5 6 7 8 9 10 - 25 - Hardware Installation English 16) CI (Chassis Intrusion, Case Open) This 2-pin connector allows your system to enable or disable the "case open" item in BIOS if the system case has been remove. Pin No. 1 1 Definition Signal GND 2 17) CLR_CMOS (Clear CMOS) You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short 1-2 pin. Default doesn't include the "Shunter" to prevent from improper use this jumper.

1 Open : Normal 1 Short : Clear CMOS GA-K8NMF-9 Motherboard - 26 - English - 27 - Hardware Installation English GA-K8NMF-9 Motherboard - 28 - Chapter 2 BIOS Setup BIOS (Basic Input and Output System) includes a CMOS SETUP utility which allows user to configure required settings or to activate certain system features. The CMOS SETUP saves the configuration in the CMOS SRAM of the motherboard. When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS SRAM.



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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. - 29 BIOS Setup English <F12> : For Boot Menu Select boot sequence for onboard (or add-on cards) device. Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2004, Award Software, Inc. GA-K8NMF-9 F8 . . . :BIOS Setup/Q-Flash, <F9>: Xpress Recovery, <F12>For Boot Menu 12/02/2005-NF-CK804-6A61FGC0FC-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. : F8) 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 ESC: Quit F8: Q-Flash Top Performance Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving : Select Item F10: Save & Exit Setup Time, Date, Hard Disk Type... If you can't find the setting you want, please press "Ctrl+F1" to search the advanced option hidden. 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-K8NMF-9 Motherboard - 30 - 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. 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. - 31 - 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, Feb 1 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 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. Use this to set the access mode for the hard drive. The four options are: CHS/LBA/Large/Auto(default:Auto) Hard drive information should be labeled on the outside drive casing.

Enter the appropriate option based on this information. Cylinder Head Precomp Landing Zone Sector Number of cylinders Number of heads Write precomp Landing zone Number of sectors - 32 Access Mode GA-K8NMF-9 Motherboard IDE Channel 2/3/4/5 Master IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection.



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Extended IDE Drive SATA devices setup. You can use one of two methods: Auto Allows BIOS to automatically detect SATA IDE devices during POST. (Default value) None Select this if no SATA IDE devices are used and the system will skip the automatic detection step and allow for faster system start up. Access Mode Use this to set the access mode for the hard drive. The two options are: Large/Auto(default:Auto) 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. 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 Normal Floppy Drive. (Default value) Drive A is 3 mode Floppy Drive. - 33 - 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 LSI20 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 LSI20. 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) Password Check 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. Setup The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt. (Default value) GA-K8NMF-9 Motherboard - 34 System 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. 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 IDE Primary Master RAID IDE Primary Slave RAID IDE Secndry Master RAID IDE Secndry Slave RAID NV Serial-ATA 1 NV SATA 1 class code NV SATA 1 Primary RAID NV SATA 1 Secondary RAID NV Serial-ATA 2 NV SATA 2 class code NV SATA 2 Primary RAID NV SATA 2 Secondary RAID IDE Prefetch Mode : Move [Enabled] [Enabled] [Enabled] [Auto] [Enabled] [Enabled] [Disabled] [Disabled] [Disabled] [Disabled] [Enabled] [0101] [Enabled] [Enabled] [Enabled] [0101] [Enabled] [Enabled] [Enabled] Item Help Menu Level x x x x x x 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 USB Memory Type AC97 Audio Onboard 1394 Onboard Serial Port 1 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 [SHADOW] [Auto] [3F8/IRQ4] [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 - 35 - BIOS Setup English On-Chip IDE Channel0 Enabled Disabled Enabled Disabled Enabled Disabled Auto 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. Auto-detect onboard LAN chip function. (Default value) Disable onboard LAN chip function. On-Chip IDE Channel1 IDE DMA transfer access On-Chip MAC Lan 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 (Note) Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled 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.



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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. Set NV SATA 1 class code to 0101. (Default value) Set NV SATA 1 class code to 0104. IDE Primary Master RAID IDE Primary Slave RAID IDE Secondary Master RAID IDE Secondary Slave RAID NV Serial-ATA 1 Enabled Disabled 0101 0104 NV SATA 1 class code(Note) (Note) When using driver version 1.2, please enable "NV IDE/SATA RAID function" if you wish to create RAID data drive or install O.S. on the RAID drive. And manually set "NV SATA1/NV SATA 2 class code" from 0101 to 0104. If your SATA hard drive is connected to the SATA0 or SATA1 connector, please set "NV SATA1 class code" to 0104. If your SATA hard drive is connected to the SATA2 or SATA3 connector, please set "NV SATA2 class code" to 0104. GA-K8NMF-9 Motherboard - 36 - NV SATA 1 Primary RAID Enabled Disabled Enabled Disabled Enable 1st SATA primary RAID function. (Default value) Disable this function. (Default value) Enable 1st SATA secondary RAID function. (Default value) Disable this function. Enable Serial ATA 2 supported. (Default value) Disable Serial ATA 2 supported. Set NV SATA 2 class code to 0101. (Default value) Set NV SATA 2 class code to 0104.

Enable 2nd SATA primary RAID function. (Default value) Disable this function. Enable 2nd SATA secondary RAID function. (Default value) Disable this function. Enable IDE Prefetch mode. (Default value) Disable IDE Prefetch mode. Set USB memory type to SHADOW. (Default value) Set USB memory type to base memory(640K). English NV SATA 1 Secondary RAID NV Serial-ATA 2 Enabled Disabled 0101 0104 Enabled Disabled Enabled Disabled NV SATA 2 class code(Note) NV SATA 2 Primary RAID NV SATA 2 Secondary RAID IDE Prefetch Mode Enabled Disabled USB Memory Type SHADOW 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. BIOS will automatically setup the port 1 address. Enable onboard Serial port 1 and address is 3F8/IRQ4. (Default value) Enable onboard Serial port 1 and address is 2F8/IRQ3. Enable onboard Serial port 1 and address is 3E8/IRQ4. Enable onboard Serial port 1 and address is 2E8/IRQ3. Disable onboard Serial port 1. BIOS will automatically setup the port 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. - 37 BIOS Setup Onboard 1394 Enabled Disabled Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Onboard Serial Port 1 Onboard Serial Port 2 English Onboard Parallel Port Disabled 378/IRQ7 278/IRQ5 3BC/IRQ7 Disable onboard LPT port.

Enable onboard LPT port and address is 378/IRQ7. (Default value) Enable onboard LPT port and address is 278/IRQ5. 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 detection function. (Default value) Disable this function. Parallel Port Mode SPP EPP ECP ECP+EPP 3 1 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-K8NMF-9 Motherboard - 38 - 2-4 Power Management Setup CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Power Management Setup [S1(POS)] [Instant-off] [Disabled] [Disabled] [Disabled] [Disabled] Everyday 0:0:0 [Disabled] [Disabled] Enter [Soft-Off] Item Help Menu Level English ACPI Suspend Type Soft-Off by 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 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. 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) - 39 - BIOS Setup English Power On by Mouse Disabled Double Click Disabled 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) 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 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. 2-5 PnP/PCI Configurations CMOS Setup Utility-Copyright (C) 1984-2005 Award Software PnP/PCI Configurations PCI 1 IRQ Assignment [Auto] Item Help Menu Level Device(s) using this INT: : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F10: Save F6: Fail-Save Defaults ESC: Exit F1: General Help F7: Optimized Defaults PCI 1 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI 1.



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(Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI I/5. GA-K8NMF-9 Motherboard - 40 - 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] Yes OK OK OK OK 44 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 English 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. Reset Case Open Status Disabled Enabled Don't reset case open status.

(Default value) Clear case open status at next boot. Case Opened If the case is closed, "Case Opened" will show "No". If the case has been opened, "Case Opened" will show "Yes". If you want to reset "Case Opened" value, set "Reset Case Open Status" to Enabled then save BIOS setup and restart your system. Current Voltage(V) Vcore / DDR25V / +3.

3V / +12V Detect system's voltage status automatically. - 41 BIOS Setup English Current CPU Temperature Detect CPU temperature automatically. Current CPU/SYSTEM FAN Speed (RPM) Detect CPU/SYSTEM fan speed status automatically. CPU Warning Temperature 60o C / 140oF 70o C / 158oF 80o C / 176oF 90o C / 194oF Disabled Disabled Enabled Disabled Enabled Monitor CPU temperature at 60oC / 140 oF. Monitor CPU temperature at 70oC / 158 oF.

Monitor CPU temperature at 80oC / 176 oF. Monitor CPU temperature at 90oC / 194 oF. Disable this function. (Default value) 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 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. The CPU fan runs at full speed when both CPU Smart FAN Control and CPU FAN Manual Control are disabled.

(Note) 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. GA-K8NMF-9 Motherboard - 42 - 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. English 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. 2-7 Top Performance CMOS Setup Utility-Copyright (C) 1984-2005 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup Top Performance PnP/PCI

Configurations Disabled.....

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

[] 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: Abort Load 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. - 43 - BIOS Setup English 2-8 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 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 Save & Exit Setup 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.



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