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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-F2A55M-DS2. You'll find the answers to all your questions on the GIGABYTE GA-F2A55M-DS2 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-F2A55M-DS2**  
**User guide GIGABYTE GA-F2A55M-DS2**  
**Operating instructions GIGABYTE GA-F2A55M-DS2**  
**Instructions for use GIGABYTE GA-F2A55M-DS2**  
**Instruction manual GIGABYTE GA-F2A55M-DS2**



## GA-F2A55M-DS2

User's Manual  
Rev. 1001  
12ME-F255MS2-1001R



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**Manual abstract:**

©2012 Aug. 20, 2012 Copyright ©2012 GIGA-BYTE TECHNOLOGY CO., LTD. All rights reserved. In order to assist in the use of this product, carefully read the User's Manual. For product-related information, check on our website at: <http://www.gigabyte.com> Identifying Your Motherboard Revision The revision number on your motherboard looks like this: "REV: X.X." For example, "REV: 1.0" means the revision of the motherboard is 1.0. Check your motherboard revision before updating motherboard BIOS, drivers, or when looking for technical information. Example: Table of Contents GA-F2A55M-DS2 Motherboard Layout..

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displayed will be less than the size of the physical memory installed. \* □ maximum 64 GB of system memory can be supported using 16 GB (or above) The memory modules. GIGABYTE will update the memory support list on the official website when the memory modules are available on the market. Chipset Memory Onboard Graphics □□ Dual channel memory architecture □□ Support for DDR3 1866/1600/1333/1066 MHz memory modules □□ □ support for AMD Memory Profile (AMP)/Extreme Memory Profile (XMP) memory modules S □(Go to GIGABYTE's website for the latest supported memory speeds and memory modules.) □□ APU: - - \* □ use the onboard graphics ports, you must install an AMD APU with integrated To graphics.

\* □ Support for 2560x1600 resolution requires both a monitor and cable that support Dual Link DVI. \* The DVI-D port does not support D-Sub connection by adapter. 1 x D-Sub port 1 x DVI-D port, supporting a maximum resolution of 2560x1600 Audio □□ Realtek ALC887 codec □□ High Definition Audio □□ 2/4/5.1/7.1-channel □□ Support for S/PDIF Out LAN \* □ configure 7.

1-channel audio, you have to use an HD front panel audio module To and enable the multi-channel audio feature through the audio driver. □□ Realtek GbE LAN chip (10/100/1000 Mbit) Expansion Slots □□ 1 x PCI Express x16 slot, running at x16 □□ □ x PCI Express x1 slot 1 (All PCI Express slots conform to PCI Express 2.0 standard.) □□ 1 x PCI slot Multi-Graphics □□ Support for AMD Dual Graphics technology \* □ nly A series APUs support AMD Dual Graphics. O Technology Storage Interface □□ Chipset: - 4 x SATA 3Gb/s connectors supporting up to 4 SATA 3Gb/s devices - Support for RAID 0, RAID 1, RAID 10, and JBOD USB □□ Chipset: - □Up to 8 USB 2.



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0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers) -8- Internal Connectors Back Panel Connectors 1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 4 x SATA 3Gb/s connectors 1 x APU fan header 1 x system fan header 1 x front panel audio header 1 x S/PDIF Out header 2 x USB 2.0/1.1 headers 1 x serial port header 1 x Clear CMOS jumper 1 x PS/2 keyboard port 1 x PS/2 mouse port 1 x D-Sub port 1 x DVI-D port 4 x USB 2.0/1.1 ports 1 x RJ-45 port 3 x audio jacks (Line In/Line Out/Microphone) System voltage detection APU/System temperature detection APU/System fan speed detection APU overheating warning APU/System fan fail warning APU/System fan speed control I/O Controller Hardware Monitor 1 x iTE I/O Controller Chip \* Whether the APU/system fan speed control function is supported will depend on the APU/system cooler you install. BIOS Unique Features 2 x 32 Mbit flash Use of licensed AMI EFI BIOS Support for DualBIOS™ PnP 1.0a, DMI 2.0, SM BIOS 2.6, ACPI 2.

0a Support for @BIOS Support for Q-Flash Support for Xpress Install Support for EasyTune Support for Smart Recovery 2 Support for Auto Green Support for ON/OFF Charge Support for 3TB+ Unlock Support for Q-Share \* Available functions in EasyTune may differ by motherboard model. -9- Bundled Software Operating System Form Factor 1 x Norton Internet Security (OEM version) 1 x Support for Microsoft® Windows 8/7/Vista/XP 1 x Micro ATX Form Factor; 22.5cm x 17.4cm \* GIGABYTE reserves the right to make any changes to the product specifications and product-related information without prior notice. \* Please visit GIGABYTE's website to check the supported operating system(s) for the software listed in the "Unique Features" P and "Bundled Software" columns. 1-3 Installing the APU Read the following guidelines before you begin to install the APU: • Make sure that the motherboard supports the APU. (Go to GIGABYTE's website for the latest APU support list.) • Always turn off the computer and unplug the power cord from the power outlet before installing the APU to prevent hardware damage. • Locate the pin one of the APU. The APU cannot be inserted if oriented incorrectly. • Apply an even and thin layer of thermal grease on the surface of the APU. • Do not turn on the computer if the APU cooler is not installed, otherwise overheating and damage of the APU may occur. • Set the APU host frequency in accordance with the APU specifications. It is not recommended that the system bus frequency be set beyond hardware specifications since it does not meet the standard requirements for the peripherals. If you wish to set the frequency beyond the standard specifications, please do so according to your hardware specifications including that of a PS/2 keyboard. The D-Sub port supports a 15-pin D-Sub connector. Connect a monitor that supports D-Sub connection to this port. DVI-D Port (Note) The DVI-D port conforms to the DVI-D specification and supports a maximum resolution of 2560x1600. Connect a monitor that supports DVI-D connection to this port. Please note that the actual resolutions supported are dependent on the monitor being used and support for 2560x1600 resolution requires both a monitor and cable that support Dual Link DVI.

USB 2.0/1.1 Port RJ-45 LAN Port Tech requires the use of a APU fan with fan speed control design. For optimum heat dissipation, it is recommended that a system fan be installed inside the chassis. 1 CPU\_FAN 1 SYS\_FAN Pin No. Definition 1 GND 2 +12V 3 Sense DEBUG 4 PORT Speed Control DEBUG PORT • Be sure to connect fan cables to the fan headers to prevent your APU and system from overheating. Overheating may result in damage to the APU or the system may hang. • These fan headers are not configuration jumper blocks. Do not place a jumper cap on the headers. 5) SATA2 0/1/2/3 (SATA 3Gb/s Connectors) The SATA connectors conform to SATA 3Gb/s standard and are compatible with SATA 1.

5Gb/s standard. Each SATA connector supports a single SATA device. The AMD A55 Chipset DEBUG RAID 0, RAID 1, supports DEBUG PORT RAID 10, and JBOD. Refer to Chapter 4, "Configuring SATA Hard Drive(s)," for PORT instructions on configuring a RAID array. 1 SATA2 2 3 7 Pin No. 1 2 3 4 5 6 7 Definition GND TXP TXN GND RXN RXP GND SATA2 0 1 1 7 • A RAID 0 or RAID 1 configuration requires at least two hard drives. If more than two hard drives are to be used, the total number of hard drives must be an even number. • A RAID 10 configuration requires four hard drives. - 16 - 6) F\_PANEL (Front Panel Header) Connect the power switch, reset switch, speaker, and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.

Message/Power/ Sleep LED Power Switch Speaker MSG+ MSGPW+ PW- SPEAK+ F\_AUDIO(H) F\_PANEL(NH) 2 1 HD+ HDRESRES+ CICI+ PWR+ PWR- SPEAK20 19 F\_PANEL (H61M-D2) Hard Drive Reset Activity LED Switch Power LED Chassis Intrusion Header DB\_PORT • MSG/PWR (Message/Power/Sleep LED): Connects System Status LED Switcher (X58A-OC) to the power status indicator on the chassis front panel. The LED BIOS is on when the system is operating. The LED is off when the system is in S3/ S0 On S4 sleep state or powered off (S5). S3/S4/S5 Off 1 1 • PW (Power Switch): Connects to the power switch on the chassis front panel. You may configure the way to turn off your ACPI\_CPT system using the power switch (refer to Chapter 2, "BIOS Setup," "Power Management," for more (GA-IVB) Voltage measurement module(X58A-OC) information).

PWM Switch (X58A-OC) • Speaker (Speaker): Connects to the speaker on the chassis front panel. The system reports system startup status by issuing DIP a beep code. One single short beep will be heard if no problem is detected at system startup. SMB\_CPT • HD (Hard Drive Activity LED): (GA-IVB) Connects to the PCIe power connector (SATA)(X58A-OC) hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

• RES (Reset Switch): Connects to the reset switch on the chassis front panel. Press the reset switch to restart the computer CLR\_CMOS if the computer freezes and fails to perform a normal restart. CI • CI (Chassis Intrusion Header): DIS\_ME GPI5\_CPT Connects to the chassis intrusion switch/sensor on the chassis that can detect if the chassis cover has (GA-IVB) been removed. This function requires a chassis with a chassis intrusion switch/sensor. DIP 1 2 3 1 2 3 1 2 3 M\_SATA The front panel design may differ by chassis.



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A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly. - 17 - DIP 1 1 1 2 3 DIP XDP\_CPU XDP\_PCH (GA-IVB) 7) F\_AUDIO (Front Panel Audio Header) The front panel audio header supports Intel High Definition audio (HD) and AC'97 audio. You may connect your chassis front panel audio module to this header. Make sure the wire assignments of the module connector match the pin assignments of the motherboard header.

Incorrect connection between the module connector and the motherboard header will make the device unable to work or even damage it. For HD Front Panel Audio: Pin No. Definition 1 MIC2\_L 2 GND 3 MIC2\_R 4 -ACZ\_DET 5 LINE2\_R 6 GND 7 FAUDIO\_JD 8 No Pin 9 LINE2\_L 10 GND For AC'97 Front Panel Audio: Pin No. Definition 1 MIC 2 GND 3 MIC Power 4 NC 5 Line Out (R) 6 NC 7 NC 8 No Pin 9 Line Out (L) 10 NC 9 10 1 2 ••The front panel audio header supports HD audio by default. ••Audio signals will be present on both of the front and back panel audio connections simultaneously. ••Some chassis provide a front panel audio module that has separated connectors on each wire instead of a single plug. For information about connecting the front panel audio module that has different wire assignments, please contact the chassis manufacturer. 8) SPDIF\_O (SPDIF Out Header) This header supports digital S/PDIF Out and connects a S/PDIF digital audio cable (provided by expansion cards) for digital audio output from your motherboard to certain expansion cards like graphics cards and sound cards. For example, some graphics cards may require you to use a S/PDIF digital audio cable for digital audio output from your motherboard to your graphics card if you wish to connect an HDMI display to the graphics card and have digital audio output from the HDMI display at the same time. For information about connecting the S/PDIF digital audio cable, carefully read the manual for your expansion card.

Pin No. Definition 1 SPDIFO 2 GND 1 - 18 - 9) F\_USB1/F\_USB2 (USB 2.0/1.1 Headers) The headers conform to USB 2.0/1.1 specification. Each USB header can provide two USB ports via an optional USB bracket. For purchasing the optional USB bracket, please contact the local dealer. Pin No. 1 2 3 4 5 6 7 8 9 10 Definition Power (5V) Power (5V) USB DXUSB DYUSB DX+ USB DY+ GND GND No Pin NC 9 10 1 2 ••Do not plug the IEEE 1394 bracket (2x5-pin) cable into the USB header.

••Prior to installing the USB bracket, be sure to turn off your computer and unplug the power cord from the power outlet to prevent damage to the USB bracket. 10) COM (Serial Port Header) The COM header can provide one serial port via an optional COM port cable. For purchasing the optional COM port cable, please contact the local dealer. Pin No. 1 2 3 4 5 6 7 8 9 10 Definition NDCDNSIN NSOUT NDTRGND NDSRNRTSNCTS NRINo Pin 9 10 1 2 - 19 - 11) CLR\_CMOS (Clear CMOS Jumper) Use this jumper to clear the CMOS values (e.g. date information and BIOS configurations) and reset the CMOS values to factory defaults. To clear the CMOS values, use a metal object like a screwdriver to touch the two pins for a few seconds. Open: Normal Short: Clear CMOS Values ••Always turn off your computer and unplug the power cord from the power outlet before clearing the CMOS values. ••After system restart, go to BIOS Setup to load factory defaults (select Load Optimized Defaults) or manually configure the BIOS settings (refer to Chapter 2, "BIOS Setup," for BIOS configurations).

12) BAT (Battery) The battery provides power to keep the values (such as BIOS configurations, date, and time information) in the CMOS when the computer is turned off. Replace the battery when the battery voltage drops to a low level, or the CMOS values may not be accurate or may be lost. You may clear the CMOS values by removing the battery: 1. Turn off your computer and unplug the power cord. 2. Gently remove the battery from the battery holder and wait for one minute. (Or use a metal object like a screwdriver to touch the positive and negative terminals of the battery holder, making them short for 5 seconds.) 3. Replace the battery. 4.

Plug in the power cord and restart your computer. ••Always turn off your computer and unplug the power cord before replacing the battery. ••Replace the battery with an equivalent one. Danger of explosion if the battery is replaced with an incorrect model. ••Contact the place of purchase or local dealer if you are not able to replace the battery by yourself or uncertain about the battery model.

••When installing the battery, note the orientation of the positive side (+) and the negative side (-) of the battery (the positive side should face up). ••Used batteries must be handled in accordance with local environmental regulations. - 20 - Chapter 2 BIOS Setup BIOS (Basic Input and Output System) records hardware parameters of the system in the CMOS on the motherboard. Its major functions include conducting the Power-On Self-Test (POST) during system startup, saving system parameters and loading operating system, etc. BIOS includes a BIOS Setup program that allows the user to modify basic system configuration settings or to activate certain system features.

When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS to keep the configuration values in the CMOS. To access the BIOS Setup program, press the <Delete> key during the POST when the power is turned on. To upgrade the BIOS, use either the GIGABYTE Q-Flash or @BIOS utility. ••Q-Flash allows the user to quickly and easily upgrade or back up BIOS without entering the operating system. ••@BIOS is a Windows-based utility that searches and downloads the latest version of BIOS from the Internet and updates the BIOS. For instructions on using the Q-Flash and @BIOS utilities, refer to Chapter 4, "BIOS Update Utilities." ••Because BIOS flashing is potentially risky, if you do not encounter problems using the current version of BIOS, it is recommended that you not flash the BIOS. To flash the BIOS, do it with caution. Inadequate BIOS flashing may result in system malfunction. ••It is recommended that you not alter the default settings (unless you need to) to prevent system instability or other unexpected results.

Inadequately altering the settings may result in system's failure to boot. If this occurs, try to clear the CMOS values and reset the board to default values. (Refer to the "Load Optimized Defaults" section in this chapter or introductions of the battery or the clear CMOS jumper in Chapter 1 for how to clear the CMOS values.) - 21 - 2-1 Startup Screen The following startup Logo screen will appear when the computer boots.



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Options are: 0.75 PWM value /oC ~ 2.50 PWM value /oC.

&& Slope PWM - 31 - 2-4 System This section provides information on your CPU, memory, motherboard model, and BIOS version. You can also select the default language used by the BIOS and manually set the system time. && System Language Selects the default language used by the BIOS. && System Date Sets the system date. The date format is week (read-only), month, date, and year. Use <Enter> to switch between the Month, Date, and Year fields and use the <Page Up> or <Page Down> key to set the desired value. Sets the system time. The time format is hour, minute, and second. For example, 1 p.m.

is 13:0:0. Use <Enter> to switch between the Hour, Minute, and Second fields and use the <Page Up> or <Page Down> key to set the desired value. @@@@ (Default: Enabled) Specifies whether a password is required every time the system boots, or only when you enter BIOS Setup. After configuring this item, set the password(s) under the Administrator Password/User Password item.  Setup  password is only required for entering the BIOS Setup program. (Default)  A  System  A password is required for booting the system and for entering the BIOS Setup program.  && Security Option - 33 - && Full Screen LOGO Show Allows you to determine whether to display the GIGABYTE Logo at system startup. Disabled skips the GIGABYTE Logo when the system starts up. (Default: Enabled) && CSM Support Enables or disables UEFI CSM (Compatibility Support Module) to support a legacy PC boot process.  Always  Enables UEFI CSM. (Default)  Never  Disables UEFI CSM and supports UEFI BIOS boot process only. Allows you to select which type of operating system to boot.  UEFI and Legacy  Allows booting from operating systems that support legacy option ROM or UEFI option ROM. (Default)  Legacy Only  Allows booting from operating systems that only support legacy option ROM.  UEFI Only  Allows booting from operating systems that only support UEFI option ROM. This item is configurable only when CSM Support is set to Always. Allows you to select whether to enable the UEFI or legacy option ROM for the LAN controller.  Disabled  Disables option ROM. (Default)  Legacy Only  Enables legacy option ROM only.  UEFI Only  Enables UEFI option ROM only.  Legacy First  Enables legacy option ROM first.  UEFI First  Enables UEFI option ROM first. This item is configurable only when CSM Support is set to Always. Allows you to select whether to enable the UEFI or legacy option ROM for the storage device controller.  Disabled  Disables option ROM.  Legacy Only  Enables legacy option ROM only. (Default)  UEFI Only  Enables UEFI option ROM only.  Legacy First  Enables legacy option ROM first.  UEFI First  Enables UEFI option ROM first. This item is configurable only when CSM Support is set to Always.

Allows you to select whether to enable the UEFI or legacy option ROM for the graphics controller.  Disabled  Disables option ROM.  Legacy Only  Enables legacy option ROM only. (Default)  UEFI Only  Enables UEFI option ROM only.  Legacy First  Enables legacy option ROM first.  UEFI First  Enables UEFI option ROM first. This item is configurable only when CSM Support is set to Always. Allows you to select whether to enable the UEFI or Legacy option ROM for the PCI device controller other than the LAN, storage device, and graphics controllers.  Legacy OpROM  Enables legacy Option ROM only.  UEFI OpROM  Enables UEFI Option ROM only.

(Default) Disables or enables booting from the network to install a GPT format OS, such as installing the OS from the Windows Deployment Services server. (Default: Disable Link) Enables or disables IPv4 PXE Support. This item is configurable only when Network stack is enabled. - 34 - && Boot Mode Selection && PXE Boot Option Control && Storage Boot Option Control && Display Boot Option Control && Other PCI Device ROM Priority && Network stack && Ipv4 PXE Support && Ipv6 PXE Support Enables or disables IPv6 PXE Support. This item is configurable only when Network stack is enabled.

&& Administrator Password Allows you to configure an administrator password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup.

Differing from the user password, the administrator password allows you to make changes to all BIOS settings. Allows you to configure a user password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. However, the user password only allows you to make changes to certain BIOS settings but not all. && User Password To cancel the password, press <Enter> on the password item and when requested for the password, enter the correct one first. When prompted for a new password, press <Enter> without entering any password. Press <Enter> again when prompted to confirm.

2-6 Peripherals && OnChip SATA Channel Enables or disables the integrated SATA controllers. (Default: Enabled) && OnChip SATA Type Enables or disables RAID for the SATA controllers integrated in the AMD Chipset or configures the SATA controllers to AHCI mode.  Native IDE   Configures the SATA controller to IDE mode. (Default)  RAID  Enables RAID for the SATA controller.  AHCI   Configures the SATA controllers to AHCI mode.

Advanced Host Controller Interface (AHCI) is an interface specification that allows the storage driver to enable advanced Serial ATA features such as Native Command Queuing and hot plug. - 35 - && Enable all USB device Enables or disables the integrated USB 2.0/1.1 controller. (Default: Enabled) && HD Audio Azalia Device Enables or disables the onboard audio function.

(Default: Enabled) If you wish to install a 3rd party add-in audio card instead of using the onboard audio, set this item to Disabled. Enables or disables AMD IOMMU support. (Default: Enabled) && IOMMU && Onboard LAN Controller && Legacy USB Support Enables or disables the onboard LAN function.

(Default: Enabled) If you wish to install a 3rd party add-in network card instead of using the onboard LAN, set this item to Disabled. Allows USB keyboard/mouse to be used in MS-DOS.

(Default: Enabled) && EHCI Hand-off Determines whether to enable EHCI Hand-off feature for an operating system without EHCI Hand-off support.



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(Default: Disabled) Enables or disables emulation of I/O ports 64h and 60h. This should be enabled for full legacy support for USB keyboards/mice in MS-DOS or in operating system that does not natively support USB devices. (Default: Disabled) Displays a list of connected USB mass storage devices. This item appears only when a USB storage device is installed.

&& Port 60/64 Emulation && USB Storage Devices ``SATA Configuration - 36 - && PORT0 Hot Plug~PORT3 Hot Plug Enables or disable the hot plug capability for each SATA port. (Default: Disabled) Enables or disables each SATA port. (Default: Enabled) && SATA Power on PORT0~SATA Power on PORT3 ``GFX Configuration && Primary Video Device Specifies the first initiation of the monitor display from the installed PCI Express graphics card or the onboard graphics.  IGD Video  Sets the onboard graphics as the first display.  NB PCIe Slot Video  Sets the PCI Express graphics card on the PCI Express slot controlled by the North Bridge as the first display. (Default)  SB PCIe Slot Video  Sets the PCI Express graphics card on the PCI Express slot controlled by the South Bridge as the first display. Enables or disables the onboard graphics function.  Auto  The BIOS will automatically enable or disable the onboard graphics depending on  the graphics card being installed. (Default)  Disabled  Disables the onboard graphics.  Force  Always activates the onboard graphics, whether or not a PCI Express card is installed.

This item is configurable only when Integrated Graphics is set to Force. Frame buffer size is the total amount of system memory allocated solely for the onboard graphics controller. MS-DOS, for example, will use only this memory for display. Options are: Auto (default), 256M, 512M, 1G, 2G. This section provides information on the super I/O chip and allows you to configure the serial port. Enables or disables the onboard serial port. (Default: Enabled) - 37 -

&& Integrated Graphics && UMA Frame Buffer Size ``Super IO Configuration && Serial Port A 2-7 Power Management && Resume by Alarm Determines whether to power on the system at a desired time. (Default: Disabled) If enabled, set the date and time as following:  Wake up day: Turn on the system at a specific time on each day or on a specific day in a month.  Wake up hour/minute/second: Set the time at which the system will be powered on automatically.  Note: When using this function, avoid inadequate shutdown from the operating system or removal of the AC power, or the settings may not be effective.

Enables or disables High Precision Event Timer (HPET) for Windows 7/Vista operating system. (Default: Enabled) Determines whether to let the system consume least power in S5 (shutdown) state. (Default: Disabled) Note: When this item is set to Enabled, the following functions will become unavailable: PME event wake up, power on by mouse, power on by keyboard, and wake on LAN. && HPET Timer (Note) && ErP && Soft-Off by PWR-BTTN Configures the way to turn off the computer in MS-DOS mode using the power button.  Instant-Off  Press the power button and then the system will be turned off instantly.

(Default)  Delay 4 Sec  Press and hold the power button for 4 seconds to turn off the system. If the power button is pressed for less than 4 seconds, the system will enter suspend mode. Determines the state of the system after the return of power from an AC power loss.  Memory  The system returns to its last known awake state upon the return of the AC power.  Always On  The system is turned on upon the return of the AC power.

Always Off  The system stays off upon the return of the AC power. (Default) && AC BACK (Note) Supported on Windows 7/Vista operating system only. - 38 - && Power On By Keyboard Allows the system to be turned on by a PS/2 keyboard wake-up event. Note: To use this function, you need an ATX power supply providing at least 1A on the +5VSB lead.  Disabled  Disables this function. (Default)  Password  Set a password with 1~5 characters to turn on the system.  Keyboard 98 Press POWER button on the Windows 98 keyboard to turn on the system.  Any Key  Press any key to turn on the system. Set the password when Power On by Keyboard is set to Password. Press <Enter> on this item and set a password with up to 5 characters and then press <Enter> to accept.

To turn on the system, enter the password and press <Enter>. Note: To cancel the password, press <Enter> on this item. When prompted for the password, press <Enter> again without entering the password to clear the password settings. Allows the system to be turned on by a PS/2 mouse wake-up event. Note: To use this function, you need an ATX power supply providing at least 1A on the +5VSB lead.  Disabled  Disables this function. (Default)  Move  Move the mouse to turn on the system.  Double Click Double click on left button on the mouse to turn on the system.  && Power On Password && Power On By Mouse - 39 - 2-8 Save & Exit && Save & Exit Setup Press <Enter> on this item and select Yes. This saves the changes to the CMOS and exits the BIOS Setup program.

Select No or press <Esc> to return to the BIOS Setup Main Menu. Press <Enter> on this item and select Yes. This exits the BIOS Setup without saving the changes made in BIOS Setup to the CMOS. Select No or press <Esc> to return to the BIOS Setup Main Menu. && Exit Without Saving && Load Optimized Defaults Press <Enter> on this item and select Yes to load the optimal BIOS default settings.

The BIOS defaults settings help the system to operate in optimum state. Always load the Optimized defaults after updating the BIOS or after clearing the CMOS values. Allows you to select a device to boot immediately. Press <Enter> on the device you select and select Yes to confirm. Your system will restart automatically and boot from that device.

&& Boot Override && Save Profiles This function allows you to save the current BIOS settings to a profile. You can create up to 8 profiles and save as Setup Profile 1~ Setup Profile 8. Press <Enter> to complete. Or you can select Select File in HDD/USB/FDD to save the profile to your storage device. If your system becomes unstable and you have loaded the BIOS default settings, you can use this function to load the BIOS settings from a profile created before, without the hassles of reconfiguring the BIOS settings. First select the profile you wish to load and then press <Enter> to complete. You can select Select File in HDD/USB/FDD to input the profile previously created from your storage device or load the profile automatically created by the BIOS, such as reverting the BIOS settings to the last settings that worked properly (last known good record).



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&& Load Profiles - 40 - Chapter 3 Drivers Installation •• Before installing the drivers, first install the operating system. •• After installing the operating system, insert the motherboard driver disk into your optical drive. The driver Autorun screen is automatically displayed which looks like that shown in the screen shot below.

(If the driver Autorun screen does not appear automatically, go to My Computer, double-click the optical drive and execute the Run.exe program.) After inserting the driver disk, "Xpress Install" will automatically scan your system and then list all the drivers that are recommended to install. You can click the Install All button and "Xpress Install" will install all the recommended drivers. Or click Install Single Items to manually select the drivers you wish to install. Chapter 4 Appendix Configuring SATA Hard Drive(s) Before you begin •• At least two SATA hard drives (to ensure optimal performance, it is recommended that you use two hard drives with identical model and capacity). If you do not want to create RAID, you may prepare only one hard drive. •• Windows 7/Vista/XP setup disk. •• Motherboard driver disk. •• A USB floppy disk drive (needed during Windows XP installation) •• An empty formatted floppy disk (needed during Windows XP installation) Configuring the Onboard SATA Controller A.

Installing SATA hard drive(s) in your computer Attach one end of the SATA signal cable to the rear of the SATA hard drive and the other end to available SATA port on the motherboard. Then connect the power connector from your power supply to the hard drive. - 41 - B. Configuring SATA controller mode in BIOS Setup Make sure to configure the SATA controller mode correctly in system BIOS Setup. For the BIOS Setup menus, refer to Chapter 2, "BIOS Setup," "Integrated Peripherals.

" Steps: 1. Turn on your computer and press <Delete> to enter BIOS Setup during the POST (Power-On Self-Test). Ensure OnChip SATA Channel is enabled under Peripherals. To enable RAID for the SATA2 0/1/2/3 connectors, set OnChip SATA Type to RAID. 2.

Save changes and exit BIOS Setup. The BIOS Setup menus described in this section may differ from the exact settings for your motherboard. The actual BIOS Setup menu options you will see shall depend on the motherboard you have and the BIOS version. Enter the RAID BIOS setup utility to configure a RAID array. After the POST memory test begins and before the operating system boot begins, look for a message which says "Press <Ctrl-F> to enter RAID Option ROM Utility". Press <Ctrl> + <F> to enter the RAID BIOS setup utility. To create a new array, press <2> to enter the LD View/LD Define Menu window.

To create an array, press <Ctrl+C> to access the LD Define Menu. In the LD Define Menu, use the up or down arrow key to move to an item for further configuration. In the following procedure, we'll create RAID 0 as an example.

Steps: 1. Under the RAID Mode section, press the <SPACE> key to select RAID 0. 2. Set the Stripe Block size. 64 KB is the default. @@@@This action adds the drive to the disk array. The Drv section will show the number of disks assigned. 5. Press <Ctrl>+<Y> keys to save the information. The message in Figure 1 will appear.

Press <Ctrl>+<Y> to input the array name. @@@@Configuring RAID set in RAID BIOS Figure 1 6. When the next message appears, press <Ctrl>+<Y> to clear the MBR or press other keys to ignore this option. Fast Initialization Option has been selected It will erase the MBR data of the disk. <Press Ctrl-Y Key if you are sure to erase it> <Press any other key to ignore this option> Figure 2 7.

Then, the message in Figure 3 will appear. Press <Ctrl>+<Y> to set the capacity of the RAID array or press other keys to set the array to its maximum capacity. Press Ctrl-Y to Modify Array Capacity or press any other key to use maximum capacity...

Figure 3 - 42 - 8. After the creation is complete, the screen will return to LD View Menu where you will see the newlycreated array. 9. Press <Esc> to return to Main Menu and press <Esc> again if you want to exit the RAID BIOS utility. Making a SATA RAID/AHCI Driver Diskette Before installing Windows XP, connect a USB floppy disk drive to your computer first because you need to install the SATA RAID/AHCI driver from a floppy disk that contains the driver during the OS installation. @@@@When completed, proceed with the Windows XP installation. B. @@Select Load Driver. Insert the motherboard driver disk and then browse to the location of the driver. Then follow the on-screen instructions to load the driver.

The locations of the drivers for Windows 7 are as follows: RAID driver for Windows 32-bit: \BootDrv\Hw7\RAID\x86 RAID driver for Windows 64-bit: \BootDrv\Hw7\RAID\x64 AHCI driver for Windows 32-bit: \BootDrv\Hw7\AHCI\W7 AHCI driver for Windows 64-bit: \BootDrv\Hw7\AHCI\W764A After loading the driver, continue the OS installation. - 43 - Regulatory Statements Regulatory Notices This document must not be copied without our written permission, and the contents there of must not be imparted to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted. We believe that the information contained herein was accurate in all respects at the time of printing. GIGABYTE cannot, however, assume any responsibility for errors or omissions in this text. Also note that the information in this document is subject to change without notice and should not be construed as a commitment by GIGABYTE. Our Commitment to Preserving the Environment In addition to high-efficiency performance, all GIGABYTE motherboards fulfill European Union regulations for RoHS (Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment) and WEEE (Waste Electrical and Electronic Equipment) environmental directives, as well as most major worldwide safety requirements. To prevent releases of harmful substances into the environment and to maximize the use of our natural resources, GIGABYTE provides the following information on how you can responsibly recycle or reuse most of the materials in your "end of life" product. Restriction of Hazardous Substances (RoHS) Directive Statement GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE and PBB). The parts and components have been carefully selected to meet RoHS requirement.

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