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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-7ZXE. You'll find the answers to all your questions on the GIGABYTE GA-7ZXE 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-7ZXE
User guide GIGABYTE GA-7ZXE
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Instruction manual GIGABYTE GA-7ZXE

FCC Compliance Statement:



This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be

determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Move the equipment away from the receiver
- Plug the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radiotelevision technician for additional suggestions

You are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void Your authority to operate such equipment.

This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions: 1) this device may not cause harmful interference and 2) this device must accept any interference received, including interference that may cause undesired operation.



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Manual abstract:

1077(a) Responsible Party Name: G.B.T. INC. Address: 18305 Valley Blvd., Suite#A LA Puent, CA 91744 Phone/Fax No: (818) 854-9338/ (818) 854-9339 hereby declares that the product Product Name: Mother Board Model Number: GA-7ZXE Conforms to the following specifications: FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109(a), Class B Digital Device Supplementary Information: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any interference received, including that may cause undesired operation. ERIC LU Representative Person's Name: Signature: Date: Jul.

26, 2001 -Reorient or relocate the receiving antenna -Move the equipment away from the receiver -Plug the equipment into an outlet on a circuit different from that to which the receiver is connected -Consult the dealer or an experienced radio/television technician for additional suggestions You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void Your authority to operate such equipment. This device complies with Part 15 of the FCC Rules. @@@@Initial release of the 7ZXE motherboard user's manual. Date Aug. 2001 Sep. @Third-party brands and names are the property of their respective owners. Please do not remove any labels on motherboard, this may void the warranty of this motherboard. Sep.5, 2001 Taipei, Taiwan, R.O.

C 1 Item Checklist Item Checklist The 7ZXE motherboard Cable for IDE / floppy device Diskettes or CD (VUCD) for motherboard driver & utility 7ZXE user's manual 2 7ZXE Motherboard Features Summary Form Factor CPU Chipset 30.4 cm x 18.3 cm ATX size form factor, 4 layers PCB. AMD AthlonTM/DuronTM (K7) Socket A Processor FSB 200/266MHz, 256K/64K L2 cache on die Supports 600MHz ~ 1.5GHz and faster Apollo KT133A, consisting of: VT8363A Memory/AGP/PCI Controller (PAC) VT82C686B PCI Super-I/O Integrated Peripheral Controller (PSIPC) ICS 94236AF Clock Generator Memory I/O Control Slots On-Board IDE On-Board Peripherals Hardware Monitor PS/2 Connector On-Board Sound BIOS Additional Features 3 168-pin DIMM sockets Supports PC-100 / PC-133 SDRAM and VCM SDRAM Supports up to 1.5GB DRAM Supports only 3.3V SDRAM DIMM VT82C686B 1 AGP slot supports 4X mode & AGP 2.0 compliant 5 PCI slots supports 33MHz & PCI 2.2 compliant Supports UDMA 33/ATA 66/ATA 100 IDE & ATAPI CD-ROM 2 IDE bus master (UDMA 33 / ATA 66 / ATA 100) IDE ports for up to 4 ATAPI devices 1 floppy port supports 2 FDD with 360K, 720K, 1.2M, 1.

44M and 2.88M bytes 1 parallel ports supports Normal/EPP/ECP mode 2 serial ports (COM A & COM B) 4 USB ports 1 IrDA connector for IR System voltage detect PS/2 Keyboard interface and PS/2 Mouse interface AC'97 CODEC Line In/Line Out/Mic In/F/CD In/Game Port Licensed AMI BIOS, 2M bit flash ROM Support Wake-On-LAN Includes 2 fan power connectors Poly fuse for keyboard over-current protection Support @BIOSM and EasyTuneIIITM 3 7ZXE Motherboard Layout 7ZXE (Rev. 1.01) Motherboard Layout USB_ON RAM_LED F_PANEL PS/2 USB1 ATX POWER PWR_FAN STR_EN COM A COM B LPT GAME & AUDIO CPU_FAN CD_IN VT8363A IDE1 IDE2 USB2 SYS_FAN 7ZXE DIMM2 DIMM1 DIMM3 AC'97 AGP 1 CLK_JP PCII Clock Generator SPDIF PCI2 VT82C 686B WOL PCI3 PCI4 BIOS BAT1 PCI5 IR ISA 1 4 FLOPPY Socket A CPU STR_LED 7ZXE Motherboard 7ZXE Motherboard Layout PS/2 USB_ON ATX POWER STR_EN USB1 COM A COM B LPT GAME & AUDIO CPU_FAN CD_IN VT8363A IDE1 IDE2 SYS_FAN USB2 F_PANEL 7ZXE DIMM2 DIMM1 DIMM3 AC'97 AGP 1 CLK_JP PCII Clock Generator PCI2 VT82C 686B WOL PCI3 PCI4 BIOS BAT1 PCI5 IR 5 FLOPPY Socket A CPU STR_LED RAM_LED Installation Guide Installation Guide Getting Started WARNING! Computer motherboards and expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer. Unplug your computer when working on the inside. Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case. Hold components by the edges and try not touch the IC chips, leads or connectors, or other components. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.

Ensure that the ATX power supply is switched off before you plug in or remove the ATX power connector on the motherboard. 1. 2. 3. 4.

5. Installing the motherboard to the chassis... If the motherboard has mounting holes, but they don't line up with the holes on the base and there are no slots to attach the spacers, do not become alarmed you can still attach the spacers to the mounting holes.

Just cut the bottom portion of the spacers (the spacer may be a little hard to cut off, so be careful of your hands). In this way you can still attach the motherboard to the base without worrying about short circuits. Sometimes you may need to use the plastic springs to isolate the screw from the motherboard PCB surface, because the circuit wire may be near by the hole. Be careful, don't let the screw contact any printed circuit write or parts on the PCB that are near the fixing hole, otherwise it may damage the board or cause board malfunctioning. 6 7ZXE Motherboard To set up your computer, you must complete the following steps: Step 1 - Set system jumpers Step 2- Install the Central Processing Unit (CPU) Step 3-Install memory modules Step 4-Install expansion cards Step 5-Connect ribbon cables, cabinet wires, and power supply Step 6-Set up BIOS software Step 7-Install supporting software tools Step 2 Step 3 Step 5 Step 5 Step 1 Step 4 7 Installation Guide CPU Installation The system bus speed is selectable at 100MHz& 133MHz. The user can select the system bus speed by Jumper "CLK_JP". CPU CLK Frequency CLK_JP 100MHz 2-3 Close 133MHz 1-2 Close CLK_JP 8 7ZXE Motherboard CPU Installation Please make sure the CPU should be supported to the motherboard. CPU Top View CPU Bottom View Socket Actuation Lever Blank 1.Pull the lever out and lift it up. 2.

The notched corner should be orientated toward the blank space on the socket nearest the lever. The CPU will only fit in the orientation as shown. CPU Heat Sink Installation: Beware: Please check that the heat sink is in good contact with the CPU before you turn on your system. The poor contact will cause over heat, and might cause damage to your processor! 9 Installation Guide 3.Align CPU and insert it (Please refer to your heatsink installation manual for application of thermal grease to provide better heat conduction between your CPU and heatsink.



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) 4. Use compliant fan approved by AMD. 5. Hook one end of the cooler bracket to the CPU socket. 6.

Hook the other end of the cooler bracket to the CPU socket. (Please refer to the cooler's installation manual for detailed cable and other related devices are firmly connected to the mainboard. Pin No. 3,5,7,13, 15-17 1,2,11 4,6,19,20 10 12 18 8 9 14 Definition GND 3.3V VCC +12V -12V -5V Power Good 5V SB (stand by+5V) PS-ON (Soft On/Off) 16 7ZXE Motherboard Floppy Port Red Line FDD1 IDE1 (Primary), IDE2 (Secondary) Port Red Line IDE 1 IDE 2 17 Connectors CD_IN: CD Audio Line In (Optional) 1 Pin No.

1 2 3 4 Definition CD-L GND GND CD-R WOL: Wake On LAN (Optional) 1 Pin No. Definition 1 +5V SB 2 GND 3 Signal 18 7ZXE Motherblock Frequency Internal MHz External MHz SiSoft Sandra 20001 CPU/FPU Benchmark CPU Multi-Media Benchmark Drivers Benchmark Memory Benchmark SPECviewperf 6.12 Pro CDRS-03 MedMCAD-01 Light-04 DX-06 DRV-07 CPU Awards-04 Winstone 2001 CC Winstone 2001 Business Winstone 2001 3D Mark 2001 1.0 If you wish to maximize the performance of your system, please refer to the detail on P.46 24 7ZXE Motherboard Block Diagram AMD-K7 AGP 2X/4X System Bus 100/133MHz AGPCLK (66MHz) TM CPUCLK (100/133MHz) VT8363A 100/133MHz 3.

3V SDRAM HCLK (100/133MHz) AGPCLK (66MHz) PCI Bus 33MHz 33MHz 14.318MHz 48MHz VT82C 686B AC97 CODEC LPT PS/2 Floppy Port Game Port 4 USB Ports 5 PCI PCI (33MHz) COM Ports ATA66/100 IDE Channels AGPCLK (66MHz) PCI (33MHz) 48MHz 14.318MHz 33MHz HCLK (100/133MHz) ICS 94236AF AGPCLK (66MHz) CPUCLK (100/133MHz) 25 Suspend to RAM Installation Suspend To RAM Installation A.1 Introduce STR function: Suspend-to-RAM (STR) is a Windows 98/ME/2000 ACPI sleep mode function. When recovering from STR (S3) sleep mode, the system is able, in just a few seconds, to retrieve the last "state" of the system before it went to sleep and recover to that state. The "state" is stored in memory (RAM) before the system goes to sleep. During STR sleep mode, your system uses only enough energy to maintain critical information and system functions, primarily the system state and the ability to recognize various "wake up" triggers or signals, respectively. A.2 STR function Installation Please use the following steps to complete the STR function installation. Step-By-Step Setup Step 1: To utilize the STR function, the system must be in Windows 98/ME/2000 ACPI mode.

Putting Windows 98/ME/2000 into ACPI mode is fairly easy. Setup with Windows Installation CD-title: A. B. C. Insert the Windows ME (98/2000) into your CD-ROM drive, select Start, and then run. Type (without quotes) "D:\setup" in the window provided. Hit the enter key or click OK. After setup completes, remove the CD, and reboot your system (This manual assumes that your CD-ROM device drive letter is D:). 26 7ZXE Motherboard Step 2: (If you want to use STR Function, please set jumper "STR_EN" Pin1-2 (Closed.) 1 1 Enable Disable (Default) Pin No.

1-2 Close 2-3 Close Definition STR Enable STR Disable(Default) Step 3: Power on the computer and as soon as memory counting starts, press . You will enter BIOS Setup. Select the item "POWER MANAGEMENT SETUP", then select "ACPI Sleep Type : S3 /STR". Remember to save the settings by pressing "ESC" and choose the "SAVE & EXIT SETUP" option. Congratulations! You have completed the installation and now can use the STR function. 27 Suspend to RAM Introduction A.3 How to put your system into STR mode? (For example : Windows ME) 1. There are two ways to accomplish this: Choose the "Stand by" item in the "Shut Down Windows" area. A. Press the "Start" button and then select "Shut Down" B.

Choose the "Stand by" item and press "OK" 28 7ZXE Motherboard 2. Define the system "power on" button to initiate STR sleep mode: A. Double click "My Computer" and then "Control Panel" B. Double click the "Power Management" item. 29 Suspend to RAM Introduction C. Select the "Advanced" tab and "Standby" mode in Power Buttons. D. Restart your computer to complete setup. Now when you want to enter STR sleep mode, just momentarily press the "Power on" button. A.

4 How to recover from the STR sleep mode? There are four ways to "wake up" the system: 1. 2. 3. 4. Press the "Power On" button. Use the "Resume by Alarm" function. Use the "Wake On LAN" function. Use the "USB Device Wake Up" function. 30 7ZXE Motherboard A.5 Notices : 1.

In order for STR to function properly, several hardware and software requirements must be satisfied: A. Your ATX power supply must comply with the ATX 2.01 specification (provide more than 720 mA 5V Stand-By current). 2. B.

Your SDRAM must be PC-100 compliant. Jumper "STR_LED" is provided to connect to the STR LED in your system chassis. [Some chassis may not provide this feature.] The STR LED will be illuminated when your system is in STR sleep mode. + 1 STR LED Connector External Please note: Do not remove memory modules while DIMM LED is on.

It might cause short or other unexpected damages due to the 3.3V stand by voltage. Remove memory modules only when STR function is disabled by jumper and AC Power cord is disconnected. 31 Q-Flash BIOS Utility Introduction Q-Flash BIOS Utility Introduction A. What's Q-Flash BIOS Utility?? Q-Flash utility is a pre-O.S. BIOS flash utility enables users to update its BIOS within BIOS mode, no more fooling around any OS. B. How to use Q-Flash BIOS Utility ? a. BIOS CMOS setup Screen, Pressing <F8> immediately enters BIOS Flash Utility.

AMIBIOS SIMPLE SETUP UTILITY VERSION 1.24f (C) 1999 American Megatrends, Inc. All Rights Reserved STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PNP / PCI CONFIGURATION LOAD FAIL -SAFE DEFAULTS LOAD OPTIMIZED DEFAULTS INTEGRATED PERIPHERALS HARDWARE MONITOR & MISC SETUP SUPERVISOR PASSWORD USER PASSWORD IDE HDD AUTO DETECTION SAVE & EXIT SETUP EXIT WITHOUT SAVING Enter BIOS Flash Utility (Y/N)? Y ESC: Quit : Select Item (Shift)F2 : Change Color F5: Old Values F6: Fail-Safe Values F7: Optimized Values F8 : Flash Utility F10: Save & Exit Time, Date , Hard Disk Type... b. AMI Q-Flash BIOS Utility AMI BIOS Flash Utility V1.02 Boot From...

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

..... Main BIOS Main ROM Type....

.....
.....

..... SST 39SF020 Load BIOS from Floppy Enter : Run : Move ESC : Reset F10 : Power Off 32 7ZXE Motherboard c. In the A: drive, insert the "BIOS" diskette, then Press Enter to Run. d.

Input BIOS file name in the text box. Press "Enter". Load XXX.XX Where XXX.XX is name of the BIOS file. Are Loads sure to COPY BIOS? you XXX.



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XX [Enter] to Continue Or [Esc] to abort.. Load BIOS Completed Pass !!! COPY XXX.XX Please press any key to continue Congratulations! You have completed the flashed and now can restart system.

33 @BIOS Introduction @BIOS Introduction Gigabyte announces @BIOS Windows BIOS live update utility Have you ever updated BIOS by yourself? Or like many other people, you just know what BIOS is, but always hesitate to update it? Because you think updating newest BIOS is unnecessary and actually you don't know how to update it. Maybe not like others, you are very experienced in BIOS updating and spend quite a lot of time to do it. But of course you don't like to do it too much. First, download different BIOS from website and then switch the operating system to DOS mode. Secondly, use different flash utility to update BIOS.

The above process is not an interesting job. Besides, always be carefully to store the BIOS source code correctly in your disks as if you update the wrong BIOS, it will be a nightmare. Certainly, you wonder why motherboard vendors could not just do something right to save your time and effort and save you from the lousy BIOS updating work? Here it comes! Now Gigabyte announces @BIOS--the first Windows BIOS live update utility. This is a smart BIOS update software. It could help you to download the BIOS from internet and update it.

Not like the other BIOS update software, it's a Windows utility. With the help of "@BIOS", BIOS updating is no more than a click. Besides, no matter which mainboard you are using, if it's a Gigabyte's product*, @BIOS help you to maintain the BIOS. This utility could detect your correct mainboard model and help you to choose the BIOS accordingly. It then downloads the BIOS from the nearest Gigabyte ftp site automatically. There are several different choices; you could use "Internet Update" to download and update your BIOS directly. Or you may want to keep a backup for your current BIOS, just choose "Save Current BIOS" to save it first. You make a wise choice to use Gigabyte, and @BIOS update your BIOS smartly. You are now worry free from updating wrong BIOS, and capable to maintain and manage your BIOS easily. Again, Gigabyte's innovative product erects a milestone in mainboard industries.

For such a wonderful software, how much it costs? Impossible! It's free! Now, if you buy a Gigabyte's motherboard, you could find this amazing software in the attached driver CD. But please remember, connected to internet at first, then you could have an internet BIOS update from your Gigabyte @BIOS. 34

7ZXE Motherboard EasyTuneIIITM Introduction Gigabyte announces EasyTuneIIITM Windows overdrive utility "Overdrive" might be one of the most common issues in computer field. But have many users ever tried it? The answer is probably "no". Because "overdrive" is thought to be very difficult and includes a lot of technical know-how, sometimes "overdrive" is even considered as special skills found only in some enthusiasts. But as to the experts in "overdrive", what's the truth? They may spend quite a lot of time and money to study, try and use many different hardware and software tools to do "overdrive". And even with these technologies, they still learn that it's quite a risk because the safety and stability of an "overdrive" system is unknown. Now everything is different because of a Windows overdrive utility EasyTuneIIITM--announced by Gigabyte. This utility has totally changed the gaming rule of "overdrive". This is the first overdrive utility suitable for both normal and power users.

Users can choose either "Easy Mode" or "Advanced Mode" to run "overdrive" at their convenience. For users who choose "Easy Mode", they just need to click "Auto Optimize" to have auto and immediate CPU overlocking. This software will then overdrive CPU speed automatically with the result being shown in the control panel. If someone prefers to "overdrive" by oneself, there is also another choice. Click "Advanced Mode" to enjoy "sport drive" class overlocking.

In "Advanced Mode", one can change the system bus speed in small increments to get ultimate system performance. And no matter which mainboard is used, if it's a Gigabyte's product*, EasyTuneIIITM helps to perform the best of system. Besides, different from other traditional over-clocking methods, EasyTuneIIITM doesn't require users to change neither BIOS nor hardware switch/ jumper setting; on the other hand, they can do "overdrive" at only one click. Therefore, this is a safer way for "overdrive" as nothing is changed on software or hardware. If user runs EasyTuneIIITM over system's limitation, the biggest lost is only to restart the computer again and the side effect is then well controlled.

Moreover, if one well-performed system speed been tested in EasyTuneIIITM, user can "Save" this bus speed and "Load" it in next time. Obviously, Gigabyte EasyTuneIIITM has already turned the "overdrive" technology toward to a newer generation. 35 EasyTuneIIITM Introduction This wonderful software is now free bundled in Gigabyte motherboard attached driver CD. Users may make a test drive of "EasyTuneIIITM" to find out more amazing features by themselves.

For further technical information, please link to: <http://www.gigabyte.com.tw> Note: For the latest version of EasyTuneIIITM, please visit our website. 36 7ZXE Motherboard Page Index for BIOS Setup The Main Menu Standard CMOS Setup BIOS Features Setup Chipset Features Setup Power Management Setup PNP/ PCI Configuration Load Fail-Safe Defaults Load Optimized Defaults Integrated Peripherals Hardware Monitor & MISC Setup Supervisor Password / User Password IDE HDD Auto Detection Save & Exit Setup Exit Without Saving Page P.39 P.

41 P.44 P.46 P.50 P.53 P.56 P.57 P.58 P.62 P.63 P.

64 P.65 P.66 37 BIOS Setup BIOS Setup BIOS Setup is an overview of the BIOS Setup Program. The program that allows users to modify the basic system configuration. This type of information is stored in battery-backed CMOS RAM so that it retains the Setup information when the power is turned off.

ENTERING SETUP Power ON the computer and press immediately will allow you to enter Setup. CONTROL KEYS <> <> <> <> <Esc> Move to previous item Move to next item Move to the item in the left hand Move to the item in the right hand 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 Reserved Reserved Reserved Restore the previous CMOS values Load the file-safe default CMOS value from BIOS default table Load the Setup Defaults Reserved Reserved Save all the CMOS changes, only for Main Menu <+/PgUp> <-/PgDn> <F1> <F2> <F3> <F4> <F5> <F6> <F7> <F8> <F9> <F10> 38 7ZXE Motherboard GETTING HELP Main Menu The on-line description of the highlighted setup function is displayed at the bottom of the screen.



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Status Page Setup Menu / Option Page Setup Menu Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc>. The Main Menu (For Example BIOS Version:7ZXE.
F2e) Once you enter AMI BIOS CMOS Setup Utility, the Main Menu (Figure 1) will appear on the screen. @@@@Each category includes no, one or more than one setup items. @@@@Through Dec. @@@@The time is calculated base on the 24-hour military-time clock. For example, 1 p.m. @@@@There are two types: auto type, and user definable type. @@@@Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category. @@@@CYLS.

@@None 360K, 5.25 in. 1.2M, 5.25 in. 720K, 3.5 in. 1.44M, 3.5 in.
2.88M, 3.5 in. @@@@You can run anti-virus program to locate the problem. @@@@This is memory that can be used for different applications.
@@@@Boot Device by ZIP A: / LS-120. Boot Device by CDROM. Boot Device by SCSI. Boot Device by NETWORK. Boot Device by IDE-0-IDE-3. Boot Device by Disabled. Boot Device by USB FDD. @@@@for Hard Disks Enabled Disabled Enable S.M.A.R.T. Hard for Disks. Disable S.M.

A.R.T. Hard for Disks. @@@@360 type is 40 tracks while 720 , 1.2 and 1.44 are all 80 tracks. @@@@ (Default Value) 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 360. Disabled · Password Check Setup Always Set Password Check to Setup.

(Default Value) Set Password Check to Always. 45 BIOS Setup Chipset Features Setup AMIBIOS SETUP CHIPSET FEATURES SETUP (C) 1999 American Megatrends, Inc. All Rights Reserved *****DRAM Timing*** SDRAM Command Drive Top Performance Disabled Memory Address Drive DRAM Frequency 100MHz CAS# Drive SDRAM CAS# Latency 3 RAS# Drive AGP Fast Write AGP Mode AGP Comp. Driving Manual AGP Comp. Driving AGP Aperture Size PCI Delay Transaction USB Controller USB Port 64/60 Emulation BIOS Flash Protection DRAM Drive Strength MD Bus Strength CAS Bus Strength Delay DRAM Read Latch Memory Data Drive Disabled 4X Auto DB 64MB Enabled All USB Port Disabled Auto Auto High High 1.

Ons 8 mA 24 mA 24 mA 12 mA 24 mA ESC: Quit : Select Item F1 : Help PU/PD+/-/ : Modify F5 :Old Values (Shift)F2:Color F6 : Load Fail-Safe F8: Flash Utility F7 : Load Optimized Figure 4: Chipset Features Setup · Top Performance If you wish to maximize the performance of your system, set "Top Performance" as "Enabled". Disabled Enabled Top Performance Disable. (Default Value) Top Performance Enable. · DRAM Frequency Auto 100MHz 133MHz Set DRAM Frequency to Auto. Set DRAM Frequency to 100MHz.

(Default Value) Set DRAM Frequency to 133MHz. · SDRAM CAS# Latency 2 3 Auto For Fastest SDRAM DIMM module. For Slower SDRAM DIMM module. (Default Value) Detect SDRAM CAS# Latency by SPD. 46 7ZXE Motherboard · AGP Fast Write Enabled Disabled Enable this function only if the AGP Card support Fast Write Function. (Enable this function can increase AGP performance). Disable this function. (Default Value) · AGP Mode 4X 1X 2X Set AGP Mode to 4X. (Default Value) Set AGP Mode to 1X. Set AGP Mode to 2X.

· AGP Comp. Driving Auto Manual Set AGP Comp. Driving to Auto. (Default Value) Set AGP Comp. Driving to Manual. If AGP Comp. Driving is Manual. Manual AGP Comp. Driving: 00-FF · AGP Aperture Size 4MB 8MB 16MB 32MB 64MB 128MB 256MB Set AGP Aperture Size to 4MB. Set AGP Aperture Size to 8 MB. Set AGP Aperture Size to 16 MB. Set AGP Aperture Size to 32 MB. Set AGP Aperture Size to 64 MB. (Default Value) Set AGP Aperture Size to 128 MB. Set AGP Aperture Size to 256 MB.

· PCI Delay Transaction Enabled Disabled Enable Delay Transaction. (Default Value) Disable Delay Transaction. · USB Controller All USB Port USB Port 0&1 USB Port 2&3 Disabled Set USB Controller Function used all USB Port. (Default Value) Set USB Controller Function used USB Port 0&1. Set USB Controller Function used USB Port 2&3.

USB Controller Function Disabled. 47 BIOS Setup · USB Legacy Support Keyboard/FDD KB/Mouse/FDD Disabled Set USB Legacy Support Keyboard / Floppy. Set USB Legacy Support Keyboard / Mouse /Floppy. Disable USB Legacy Support Function. (Default Value) · USB Port 64/60 Emulation Enabled To use USB mouse under Win NT environment, set USB Legacy Support to KB/Mouse/FDD and USB Port 64/60 Emulation to enabled. Disable this Function. (Default Value) Disabled · BIOS Flash Protection This field lets you determine the states that flash BIOS Enabled Auto During POST, DMI/ESCD would not be updated. But flash tools can update BIOS always BIOS enables flash write access automatically when updating BIOS data/DMI/ESCD. (Default Value) · DRAM Drive Strength Auto Manual Set DRAM Drive Strength Auto. (Default Value) Set DRAM Drive Strength Manual.

If DRAM Drive Strength is Manual, then you can adjust item below. · MD Bus Strength High Low Set MD Bus Strength High. (Default Value) Set MD Bus Strength Low. · CAS Bus Strength High Low Set CAS Bus Strength High. (Default Value) Set CAS Bus Strength Low. · Delay DRAM Read Latch 1.0ns 1.5ns 0.5ns No delay Set DRAM Read Latch Delay 1.0ns.

(Default Value) Set DRAM Read Latch Delay 1.5ns. Set DRAM Read Latch Delay 0.5ns. Set DRAM Read Latch No delay.
48 7ZXE Motherboard · Memory Data Drive 6 mA 8 mA Set Memory Data Drive 6 mA. Set Memory Data Drive 8 mA. @@@@Set SDRAM Command Drive 24 mA. @@@@Set Memory Address Drive 24 mA. @@@@Set CAS# Drive 12 mA.

@@@@Set RAS# Drive 24 mA. @@@@Disable USB Device Wakeup From S3-S5. @@@@ (Default Value) Enable Suspend Time Out after 1min. Enable Suspend Time Out after 2min. Enable Suspend Time Out after 4min. Enable Suspend Time Out after 8min. Enable Suspend Time Out after 10min. Enable Suspend Time Out after 20min. Enable Suspend Time Out after 30min. Enable Suspend Time Out after 40min.

Enable Suspend Time Out after 50min. @@@@ (Default Value) Press power button 4 sec to Power off. Enter suspend if button is pressed less than 4 sec. · System after AC Back Memory Soft-Off Full-On When AC-power back to the system, the system will return to the Last state before AC-power off. 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 will be in "On" state. 51 BIOS Setup · Resume On Ring / LAN Disabled Enabled Disable Resume On Ring / LAN. Enable Resume On Ring / LAN. (Default Value) · PME Event Wake Up Disabled Enabled Disable PME Event Wake Up. Enable PME Event Wake Up.

(Default Value) · Resume On RTC Alarm You can set "Resume On RTC Alarm" item to enabled and key in Data/time to power on system. Disabled Enabled Disable this function.



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(Default Value) Enable alarm function to POWER ON system. Every Day, 1~31 0~23 0~59 0~59 If the "Resume On RTC Alarm" is Enabled. RTC Alarm Date: RTC Alarm Hour: RTC Alarm Minute: 52 7ZXE Motherboard PNP/PCI Configurations AMIBIOS SETUP PNP / PCI CONFIGURATION (C) 1999 American Megatrends, Inc.

All Rights Reserved PnP OS Installed No Reset Configuration Data No VGA Boot from AGP Disabled PCI AGP Palette Snoop Auto PCI Slot 1/5 IRQ Priority Auto PCI Slot 2 IRQ Priority Auto PCI Slot 3 IRQ Priority Auto PCI Slot 4 IRQ Priority IRQ 3 PCI/PnP IRQ 4 PCI/PnP IRQ 5 PCI/PnP IRQ 7 PCI/PnP IRQ 9 PCI/PnP IRQ 10 PCI/PnP ESC: Quit : Select Item IRQ 11 PCI/PnP F1 : Help PU/PD+/- : Modify IRQ 14 PCI/PnP F5 : Old Values (Shift)F2:Color IRQ 15 PCI/PnP F6 : Load Fail-Safe F8 : Flash Utility F7 : Load Optimized Figure 6: PNP/PCI Configuration · PnP OS Installed Yes No Enable PNP OS Installed function. Disable PNP OS Installed function. (Default Value) · Reset Configuration Data No Yes Disable this function. (Default Value) Clear PnP information in ESCD & update DMI data. · VGA Boot From AGP PCI Primary Graphics Adapter From AGP.

(Default Value) Primary Graphics Adapter From PCI. · PCI VGA Palette Snoop Enabled Disabled For having Video Card on ISA Bus and VGA Card on PCI Bus. For VGA Card only. (Default Value) 53 BIOS Setup · PCI Slot 1,5 IRQ Priority Auto 3 4 5 7 9 10 11 The system will reserved a free IRQ for PCI slot 1 & 5 device. (Default Value) The system will reserved IRQ3 for PCI slot 1 & 5 device if no legacy ISA device using IRQ3. The system will reserved IRQ4 for PCI slot 1 & 5 device if no legacy ISA device using IRQ4. The system will reserved IRQ5 for PCI slot 1 & 5 device if no legacy ISA device using IRQ5. The system will reserved IRQ7 for PCI slot 1 & 5 device if no legacy ISA device using IRQ7. The system will reserved IRQ9 for PCI slot 1 & 5 device if no legacy ISA device using IRQ9. The system will reserved IRQ10 for PCI slot 1 & 5 device if no legacy ISA device using IRQ10.

The system will reserved IRQ11 for PCI slot 1 & 5 device if no legacy ISA device using IRQ11. · PCI Slot 2 / 3 / 4 IRQ Priority Auto 3 4 5 7 9 10 11 The system will reserved a free IRQ for PCI slot 2 / 3 / 4 device. (Default Value) The system will reserved IRQ3 for PCI slot 2 / 3 / 4 device if no legacy ISA device using IRQ3. The system will reserved IRQ for PCI slot 2 / 3 / 4 device if no legacy ISA device using IRQ4. The system will reserved IRQ5 for PCI slot 2 / 3 / 4 device if no legacy ISA device using IRQ5. The system will reserved IRQ7 for PCI slot 2 / 3 / 4 device if no legacy ISA device using IRQ7. The system will reserved IRQ9 for PCI slot 2 / 3 / 4 device if no legacy ISA device using IRQ9. The system will reserved IRQ10 for PCI slot 2 / 3 / 4 device if no legacy ISA device using IRQ10. The system will reserved IRQ11 for PCI slot 2 / 3 / 4 device if no legacy ISA device using IRQ11. 54 7ZXE Motherboard · IRQ (3, 4, 5, 7, 9, 10, 11, 14, 15) ISA/EISA PCI / PnP The resource is used by Legacy ISA device.

The resource is used by PCI/ PnP device. 55 BIOS Setup Load Fail-Safe Defaults AMIBIOS SIMPLE SETUP UTILITY-VERSION 1.24g (C) 1999 American Megatrends, Inc. All Rights Reserved STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PNP/PCI CONFIGURATION INTEGRATED PERIPHERALS HARDWARE MONITOR & MISC SETUP SUPERVISOR PASSWORD USER PASSWORD IDE HDD AUTO DETECTION Load Fail-Safe Defaults (Y/N)? N SAVE & EXIT SETUP LOAD FAIL-SAFE DEFAULTS LOAD OPTIMIZED DEFAULTS EXIT WITHOUT SAVING ESC : Quit : Select Item (Shift) F2 : Change Color F5 : Old Values F6 : Fail-Safe Value F7: Load Optimized Value F8:FlashUtility F10: Save & Exit Load Fail-Safe Defaults except Standard CMOS SETUP Figure 7: Load Fail-Safe Defaults · Load Fail-Safe Defaults Fail-Safe defaults contain the most appropriate system parameter values of to configure the system to achieve maximum stability. 56 7ZXE Motherboard Load Optimized Defaults AMIBIOS SIMPLE SETUP UTILITY-VERSION 1.

24g (C) 1999 American Megatrends, Inc. All Rights Reserved STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP INTEGRATED PERIPHERALS HARDWARE MONITOR & MISC SETUP SUPERVISOR PASSWORD USER PASSWORD Load Optimized Defaults (Y/N)? N PNP/PCI CONFIGURATION IDE HDD AUTO DETECTION LOAD FAIL-SAFE DEFAULTS LOAD OPTIMIZED DEFAULTS SAVE & EXIT SETUP EXIT WITHOUT SAVING ESC : Quit : Select Item (Shift) F2 : Change Color F5 : Old Values F6 : Fail-Safe Value F7: Load Optimized Value F8:FlashUtility F10: Save & Exit Load Optimized Defaults except Standard CMOS SETUP Figure 8: Load Optimized Defaults · Load Optimized Defaults Optimized defaults contain the most appropriate system parameter values to configure the system to achieve maximum performance. 57 BIOS Setup Integrated Peripherals AMIBIOS SETUP INTEGRATED PERIPHERALS (C) 1999 American Megatrends, Inc. All Rights Reserved Enhance ATAPI Performance FM Port (388h-38Bh) Disabled Disabled OnBoard IDE Game Port(200h-207h) Enabled Both IDE1 Conductor Cable Auto IDE2 Conductor Cable Auto OnBoard Serial Port A Auto Auto OnBoard Serial Port B Normal Serial PortB Mode N/A Duplex Mode Auto OnBoard Parallel Port Parallel Port Mode ECP Parallel Port DMA Auto Parallel Port IRQ Auto AC97 Audio Auto OnBoard Legacy Audio Enabled Sound Blaster Disabled SB I/O Base Address 220h-22Fh ESC: Quit : Select Item SB IRQ Select 5 F1 : Help PU/PD+/- : Modify SB DMA Select 1 F5 : Old Values (Shift)F2:Color MPU-401 Disabled F6 : Load Fail-Safe F8:Flash Utility MPU-401 I/O Address 330h-333h F7 : Load Optimized Figure 9: Integrated Peripherals This items will be available when "Serial PortB Mode" is set to IrDA or ASK IR. · Enhance ATAPI Performance If you wish to maximize the performance of your ATAPI devices , set "Enhance ATAPI Performance" as "Enabled".

Please note, enabling this function may cause your ATAPI devices become unstable. For power End-User use only. Disabled Enabled Disable Enhance ATAPI Performance. (Default Value) Enhance ATAPI Performance function. · OnBoard IDE Disabled Both Primary Secondary Disable onboard IDE. Both Primary & Secondary IDE channel will be enabled. (Default Value) Only Primary IDE channel is enable. Only Secondary IDE channel is enable. 58 7ZXE Motherboard · IDE1 Conductor Cable Auto ATA66/100 ATA33 Will be automatically detected by BIOS (Default Value) Set IDE1 Conductor Cable to ATA66/100 (Please make sure your IDE device and cable is compatible with ATA66/100) Set IDE1 Conductor Cable to ATA33 (Please make sure your IDE device and cable is compatible with ATA33). · IDE2 Conductor Cable Auto ATA66/100 ATA33 Will be automatically detected by BIOS (Default Value) Set IDE1 Conductor Cable to ATA66/100 (Please make sure your IDE device and cable is compatible with ATA66/100) Set IDE1 Conductor Cable to ATA33 (Please make sure your IDE device and cable is compatible with ATA33).



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· OnBoard Serial Port A Auto 3F8/COM1 2F8/COM2 3E8/COM3 2E8/COM4 Disabled BIOS will automatically setup the port A address. (Default Value) Enable onboard Serial port A and address to 3F8. Enable onboard Serial port A and address to 2F8. Enable onboard Serial port A and address to 3E8. Enable onboard Serial port A and address to 2E8. Disable onboard Serial port A. · OnBoard Serial Port B Auto 3F8/COM1 2F8/COM2 3E8/COM3 2E8/COM4 Disabled BIOS will automatically setup the port B address. (Default Value) Enable onboard Serial port B and address to 3F8. Enable onboard Serial port B and address to 2F8. Enable onboard Serial port B and address to 3E8. Enable onboard Serial port B and address to 2E8. Disable onboard Serial port B. · Serial Port B Mode Normal IrDA ASK IR Normal operation. (Default Value) Onboard I/O chip supports IRDA Onboard I/O chip supports ASK IR. 59 BIOS Setup · Duplex Mode Half Duplex N/A Full Duplex IR Function Duplex Half.

Disable this function. (Default Value) IR Function Duplex Full. · OnBoard Parallel port 378 278 3BC Auto Disabled Enable onboard LPT port and address to 378. Enable onboard LPT port and address to 278. Enable onboard LPT port and address to 3BC. Set onboard LPT port to Auto. (Default Value) Disable onboard LPT port. · Parallel Port Mode EPP ECP Normal EPP+ECP Using Parallel port as Enhanced Parallel Port. Using Parallel port as Extended Capabilities Port. (Default Value) Normal Operation. Using Parallel port as Enhanced Parallel Port & Extended Capabilities Port. · Parallel Port DMA Auto 3 1 0 Set Auto to parallel port mode DMA Channel. (Default Value) Set Parallel Port DMA to 3. Set Parallel Port DMA to 1. Set Parallel Port DMA to 0.

· Parallel Port IRQ 7 Auto 5 Set Parallel Port IRQ to 7. Set Auto to parallel Port IRQ DMA Channel. (Default Value) Set Parallel Port IRQ to 5. · AC97 Audio Auto Disabled Enable onboard AC'97 Audio. (Default Value) Disable onboard AC'97 Audio. · OnBoard Legacy Audio Enabled Disabled Enable onboard Legacy Audio. (Default Value) Disable onboard Legacy Audio. 60 7ZXE Motherboard · Sound Blaster Enabled Disabled Enable Sound Blaster. Disable Sound Blaster. (Default Value) · SB I/O Base Address 220h-22Fh 280h-28Fh 260h-26Fh 240h-24Fh Set SB I/O Base Address to 220h-22Fh. (Default Value) Set SB I/O Base Address to 280h-28Fh. Set SB I/O Base Address to 260h-26Fh. Set SB I/O Base Address to 240h-24Fh. · SB IRQ Select IRQ 5 / 7 / 9 / 10. (Default Value: 5) · SB DMA Select DMA 0 / 1 / 2 / 3. (Default Value: 1) · MPU-401 Enabled Disabled Enable MPU-401. Disable MPU-401. (Default Value) Ps. When Force Feedback joystick is used, MPU-401 needs to be Enable. · MPU-401 I/O Address 330h-333h 300h-303h 310h-313h 320h-323h Set MPU-401 I/O Address to 330h-333h. (Default Value) Set MPU-401 I/O Address to 300h-303h. Set MPU-401 I/O Address to 310h-313h. Set MPU-401 I/O Address to 320h-323h. · FM Port (388h-38Bh) Disabled Enabled Disable FM Port (388h-38Bh). (Default Value) Enable FM Port (388h-38Bh). · Game Port (200h-207h) Disabled Enabled Disable Game Port (200h-207h). Enable Game Port (200h-207h). (Default Value) 61 BIOS Setup Hardware Monitor & MISC Setup AMIBIOS SETUP HARDWARE MONITOR & MISC SETUP (C) 1999 American Megatrends, Inc. All Rights Reserved CPU Temperature 32°C/89°F System Temperature 32°C/89°F CPU Fan Speed 7123 RPM System Fan Speed 0 RPM Vcore 1.6 V Vdd 3.

3 V Vcc3 3.312 V +5.000V 5.030 V +12.000V 11.923 V ESC: Quit : Select Item F1 : Help PU/PD+/- : Modify F5 : Old Values (Shift)F2:Color F6 : Load Fail-Safe F8 : Flash Utility F7 : Load Optimized Figure 10: Hardware Monitor · CPU Temperature (°C / °F) ° Detect CPU Temperature automatically. System Temperature (°C / °F) ° Detect System Temperature automatically. · CPU Fan Speed Detect CPU Fan speed status automatically. · System Fan Speed Detect System Fan speed status automatically. · Current Voltage (V) Vcore / Vdd / Vcc3 / +5V / +12V Detect system's voltage status automatically.

62 7ZXE Motherboard Set Supervisor / User Password When you select this function, the following message will appear at the center of the screen to assist you in creating a password. AMIBIOS SIMPLE SETUP UTILITY-VERSION 1.24g (C) 1999 American Megatrends, Inc. All Rights Reserved STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP INTEGRATED PERIPHERALS HARDWARE MONITOR & MISC SETUP SUPERVISOR PASSWORD USER PASSWORD PNP/PCI CONFIGURATION IDE HDD AUTO DETECTION Enter new supervisor password: LOAD FAIL-SAFE DEFAULTS LOAD OPTIMIZED DEFAULTS SAVE & EXIT SETUP EXIT WITHOUT SAVING ESC : Quit : Select Item (Shift) F2 : Change Color F5 : Old Values F6 : Fail-Safe Value F7: Load Optimized Value F8:FlashUtility F10: Save & Exit Chang /Set /Disabled Password Figure 11: Password Setting Type the password, up to six characters, and press <Enter>. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a password. To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disable. Once the password is disable, the system will boot and you can enter Setup freely.

The BIOS Setup program allows you to specify two separate passwords: a SUPERVISOR PASSWORD and a USER PASSWORD. When disable, anyone may access all BIOS Setup program function. When enable, 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 "Always" at "Password Check" in BIOS Features Setup 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 BIOS Features Setup Menu, you will be prompted only when you try to enter Setup. 63 BIOS Setup IDE HDD AUTO Detection AMIBIOS SETUP STANDARD CMOS SETUP (C) 1999 American Megatrends, Inc. All Rights Reserved Date (mm/dd/yyyy) : Wed Jan 17, 2001 Time (hh/mm/ss) : 10:36:24 TYPE SIZE CYLS HEAD Pri Master : Not Installed Pri Slave : Not Installed Sec Master : Not Installed Sec Slave : Not Installed Floppy Drive A: 1.44 MB 3 ½ Floppy Drive B: Not Installed Boot Sector Virus Protection: Disabled Month: Jan Dec Day: 01 31 Year : 1990 2099 Base Memory : 640 Kb Other Memory: 384 Kb Extended Memory: 127Mb Total Memory: 128Mb ESC : Exit : Select Item PU/PD+/- : Modify (Shift)F2 : Color PRECOMP LANDZ SECTOR MODE Figure 12: IDE HDD Auto Detection Type "Y" will accept the H.



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D.D.

parameter reported by BIOS. Type "N" will keep the old H.D.D. parameter setup. If the hard disk cylinder number is over 1024, then the user can select LBA mode or LARGER mode for DOS partition larger than 528 MB. 64 7ZXE Motherboard Save & Exit Setup AMIBIOS SIMPLE SETUP UTILITY-VERSION 1.24g (C) 1999 American Megatrends, Inc. All Rights Reserved STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PNP/PCI CONFIGURATION LOAD FAIL-SAFE DEFAULTS LOAD OPTIMIZED DEFAULTS INTEGRATED PERIPHERALS HARDWARE MONITOR & MISC SETUP SUPERVISOR PASSWORD USER PASSWORD IDE HDD AUTO DETECTION SAVE & EXIT SETUP EXIT WITHOUT SAVING SAVE to CMOS and EXIT(Y/N)? Y ESC : Quit : Select Item (Shift) F2 : Change Color F5 : Old Values F6 : Fail-Safe Value F7: Load Optimized Value F8:FlashUtility F10: Save & Exit Save Data to CMOS & Exit Setup Figure 13: Save & Exit Setup Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS. Type "N" will return to Setup Utility.

65 BIOS Setup Exit Without Saving AMIBIOS SIMPLE SETUP UTILITY-VERSION 1.24g (C) 1999 American Megatrends, Inc. All Rights Reserved STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PNP/PCI CONFIGURATION LOAD FAIL-SAFEDEFAULTS LOAD OPTIMIZED DEFAULTS INTEGRATED PERIPHERALS HARDWARE MONITOR & MISC SETUP SUPERVISOR PASSWORD USER PASSWORD IDE HDD AUTO DETECTION SAVE & EXIT SETUP EXIT WITHOUT SAVING Quit without saving (Y/N) ? N ESC : Quit : Select Item (Shift) F2 : Change Color F5 : Old Values F6 : Fail-Safe Value F7: Load Optimized Value F8:FlashUtility F10: Save & Exit Abandon all Datas & Exit Setup Figure 14: Exit Without Saving Type "Y" will quit the Setup Utility without saving to RTC CMOS. Type "N" will return to Setup Utility. 66 7ZXE Motherboard Technical Support /RMA Sheet Customer/Country: Contact Person: Model name/Lot Number: BIOS version: Hardware Mjfs.

Configuration CPU Memory Brand Video Card Audio Card HDD CD-ROM / DVD-ROM Modem Network AMR / CNR Keyboard Mouse Power supply Other Device Company: E-mail Add. : Phone No.: PCB revision: O.S./A.

S.: Model name Size: Driver/Utility: Problem Description: 67 Appendix Appendix Picture below are shown in Windows ME (VUCD 1.8) Appendix A: VIA KT133/KM133 Chipsets Driver Installation A.VIA 4 in 1 Service Pack Driver Insert the driver CD-title that came with your motherboard into your CD-ROM driver, the driver CD-title will auto start and show the installation guide. If not, please double click the CD-ROM device icon in "My computer", and execute the setup.exe. 1.Click "VIA 4in 1 Service Pack Driver" item. (1) (2) 2.Click "Next" 3.

Click "Yes". (3) (4) 4.Click "Next". 5.Click "Next". (5) 68 (6) 7ZXE Motherboard 6.Click "Next". 7.Click "Next". (7) (8) 8.

Click "Finish" to restart computer. (9) (10) 69 Appendix Appendix B: VIA AC'97 Audio Driver Insert the driver CD-title that came with your motherboard into your CD-ROM driver, the driver CD-title will auto start and show the installation guide. If not, please double click the CD-ROM device icon in "My computer", and execute the setup.exe. @@This icon will be shown when driver is completely setup.

@@@Please enter your name and company name, then click "Next". 3.Click "Next". (4) (3) 5.Click "Next".

6.Click "Next". (5) (6) 71 Appendix 7. Click "Finish" to restart computer. (7) (8) 72 7ZXE Motherboard Appendix D: BIOS Flash Procedure BIOS update procedure: If your OS is Win9X, we recommend that you used Gigabyte @BIOS Program to flash BIOS. Press "Tools" icon. 2.Click "@BIOS Writer v1.06f". 1.

Click "Gigabyte Utilities". (1) Click Here. (2) Click " ". (3) Methods and steps: I. Update BIOS through Internet a. Click "Internet Update" icon b. Click "Update New BIOS" icon c. Select @BIOS sever ("Gigabyte @BIOS sever 1 in Taiwan" and "Gigabyte @BIOS sever 2 in Taiwan" are available for now, the others will be completed soon) d. Select the exact model name on your motherboard e. System will automatically download and update the BIOS.

73 Appendix II. Update BIOS NOT through Internet: a. Do not click "Internet Update" icon b. Click "Update New BIOS" c. @@d.

@@e. Complete update process following the instruction. III. @@It means to save the current BIOS version. IV.

@@It can help you check out which kind of motherboard and which brand of Flash ROM are supported. Note: a. In method I, if it shows two or more motherboard's model names to be selected, please make sure your motherboard's model name again. Selecting name will cause the system unbooted. b. In method II, be sure that motherboard's model name in BIOS unzip file are the same as your motherboard's. Otherwise, your system won't boot. c. In method I, if the BIOS file you need cannot be found in @BIOS server, please go onto Gigabyte's web site for downloading and updating it according to method II. d.

Please note that any intercorruption during updating will cause system unbooted 74 7ZXE Motherboard Or else you can select flash BIOS in DOS mode. Please check your BIOS vendor (AMI or AWARD), your motherboard name and PCB version on the motherboard. 1. 2. 3. 4. Format a bootable system floppy diskette by the command "format a:/s" in command mode. Visit the Gigabyte website at <http://www.gigabyte.com>.

tw, Select the BIOS file you need and download it to your bootable floppy diskette. Insert the bootable diskette containing the BIOS file into the floppy diskette driver. Assuming that the floppy diskette driver is A, reboot the system by using the A: driver. At the A: > prompt, run the BIOS upgraded file by executing the Flash BIOS utility and the BIOS file with its appropriate extension. Example: (AMI tool) (Where 7ZXE.

fl is name of the BIOS file name) A:>flashxxx.exe 7ZXE.fl Example: (Award tool) (Where 7ZXE.fl is name of the BIOS file name) A:>Awdflash.exe 7ZXE.

fl 5. Upon pressing the <Enter> key, a flash memory writer menu will appear on screen. Enter the new BIOS file name with its extension filename into the text box after file name to program. If you want to save the old BIOS file (perform as soon as system is operational, this is recommended), select Y to DO YOU

WANT TO SAVE BIOS, then type the old BIOS filename and the extension after filename to save: This option allows you to copy the contents of the flash memory chip onto a diskette, giving you a backup copy of the original motherboard BIOS in case you need to re-install it. Select N to DO YOU WANT TO SAVE BIOS, if you don't want to save the old BIOS file.



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After the decision to save the old BIOS file or not is made, select Y to ARE YOU SURE TO PROGRAM when the next menu appear; wait until a message showing Power Off or Reset the system appears. Then turn off your system. Remove the diskette and restart your system. Hold down <Delete> key to enter BIOS setup. You must select "Load Setup BIOS Default" to activate the new BIOS, then you may set other item from the main menu.

6. 7. 8. 9. 75 Appendix Appendix E: Acronyms Acronyms ACPI APM AGP AMR ACR BIOS CPU CMOS CRIMM CNR DMA DMI DIMM DRM DRAM DDR ECP ESCD ECC EMC EPP ESD FDD FSB HDD IDE IRQ I/O IOAPIC ISA LAN LBA LED MHz MIDI MTH MPT NIC OS Meaning Advanced Configuration and Power Interface Advanced Power Management Accelerated Graphics Port Audio Modem Riser Advanced Communications Riser Basic Input / Output System Central Processing Unit Complementary Metal Oxide Semiconductor Continuity RIMM Communication and Networking Riser Direct Memory Access Desktop Management Interface Dual Inline Memory Module Dual Retention Mechanism Dynamic Random Access Memory Double Data Rate Extended Capabilities Port Extended System Configuration Data Error Checking and Correcting Electromagnetic Compatibility Enhanced Parallel Port Electrostatic Discharge Floppy Disk Device Front Side Bus Hard Disk Device Integrated Dual Channel Enhanced Interrupt Request Input / Output Input Output Advanced Programmable Input Controller Industry Standard Architecture Local Area Network Logical Block Addressing Light Emitting Diode Megahertz Musical Interface Digital Interface Memory Translator Hub Memory Protocol Translator Network Interface Card Operating System To be continued... 76 7ZXE Motherboard Acronyms OEM PAC POST PCI RIMM SCI SECC SRAM SMP SMI USB VID Meaning Original Equipment Manufacturer PCI A.G.P. Controller Power-On Self Test Peripheral Component Interconnect Rambus in-line Memory Module Special Circumstance Instructions Single Edge Contact Cartridge Static Random Access Memory Symmetric Multi-Processing System Management Interrupt Universal Serial Bus Voltage ID 77 .



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