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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-M55S-S3. You'll find the answers to all your questions on the GIGABYTE GA-M55S-S3 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-M55S-S3**  
**User guide GIGABYTE GA-M55S-S3**  
**Operating instructions GIGABYTE GA-M55S-S3**  
**Instructions for use GIGABYTE GA-M55S-S3**  
**Instruction manual GIGABYTE GA-M55S-S3**

## **GA-M55S-S3 (rev. 2.0)**

AMD Socket AM2 Processor Motherboard

User's Manual

Rev. 2002  
12ME-M55S3R-2002R

 \* 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:**

@@@2.0) Motherboard GA-M55S-S3 (rev. 2.0) Nov. 10, 2006 Nov. 10, 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 "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](http://www.gigabyte.com.tw)

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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 AM2 for AMD Athlon TM 64 FX / Athlon TM 64 X2 Dual-Core / AthlonTM 64 / Sempron TM processor 2000 MHz nVIDIA® nForce 550 Marvell 88E1116 phy (10/100/1000 Mbit) Onboard Realtek ALC888 CODEC chip Supports High Definition Audio Supports 2 / 4 / 6 / 8 channel audio Supports S/PDIF In/Out connection Supports CD In connection Onboard T. I. TSB43AB23 chip 3 IEEE1394a ports nVIDIA® nForce 550 - 1 FDD connector, allowing connection of 2 FDD devices - 1 IDE connector with UDMA 33/ATA 66/ATA 100/ATA 133 support, allowing connection of 2 IDE devices - 4 SATA 3Gb/s connectors (SATAII1, SATAII2, SATAII3, SATAII4), allowing connection of 4 SATA 3Gb/s devices - Supports data striping (RAID 0), mirroring (RAID 1), striping+mirroring (RAID 0+1), and RAID 5 for Serial ATA Microsoft Windows ® 2000/XP 4 DDRII DIMM memory slots (supports up to 16 GB memory) (Note 1) Supports dual channel DDRII 800/667/533 DIMMs Supports 1.



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8V DDRII DIMM Supports ECC Memory 1 PCI Express x16 slot 4 PCI Express x1 slots 2 PCI slots 1 24-pin ATX power connector 1 4-pin ATX 12V power connector 1 floppy connector 1 IDE connector 4 SATA 3Gb/s connectors 1 CPU fan connector 1 system fan connector 1 power fan connector 1 front panel connector 1 front audio connector 1 CD In connector 1 S/PDIF In connector 3 USB 2.0/1.1 connectors for additional 6 USB 2.

0/1.1 ports by cables 2 IEEE 1394a connectors for additional 2 ports by cables 1 Chassis Intrusion connector 1 power LED connector - 10 - Front Side Bus Chipset LAN Audio IEEE 1394 Storage O.S Support Memory Expansion Slots Internal Connectors GA-M55S-S3 (rev. 2.0) Motherboard English 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 S/PDIF out port (coaxial) 1 S/PDIF out port (optical) 1 serial port (COMA) 4 USB 2.

0/1.1 ports 1 IEEE 1394a port 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) IT8716 chip System voltage detection CPU temperature detection CPU / Power / System fan speed detection CPU warning temperature CPU / Power / System fan failure warning Supports CPU Smart Fan function (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 B The motherboard supports DDRII memory modules, whereby BIOS will automatically detect memory capacity and specifications. Memory modules are designed so that they can be inserted only in one direction. The memory capacity used can differ with each slot. Notch DDRII Fig.1 The DIMM socket has a notch, so the DIMM memory module can only fit in one direction. Insert the DIMM memory module vertically into the DIMM socket. Then push it down.

Fig.2 Close the plastic clip at both edges of the DIMM sockets to lock the DIMM module.

Reverse the installation steps when you wish to remove the DIMM module. GA-M55S-S3 (rev. 2.0) Motherboard - 14 - English Dual Channel Memory Configuration The GA-M55S-S3 supports the Dual Channel Technology. After operating the Dual Channel Technology, the bandwidth of Memory Bus will double. Due to CPU limitation, if you wish to operate the Dual Channel Technology, follow the guidelines below: 1. Dual Channel mode will not be enabled if only one memory module is installed. 2. To enable Dual Channel mode with two 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 four 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, "--": Empty) DIMM Socket 2 memory modules 4 memory modules DDRII\_1 DS/SS -DS/SS DDRII\_2 DS/SS -DS/SS DDRII\_3 -DS/SS DS/SS DDRII\_4 -DS/SS DS/SS If two memory modules are to be used to achieve Dual Channel mode, we recommend installing them in DDRII\_1 and DDRII\_2 DIMM sockets. - 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 x16 expansion card: Please carefully pull out the small whitedrawable bar at the end of the PCI Express x16 slot when you try to install/ uninstall the VGA card. Please align the VGA card to the onboard PCI Express x16 slot and press firmly down on the slot.

Make sure your VGA card is locked by the small white-drawable bar. To install a VGA card or to release an installed card, users can also press the latch on the back of the drawable bar as the picture to the left shows. GA-M55S-S3 (rev. 2.0) 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\_O (COATIAL) The S/PDIF coaxial output port is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder via a coaxial cable. SPDIFO\_OPT (OPTICAL) The S/PDIF optical output port is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder via an optical cable. COMA (Serial Port) Connects to serial-based mouse or data processing devices. IEEE 1394a Port Serial interface standard set by Institute of Electrical and Electronics Engineers, which has features like high speed, high bandwidth and hot plug.

USB Port Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker...etc. have a standard USB interface.

Also make sure your OS supports USB controller. If your OS does not support USB controller, please contact OS vendor for possible patch or driver upgrade. For more information please contact your OS or device(s) vendors. LAN Port The provided Internet connection is Gigabit Ethernet , providing data transfer speeds of 10/100/ 1000Mbps. Center/Subwoofer Speaker Out The default Center/Subwoofer Speaker Out jack.

Center/Subwoofer speakers can be connected to Center/Subwoofer Speaker Out jack. Surround Speaker Out (Rear Speaker Out) The default Surround Speaker Out (Rear Speaker Out) jack. Rear surround speakers can be connected to Surround Speaker Out (Rear Speaker Out) jack. Side Speaker Out The default Side Speaker Out jack. Surround side speakers can be connected to Side Speaker Out jack. - 17 Hardware Installation English Line In The default Line In jack. Devices like CD-ROM, walkman etc. can be connected to Line In jack. Line Out (Front Speaker Out) The default Line Out (Front Speaker Out) jack. Stereo speakers, earphone or front surround speakers can be connected to Line Out (Front Speaker Out) jack.

MIC In The default MIC In jack. Microphone must be connected to MIC In jack. In addition to the default speakers settings, the ~ audio jacks can be reconfigured to perform different functions via the audio software.



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Only microphones still MUST be connected to the default Mic In jack ( ). Please refer to the 2-/4-/6-/8- channel audio setup steps for detailed software configuration information. 1-7 Connectors Introduction 3 1 4 6 2 8 13 9 9 15 14 19 10 5 7 17 18 12 11 16 1) 2) 3) 4) 5) 6) 7) 8) 9) 10) ATX\_12V ATX (Power Connector) PCIE\_12V CPU\_FAN SYS\_FAN PWR\_FAN FDD IDE1 SATAIII / 2 / 3 / 4 BATTERY 11) 12) 13) 14) 15) 16) 17) 18) 19) F\_PANEL PWR\_LED F\_AUDIO CD\_IN SPDIF\_I F\_USB1 / F\_USB2 / F\_USB3 F1\_1394 / F2\_1394 CI CLR\_CMOS GA-M55S-S3 (rev. 2.0) 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 (400W 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. English 2 4 ATX\_12V 1 3 Pin No. 1 2 3 4 Definition GND GND +12V +12V 12 24 Pin No. 1 2 3 4 5 6 7 8 9 10 11 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) Pin No. 13 14 15 16 17 18 19 20 21 22 23 24 Definition 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) 1 ATX 13 12 - 19 - Hardware Installation English 3) PCIE\_12V (Power Connector) The PCIE\_12V power connector supplies extra power to the PCIE x16 slot. Connect this connector depending on your system requirements. 1 Pin No. 1 2 3 4 Definition NC GND GND +12V 4/5/6) CPU\_FAN / SYS\_FAN / PWR\_FAN (Cooler Fan Power Connector) The cooler fan power connector supplies a +12V power voltage via a 3-pin/4-pin (only for CPU\_FAN) 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).

Remember to connect the CPU/system/power fan cable to the CPU\_FAN/SYS\_FAN/PWR\_FAN connector to prevent CPU damage or system hanging caused by overheating. CPU\_FAN : 1 CPU\_FAN Pin No. 1 2 3 1 SYS\_FAN Definition GND +12V / Speed Control Sense Speed Control 4 SYS\_FAN / PWR\_FAN : Pin No. 1 2 3 1 PWR\_FAN Definition GND +12V Sense GA-M55S-S3 (rev. 2.0) Motherboard - 20 - 7) 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.

Before attaching the FDD cable, please take note of the foolproof groove in the FDD connector. English 33 1 34 2 8) IDE1 (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). Before attaching the IDE cable, please take note of the foolproof groove in the IDE connector.

40 39 2 1 - 21 - Hardware Installation English 9) SATAIII / 2 / 3 / 4 (SATA 3Gb/s Connectors, Controlled by nForce 550) SATA 3Gb/s can provide up to 300MB/s transfer rate. Please refer to the BIOS setting for the SATA 3Gb/s and install the proper driver in order to work properly. Pin No. SATAII4 Definition GND TXP TXN GND RXN RXP GND 1 2 3 4 1 5 6 7 7 SATAII1 SATAII2 SATAII3 10) 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. Gently take out the battery and put it aside for about one minute. (Or you can use a metal object to connect the positive and negative pins in the battery holder to make them short for five seconds.) 3.

Re-install the battery. 4. Plug the power cord in and turn on the computer. GA-M55S-S3 (rev. 2.0) Motherboard - 22 - 11) 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 English MSG+ MSGPW+ PW- SPEAK+ 2 1 RES+ NC HD- HD+ IDE Hard Disk Active LED MSG (Message LED/Power/Sleep LED) (Yellow) PW (Power Switch) (Red) SPEAK (Speaker Connector) (Amber) HD (IDE Hard Disk Active LED) (Blue) RES (Reset Switch) (Green) NC ( Purple) Pin 1: LED anode(+) Pin 2: LED cathode(-) Open: Normal Close: Power On/Off Pin 1: Power Pin 2- Pin 3: NC Pin 4: Data(-) Pin 1: LED anode(+) Pin 2: LED cathode(-) Open: Normal Close: Reset Hardware System NC - 23 - RES- Reset Switch SPEAK- 20 19 Hardware Installation English 12) PWR\_LED The PWR\_LED connector is connected with the system power indicator to indicate whether the system is on/off. It will blink when the system enters suspend mode(S1). Pin No.

1 Definition MPD+ MPDMPD- 1 2 3 13) F\_AUDIO (Front Audio Connector) This connector supports either HD (High Definition) or AC'97 front panel audio module. If you wish to use the front audio function, connect the front panel audio module to this connector. Check the pin assignments carefully while you connect the front panel audio module. Incorrect connection between the module and connector will make the audio device unable to work or even damage it. For optional front panel audio module, please contact your chassis manufacturer.

10 9 2 1 HD Audio: Pin No. 1 2 3 4 5 6 7 8 9 10 Definition MIC2\_L GND MIC2\_R -ACZ\_DET LINE2\_R FSENSE1 FAUDIO\_JD No Pin LINE2\_L FSENSE2 AC'97 Audio: Pin No. Definition 1 2 3 4 5 6 7 8 9 10 MIC GND MIC Power NC Line Out (R) NC NC No Pin Line Out (L) NC By default, the audio driver is configured to support HD Audio. To connect an AC'97 front panel audio module to this connector, please refer to the instructions on page 81 about the software settings.



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2.0) Motherboard - 24 - 14) CD\_IN (CD In Connector) Connect CD-ROM or DVD-ROM audio out to the connector. English Pin No. 1 2 3 1 Definition CD-L GND GND CD-R 4 15) SPDIF\_I (S/PDIF In Connector) Use S/PDIF IN feature only when your device has digital output function. Be careful with the polarity of the S/PDIF\_I connector. Check the pin assignment carefully while you connect the S/PDIF cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional S/PDIF cable, please contact your local dealer. Pin No. 1 2 3 1 Definition Power SPDIFI GND - 25 - Hardware Installation English 16) F\_USB1 / F\_USB2 / F\_USB3 (Front USB Connector) Be careful with the polarity of the front USB connector. Check the pin assignment carefully while you connect the front USB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it.

For optional front USB cable, please contact your local dealer. Pin No. 1 1 2 Definition Power (5V) Power (5V) USB DX USB Dy USB DX+ USB Dy+ GND GND No Pin NC 2 3 4 5 6 7 8 9 10 9 10 17) F1\_1394 / F2\_1394 (Front IEEE 1394 Connector) 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 IEEE 1394 connector. Check the pin assignment carefully while you connect the IEEE 1394 cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional IEEE 1394 cable, please contact your local dealer. Pin No. 2 1 10 9 Definition TPA+ TPAGND GND TPB+ TPB No Pin Power (12V) Power (12V) GND 1 2 3 4 5 6 7 7 8 10 GA-M55S-S3 (rev. 2.0) Motherboard - 26 - 18) CI (Chassis Intrusion, Case Open) This 2-pin connector allows your system to detect if the chassis cover is removed.

You can check the "Case Opened" status in BIOS Setup. English Pin No. 1 1 Definition Signal GND 2 19) CLR\_CMOS (Clear CMOS) You may clear the CMOS data to its default values by this header. To clear CMOS, temporarily short the two pins. Default doesn't include the jumper to avoid improper use of this header.

Open: Normal Short: Clear CMOS - 27 - Hardware Installation English GA-M55S-S3 (rev. 2.0) Motherboard - 28 - Chapter 2 BIOS Setup BIOS (Basic Input and Output System) includes a CMOS SETUP utility which allows user to configure required settings or to activate certain system features. The CMOS SETUP saves the configuration in the CMOS SRAM of the motherboard. When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS SRAM.

When the power is turned on, pressing the <Del> 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". If you wish to upgrade to a new BIOS, either Gigabyte's Q-Flash or @BIOS utility can be used. Q-Flash allows the user to quickly and easily update or backup BIOS without entering the operating system. @BIOS is a Windows-based utility that does not require users to boot to DOS before upgrading BIOS but directly download and update BIOS from the Internet. English CONTROL KEYS < > < > < > <Enter> <Esc> < > < > Move to select item Select Item Main Menu - Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu - Exit current page and return to Main Menu Increase the numeric value or make changes Decrease the numeric value or make changes General help, only for Status Page Setup Menu and Option Page Setup Menu Item Help Restore the previous CMOS value from CMOS, only for Option Page Setup Menu Load the fail-safe default CMOS value from BIOS default table Load the Optimized Defaults Q-Flash utility System Information Save all the CMOS changes, only for Main Menu Save CMOS to BIOS - CMOS Profiles Load CMOS from BIOS - CMOS Profiles <Page Up> <Page Down> <F1> <F2> <F5> <F6> <F7> <F8> <F9> <F10> <F11> <F12> 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) 1984-2006, Award Software, Inc. M55S-S3 FAa . . . <DEL>:BIOS Setup/Q-Flash, <F9>: XpressRecovery2, <F12>: Boot Menu 09/28/2006-NV-MCP55S-6A61JG07C-00 Boot Menu == Select a Boot First device == Floppy LS120 Hard Disk CDROM ZIP USB-FDD USB-ZIP USB-CDROM USB-HDD Legacy LAN :Move Enter:Accept ESC:Exit Press F12 Press <F12> to enter the Boot Menu and use < > or < > to select a device, then press enter to accept. Press <ESC> to exit this menu. The Main Menu (For example: BIOS Ver. : FAa) 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) 1984-2006 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.

.. F11: Save CMOS to BIOS F12: Load CMOS from BIOS Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving 1. If you don't find the settings you want, press "Ctrl+F1" to access advanced options. 2. Select the Load Optimized Defaults item in the BIOS Setup when somehow the system is not stable as usual. This action makes the system reset to the default settings for stability. 3. The BIOS Setup menus described in this chapter are for reference only and may differ from the exact settings for your motherboard. BIOS Setting Recovery F11 : Save CMOS to BIOS This function allows you to make a record of the current CMOS settings as a profile. You can create up to 8 profiles (Profile 1-8) and give each of them a name. F12 : Load CMOS from BIOS If your system becomes unstable and you load the default BIOS settings, you can use this function to reload the CMOS settings with a CMOS settings profile created before, without the hassles of resetting the CMOS configurations.



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GA-M55S-S3 (rev. 2.0) 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 about system autodetect temperature, voltage, fan speed, etc. MB Intelligent Tweaker(M.I.T.) This setup page is to control CPU clock and frequency ratio. Load Fail-Safe Defaults Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration.

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) 1984-2006 Award Software Standard CMOS Features Date (mm:dd:yy) Time (hh:mm:ss) IDE Channel 0 Master IDE Channel 0 Slave IDE Channel 2 Master IDE Channel 3 Master IDE Channel 4 Master IDE Channel 5 Master Drive A Drive B Floppy 3 Mode Support Halt On Base Memory Extended Memory Mon, Oct 30 2006 9:45:15 [None] [None] [None] [None] [None] [None] [1.44M, 3.5"] [None] [Disabled] [All, But Keyboard] 640K 511M Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help 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 based on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00. IDE Channel 0 Master/Slave IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection. IDE Channel 0 Master/Slave devices setup. You can use one of three methods: Auto Allows BIOS to automatically detect IDE/SATA devices during POST.

(Default value) None Select this if no IDE/SATA devices are used and the system will skip the automatic detection step and allow for faster system start up.

Manual User can manually input the correct settings. Access Mode Use this to set the access mode for the hard drive. The four options are:

CHS/LBA/Large/Auto(default:Auto) IDE Channel 2/3/4/5 Master IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection.

Extended IDE Drive You can use one of the two methods: Auto Allows BIOS to automatically detect IDE/SATA devices during POST(default) None Select this if no IDE/SATA devices are used and the system will skip the automatic detection step and allow for faster system start up. GA-M55S-S3 (rev. 2.0)

Motherboard - 32 - Use this to set the access mode for the hard drive. The two options are: Large/Auto(default:Auto) Capacity Capacity of currently installed hard drive. Hard drive information should be labeled on the outside drive casing.

Enter the appropriate option based on this information. Cylinder Number of cylinders Head Number of heads Precomp Write precomp Landing Zone Landing zone Sector Number of sectors Access Mode English Drive A / Drive B The category identifies the types of floppy disk drive A or drive B that has been installed in the computer. None No floppy drive installed. 360K, 5.25" 5.

25 inch PC-type standard drive; 360K byte capacity. 1.2M, 5.25" 5.25 inch AT-type high-density drive; 1.

2M byte capacity. (3.5 inch when 3 Mode is Enabled). 720K, 3.5" 3.5 inch double-sided drive; 720K byte capacity . 1.44M, 3.5" 3.5 inch double-sided drive;

44M byte capacity. 2.88M, 3.5" 3.5 inch double-sided drive; 2.88M byte capacity. Floppy 3 Mode Support (for Japan Area) Disabled Drive A Drive B Both Normal Floppy Drive. (Default value) Drive A is 3 mode Floppy Drive. Drive B is 3 mode Floppy Drive. Drive A & B are 3 mode Floppy Drives.

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

All, But Disk/Key The system boot will not stop for a keyboard or disk error; it will stop for all other errors. Memory The category is display-only which is determined by POST (Power On Self Test) of the BIOS. Base Memory The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system. The value of the base memory is typically 512K for systems with 512K memory installed on the motherboard, or 640K for systems with 640K or more memory installed on the motherboard. Extended Memory The BIOS determines how much extended memory is present during the POST.

This is the amount of memory located above 1 MB in the CPU's memory address map. - 33 BIOS Setup English 2-2 Advanced BIOS Features CMOS Setup Utility-Copyright (C) 1984-2006 Award Software Advanced BIOS Features Hard Disk Boot Priority First Boot Device Second Boot Device Third Boot Device Boot Up Floppy Seek Password Check Away Mode Init Display First [Press Enter] [Floppy] [Hard Disk] [CDROM] [Disabled] [Setup] [Disabled] [PEG]

Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults 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 Legacy LAN Disabled Select your boot device priority by Floppy. Select your boot device priority by LS120. Select your boot device priority by Hard Disk. Select your boot device priority by CDROM.



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Select your boot device priority by ZIP. Select your boot device priority by USB-FDD.

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

(Default value) GA-M55S-S3 (rev. 2.0) Motherboard - 34 - 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) Disable this function.

(Default value) Enable Away Mode in Windows XP Media Center operating system. (Away Mode: Enables the system to silently perform unattended tasks while in a low-power mode that appears off.) English Away Mode Disabled Enabled 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. PCI Slot Set Init Display First to PCI VGA card. PEG Set Init Display First to PCI Express VGA card. (Default value) - 35 - BIOS Setup English 2-3 Integrated Peripherals CMOS Setup Utility-Copyright (C) 1984-2006 Award Software Integrated Peripherals [Press Enter] [Enabled] [Auto] [All Enabled] [Enabled] [Auto] [Press Enter] [Enabled] [Disabled] [3F8/IRQ4] [378/IRQ7] [SPP] 3 [V1.1+V2.0] [Disabled] [Disabled] [Enabled] Item Help Menu Level Serial-ATA RAID Config On-Chip IDE Channel0 On-Chip MAC Lan NV Serial-ATA Controller IDE Prefetch Mode Onboard Audio Function SMART LAN Onboard 1394 Onboard LAN Boot ROM Onboard Serial Port 1 Onboard Parallel Port Parallel Port Mode x ECP Mode Use DMA On-Chip USB Keyboard Support USB Mouse Support Legacy

USB storage detect : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults Serial-ATA RAID Config NV SATA RAID function NV SATA 1 Primary RAID NV SATA 1 Secondary RAID NV SATA 2 Primary RAID NV SATA 2 Secondary RAID Integrated Peripherals CMOS Setup Utility-Copyright (C) 1984-2006 Award Software Serial-ATA RAID Config [Disabled] Enabled Enabled Enabled Enabled Item Help Menu Level x x x x : Move Enter: Select +/-/PU/PD: Value F10: Save F5: Previous Values F6: Fail-Safe Defaults : Move Enter: Select +/-/PU/PD: Value F10: Save F11/12: Profile F5: Previous Values F6: Fail-Safe Defaults ESC: Exit F1: General Help F7: Optimized Defaults ESC: Exit F1: General Help F7: Optimized Defaults NV SATA RAID function Enabled Disabled Enabled Disabled Enabled Disabled Enabled Disabled Allows users to configure individual SATA channels as RAID or ATA mode. Disable the RAID function for all of the onboard SATA channels. (Default value) Enable RAID function for the first channel of the first SATA controller.

(Default value) Disable the RAID function of this channel. It will operate in ATA mode. Enable RAID function for the second channel of the first SATA controller. (Default value) Disable the RAID function of this channel. It will operate in ATA mode. Enable RAID function for the first channel of the second SATA controller. (Default value) Disable the RAID function of this channel. It will operate in ATA mode. NV SATA 1 Primary RAID NV SATA 1 Secondary RAID NV SATA 2 Primary RAID GA-M55S-S3 (rev. 2.

0) Motherboard - 36 - NV SATA 2 Secondary RAID Enabled Disabled Enabled Disabled Disabled Auto Disabled SATA-1 All Enabled Enabled Disabled Auto Disabled Enable RAID function for the second channel of the second SATA controller. (Default value) Disable the RAID function of this channel. It will operate in ATA mode. Enable onboard first channel IDE port. (Default value) Disable onboard first channel IDE port. Disable the Lan controller built-in core chipset. Enable the Lan controller built-in core chipset. (Default value) Disable the 2 SATA controllers. Enable the first SATA controller only. Enable the 2 SATA controllers.

(Default value) Enable IDE data buffer to enhance HDD transfer speed. (Default value) Disable IDE data buffer for the system stability. Auto-detect onboard audio function. (Default value) Disable this function. English On-Chip IDE Channel0 On-Chip MAC Lan NV Serial-ATA Controller IDE Prefetch Mode Onboard Audio Function SMART LAN CMOS Setup Utility-Copyright (C) 1984-2006 Award Software SMART LAN Start detecting at Port..... Pair1-2 Status = Pair3-6 Status = Pair4-5 Status = Pair7-8 Status = Normal Normal Normal Normal / / / / Length Length Length Length = = = = N/A N/A N/A N/A Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults This motherboard incorporates cable diagnostic feature designed to detect the status of the attached LAN cable.

This feature will detect cabling issue and report the approximate distance to the fault or short. Refer to the following information for diagnosing your LAN cable: - 37 - BIOS Setup English When LAN Cable Is Functioning Normally... 1. If no cable problem is detected on the LAN cable connected to a Gigabit hub, the Status fields of Pair 1-2, Pair 3-6, Pair 4-5, and Pair 7-8 will show Normal and the Length fields will show N/A, as shown in the figure above. 2. If no cable problem is detected on the LAN cable connected to a 10/100 Mbps hub, the Status fields of Pair 1-2 and Pair 3-6 will show Normal and the Length fields will show N/A. However, because Pair 4-5 and Pair 7-8 are not used in a 10/100 Mbps environment, their Status fields will show Short or Open, and the length shown is the approximate length of the attached LAN cable. When a Cable Problem Occurs.

.. If a cable problem occurs on a specified pair of wires, the Status field will show Short or Open and the length shown will be the approximate distance to the fault or short. For example, if it shows Pair1-2 Status = Short / Length = 1.6m, it means that a fault or short might occur at about 1.6m on Pair 1-2. When No LAN Cable Is Attached... If no LAN cable is attached to the motherboard, the Status fields of all four pairs of wires will show Open and the Length fields show 0.

0m. Onboard 1394 Enabled Disabled Enable onboard IEEE 1394 function. (Default value) Disable onboard IEEE 1394 function. Onboard LAN Boot ROM This function decide whether to invoke the boot ROM of the onboard LAN chip.



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Enabled Disabled Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled Disabled 378/IRQ7 278/IRQ5 3BC/IRQ7 SPP EPP ECP ECP+EPP Enable this function. Disable this function. (Default value) 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. 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.

Onboard Serial Port 1 Onboard Parallel Port Parallel Port Mode GA-M55S-S3 (rev. 2.0) Motherboard - 38 - ECP Mode Use DMA This item will become available when Parallel Port Mode set to ECP or ECP+EPP. 3 Set ECP Mode Use DMA to 3. (Default value) 1 Set ECP Mode Use DMA to 1.

English On-Chip USB V1.1+V2.0 V1.1 Disabled Enabled Disabled Enabled Disabled Enable USB 1.1 and USB 2.

0 controllers. (Default value) Enable only USB 1.1 controller Disable onchip USB support. Enable USB keyboard support. Disable USB keyboard support. (Default value) Enable USB mouse support. Disable USB mouse support. (Default value) USB Keyboard Support USB Mouse Support Legacy USB storage detect This option allows users to decide whether to detect USB storage devices, including USB flash drives and USB hard drives during POST. Enabled BIOS will scan all USB storage devices. (Default value) Disabled Disable this function.

- 39 - BIOS Setup English 2-4 Power Management Setup CMOS Setup Utility-Copyright (C) 1984-2006 Award Software Power Management Setup [SI(POS)] [Instant-Off] [Enabled] [Disabled] [Disabled] [Disabled] Everyday 0:0:0 [Disabled] [Disabled] Enter [Soft-Off] Item Help Menu Level ACPI Suspend Type Soft-Off by Power button PME Event Wake Up Modem Ring On USB Resume from Suspend Power-On by Alarm x Day of Month Alarm x Time (hh:mm:ss) Alarm Power On By Mouse Power On By Keyboard x KB Power ON Password AC BACK Function : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults ACPI Suspend Type S1(POS) S3(STR) Set ACPI suspend type to S1/POS(Power On Suspend). (Default value) Set ACPI suspend type to S3/STR(Suspend To RAM). Soft-Off by Power button Instant-Off Press power button then Power off instantly. (Default value) Delay 4 Sec. Press power button 4 sec. to Power off. Enter suspend if button is pressed less than 4 sec. PME Event Wake Up This feature requires an ATX power supply that provides at least 1A on the 5VSB lead. Disabled Disable this function. Enabled Enable PME as wake up event.

(Default value) Modem Ring On An incoming call via modem can awake the system from any suspend state. Disabled Disable this function. (Default value) Enabled Enable Modem Ring On function. USB Resume from Suspend Disabled Enabled Disable this function. (Default value) Enable USB device wake up system from suspend mode.

Power-On by Alarm You can set "Power-On by Alarm" item to Enabled and key in Date/Time to power on system. Disabled Disable this function. (Default value) Enabled Enable alarm function to POWER ON system. If Power-On by Alarm is Enabled. Day of Month Alarm : Everyday, 1~31 Time (hh: mm: ss) Alarm : (0~23) : (0~59) : (0~59) GA-M55S-S3 (rev.

2.0) Motherboard - 40 - Power On By Mouse Disabled Double-Click Disabled Password Any KEY Keyboard 98 Disable this function. (Default value) Double click on PS/2 mouse left button to power on the system. Disable this function. (Default value) Enter from 1 to 5 characters to set the Keyboard Power On Password. Press any key to power on the system. If your keyboard have "POWER Key" button, you can press the key to power on the system. English Power On By Keyboard KB Power ON Password When "Power On by Keyboard" is set to 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. - 41 - BIOS Setup English 2-5 PnP/PCI Configurations CMOS Setup Utility-Copyright (C) 1984-2006 Award Software PnP/PCI Configurations PCI 2 IRQ Assignment PCI 1 IRQ Assignment [Auto] [Auto] Item Help Menu Level : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults PCI 2 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 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 1. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1. PCI 1 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 GA-M55S-S3 (rev. 2.0) Motherboard - 42 - 2-6 PC Health Status CMOS Setup Utility-Copyright (C) 1984-2006 Award Software PC Health Status Reset Case Open Status Case Opened Vcore DDR18V +3.3V +12V Current CPU Temperature Current CPU FAN Speed Current POWER FAN Speed Current SYSTEM FAN Speed CPU Warning Temperature CPU FAN Fail Warning POWER FAN Fail Warning SYSTEM FAN Fail Warning CPU Smart FAN Control (Note) CPU Smart FAN Mode [Disabled] Yes OK OK OK OK 45 oC 3245 RPM 0 RPM 0 RPM [Disabled] [Disabled] [Disabled] [Disabled] [Enabled] [Auto] Item Help Menu Level English : Move Enter: Select F5: Previous Values +/-/PU/PD: Value F6: Fail-Safe Defaults F10: Save ESC: Exit F1: General Help F7: Optimized Defaults 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 is opened, Case Opened will show "Yes." If you want to reset Case Opened value, enable Reset Case Open Status and save the change to CMOS, and then your computer will restart. Current Voltage(V) Vcore / DDR18V / +3.3V / +12V Detect system's voltage status automatically.

Current CPU Temperature Detect CPU temperature automatically. Current CPU/POWER/SYSTEM FAN Speed (RPM) Detect CPU/power/system fan speed status automatically. CPU Warning Temperature 60 o C / 140 o F 70 o C / 158 o F 80 o C / 176 o F 90 o C / 194 o F Disabled Disabled Enabled Monitor CPU temperature at 60o C / 140oF. Monitor CPU temperature at 70o C / 158oF. Monitor CPU temperature at 80o C / 176oF.

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



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(Default value) Enable CPU/Power/System fan fail warning function. CPU/POWER/SYSTEM FAN Fail Warning - 43 - BIOS Setup English CPU Smart FAN Control (Note) Disabled Enabled 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. @@@@Please be aware that the M.I.T.

@@(Default value: Auto) Set PCIE Clock from 100 MHz to 200 MHz. @@@@Normal Supply DDR2 voltage as DDR2 requires. @@Normal Supply Chipset/PCIE voltage as Chipset/PCIE requires. @@Normal Supply HT-Link voltage as HT-Link requires. @@Normal Supply CPU HT-Link voltage as CPU HT-Link requires. @@Supports adjustable CPU Voltage from 0.8000V to 1.5500V. @@@@Type the password, up to eight characters, and press <Enter>. You will be asked to confirm the password.

Type the password again and press <Enter>. @@@@When disabled, anyone may access all BIOS Setup program function. 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-M55S-S3 (rev. 2.0) Motherboard - 48 - 2-11 Save & Exit Setup CMOS Setup Utility-Copyright (C) 1984-2006 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 Save Data to CMOS F11: Save CMOS to BIOS F12: Load CMOS from BIOS Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save to CMOS and EXIT (Y/N)?Exit Setup Save & Y Exit Without Saving 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) 1984-2006 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 Abandon all Data F11: Save CMOS to BIOS F12: Load CMOS from BIOS Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Quit Without Saving (Y/N)? NExit Setup Save & Exit Without Saving Type "Y" will quit the Setup Utility without saving to RTC CMOS. Type "N" will return to Setup Utility. - 49 - BIOS Setup English GA-M55S-S3 (rev. 2.0) Motherboard - 50 - 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 Run.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. Please pick the item that you want and press "install" followed the item; or you can press "Xpress Install" to install all items defaulted. Some device drivers will restart your system automatically. After restarting your system the "Xpress Install" will continue to install other drivers. System will reboot automatically after install the drivers, afterward you can install others application. For USB2.0 driver support under Windows XP operating system, please use Windows Service Pack.

After install Windows Service Pack, it will show a question mark "?" in "Universal Serial Bus controller" under "Device Manager". Please remove the question mark and restart the system (System will auto-detect the right USB2.0 driver). - 51 - Drivers Installation English 3-2 Software Applications This page displays all the tools that Gigabyte developed and some free software, you can choose anyone you want and press "install" to install them. 3-3 Driver CD Information This page lists the contents of software and drivers in this CD-title.

GA-M55S-S3 (rev. 2.0) Motherboard - 52 - 3-4 Hardware Information English This page lists all device you have for this motherboard. 3-5 Contact Us Please see the last page for details. - 53 - Drivers Installation English GA-M55S-S3 (rev.

2.0) Motherboard - 54 - Chapter 4 Appendix 4-1 Unique Software Utilities (Not all model support these Unique Software Utilities, please check your MB features.) English 4-1-1 EasyTune 5 Introduction EasyTune 5 presents the most convenient Windows based system performance enhancement and manageability utility. Featuring several powerful yet easy to use tools such as 1) Overclocking for enhancing system performance, 2) C.I.A. and M.I.B. for special enhancement for CPU and Memory, 3) Smart-Fan control for managing fan speed control of both CPU cooling fan and North-Bridge Chipset cooling fan, 4) PC health for monitoring system status.

(Note) User Interface Overview 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.  
11. Button / Display Overclocking C.I.A./C.  
I.A.2 and M.I.B.

Smart-Fan PC Health GO "Easy Mode" & "Advance Mode" Display screen Function display LEDs GIGABYTE Logo Help button Exit or Minimize button Description Enters the Overclocking setting page Enters the C.I.A./2 and M.I.B. setting page Enters the Smart-Fan setting page Enters the PC Health setting page Confirmation and Execution button Toggles between Easy and Advance Mode Display panel of CPU frequency Shows the current functions status Log on to GIGABYTE website Display EasyTuneTM 5 Help file Quit or Minimize EasyTune TM 5 software (Note) EasyTune 5 functions may vary depending on different motherboards. - 55 Appendix English 4-1-2 Xpress Recovery2 Introduction Xpress Recovery2 is designed to provide quick backup and restoration of hard disk data. Supporting Microsoft operating systems including Windows XP/2000/NT/98/Me and DOS, and file systems including FAT16, FAT32, and NTFS, Xpress Recovery2 is able to back up data on hard disks on PATA and SATA IDE controllers. After Xpress Recovery2 is executed from CD-ROM for the first time, it will stay permanent in your hard disk.

If you wish to run Xpress Recovery2 later, you can simply press F9 during system bootup to enter Xpress Recovery2 without the CD-ROM. System requirements: 1. Intel x86 platforms 2. At least 64M bytes of system memory 3.



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VESA-supported VGA cards How to use the Xpress Recovery2 Initial access by booting from CD-ROM and subsequent access by pressing the F9 key: Steps: After entering BIOS Setup, go to Advanced BIOS Feature and set to boot from CD-ROM. Save the settings and exit the BIOS Setup. Insert the provided driver CD into your CD-ROM drive. Upon system restart, the message which says "Boot from CD/DVD:" will appear in the bottom left corner of the screen. Press any key to enter Xpress Recovery2. After the steps above are completed, subsequent access to Xpress Recovery2 can be made by simply pressing the <F9> key during system power-on.

.. Boot from CD/DVD: Press any key to startup XpressRecovery2...

.. Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2006, Award Software, Inc. M55S-S3 FAa .

... <DEL>:BIOS Setup/Q-Flash, <F9>: XpressRecovery2, <F12>: Boot Menu 09/28/2006-NV-MCP55S-6A61JG07C-00 Boot from CD/DVD: <F9>: Xpress Recovery2 1. 2. 3. If you have already entered Xpress Recovery2 by booting from the CD-ROM, you can enter Xpress Recovery2 by pressing the <F9> key in the future. 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-M55S-S3 (rev.

2.0) Motherboard - 56 - 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: Exit the main screen and restart the system. Limitations: 1. 2. 3. 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 Precautions: 1. 2. 3. 4. 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. - 57 - Appendix English 4-1-3 Flash BIOS Method Introduction Method 1 : Q-Flash™ Utility Q-Flash™ is a BIOS flash utility embedded in Flash ROM. With this utility, users only have to stay in the BIOS menu when they want to update BIOS. Q-Flash™ allows users to flash BIOS without any utility in DOS or Windows. Using Q-Flash™ indicates no more fooling around with any complicated instructions and operating system since it is in the BIOS menu.

Please note that because updating BIOS has potential risk, please do it with caution!! We are sorry that Gigabyte Technology Co., Ltd is not responsible for damages of system because of incorrect manipulation of updating BIOS to avoid any claims from end-users. Before You Begin: Before you start updating BIOS with the Q-Flash™ utility, please follow the steps below first. 1. 2.

3. Download the latest BIOS for your motherboard from Gigabyte's website. Extract the BIOS file downloaded and save the BIOS file (the one with model name.Fxx. For example, 8KNXPU.Fba) to a floppy disk. Reboot your PC and press Del to enter BIOS menu. The BIOS upgrading guides below are separated into two parts. If your motherboard has dual-BIOS, please refer to Part One. If your motherboard has single-BIOS, please refer to Part Two.

Part One: Updating BIOS with Q-Flash™ Utility on Dual BIOS Motherboards. Some of Gigabyte motherboards are equipped with dual BIOS. In the BIOS menu of the motherboards supporting Q-Flash and Dual BIOS, the Q-Flash utility and Dual BIOS utility are combined in the same screen. This section only deals with how to use Q-Flash utility. In the following sections, we take GA-8KNXP Ultra as the example to guide you how to flash BIOS from an older version to the latest version. For example, from Fa3 to Fba. Award Modular BIOS v6.00PG, An Energy Star Ally Copyright (C) 1984-2003, Award Software, Inc. The BIOS file is Fa3 before updating Intel i875P AGPset BIOS for 8KNXP Ultra Fa3 Check System Health OK , VCore = 1.5250 Main Processor : Intel Pentium(R) 4 1.

6GHz (133x12) <CPUID : 0F27 Patch ID : 0027> Memory Testing : 131072K OK Memory Frequency 266 MHz in Single Channel Primary Master : FUJITSU MPE3170AT ED-03-08 Primary Slave : None Secondary Master : CREATIVEDVD-RM DVD1242E BC101 Secondary Slave : None Press DEL to enter SETUP / Dual BIOS / Q-Flash / F9 For Xpress Recovery 08/07/2003-i875P-6A79BG03C-00 GA-M55S-S3 (rev. 2.0) Motherboard - 58 - Entering the Q-Flash™ utility: Step1: To use Q-Flash utility, you must press Del in the boot screen to enter BIOS menu. CMOS Setup Utility-Copyright (C) 1984-2004 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status MB Intelligent Tweaker(M.I.

T.) ESC: Quit F8: Dual BIOS/Q-Flash Select Language Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving F3: Change Language F10: Save & Exit Setup Time, Date, Hard Disk Type... English Step 2: Press F8 button on your keyboard and then Y button to enter the Dual BIOS/Q-Flash utility.

Exploring the Q-Flash™ / Dual BIOS utility screen The Q-Flash / Dual BIOS utility screen consists of the following key components. Dual BIOS Utility Boot From.....

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

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

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

..SST 49LF003A Backup ROM Type/Size.....

.....  
.....

.....SST 49LF003A Dual BIOS utility bar 512K 512K Task menu for Dual BIOS utility Task menu for Q-FlashTM utility Wide Range Protection Disable Boot From Main Bios Auto Recovery Enable Halt On Error Disable Copy Main ROM Data to Backup Load Default Settings Save Settings to CMOS Q-Flash Utility Load Main BIOS from Floppy Load Backup BIOS from Floppy Save Main BIOS to Floppy Save Backup BIOS to Floppy Enter : Run :Move ESC:Reset F10:Power Off Q-FlashTM utility title bar Action bar Task menu for Dual BIOS utility: Contains the names of eight tasks and two item showing information about the BIOS ROM type.



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