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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-8SIML. You'll find the answers to all your questions on the GIGABYTE GA-8SIML 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-8SIML
User guide GIGABYTE GA-8SIML
Operating instructions GIGABYTE GA-8SIML
Instructions for use GIGABYTE GA-8SIML
Instruction manual GIGABYTE GA-8SIML




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- Third-party brands and names are the property of their respective owners.
- Please do not remove any label on motherboard, this may void the warranty of this motherboard.
- Due to rapid change in technology, some of the specifications might be out of date before publication of this booklet.



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Manual abstract:

18, 2001 DECLARATION OF CONFIRMITY Per FCC Part 2 Section 2.1077(a) Responsible Party Name: G.B.T. INC. (U.S.A.) Address: 17358 Railroad Street City of Industry, CA 91748 Phone/Fax No: (818) 854-9338/(818) 854-9339 hereby declares that the product Product Name: Motherboard Model Number:GA-8S IML Conforms to the following specifications: FCC Part 15, Sub part 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.

Representative Person's Name: ERIC LU Signature: Eric Lu Date: Dec. 18,2001 GA-8SIML P4 Titan-DDR Motherboard USER' MANUAL S Pentium® 4 Processor Motherboard Rev 2001 12ME-8SIML-2001 English Table of Content Item Checklist ..

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To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer. 1. Unplug your computer when working on the inside. 2. 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. 3. Hold components by the edges and try not touch the IC chips, leads or connectors, or other components. 4. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.

5. Ensure that the ATX power supply is switched off before you plug in or remove the ATX power connector on the motherboard. 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. GA-8SIML Motherboard -4- Chapter 1 Introduction Features Summary Form Factor CPU -- 22.9cm x 24.3cm Micro ATX size form factor, 4 layers PCB. -- Socket 478 for Intel® Micro FC-PGA2 Pentium® 4 processor ----- On-Board Peripherals ----- Support Intel® Pentium® 4 (Northwood, 0.13 m) processor Intel Pentium® 4 400MHz FSB 2nd cache depends on CPU SiS 650 Host/Memory controller(**) SiS 650GX Host/Memory controller(***) SiS 961 MuTIOL Media I/O 2 184-pin DDR DIMM sockets Supports DDR266/200 SDRAM Supports up to 2 un-buffer Double-sided DIMM DDR266/200 Supports up to 2GB DDR DRAM (Max) Supports only 2. 5V DDR DIMM Supports 64bit DRAM integrity mode W83697HF 1 Universal AGP slot (1X/2X/4X) device support 3 PCI slot supports 33MHz & PCI 2.2 compliant 1 CNR(Communication and Networking Riser) Slot 2 IDE bus master (UDMA33/ATA66/ATA100) IDE ports for up to 4 ATAPI devices Supports PIO mode3,4 (UDMA 33/ATA66/ATA100) IDE & ATAPI CD-ROM 1 Floppy port supports 2 FDD with 360K, 720K,1.2M, 1.44M and 2.88M bytes. 1 Parallel port supports Normal/EPP/ECP mode 1 Serial port (COMA),1 VGA port, COMB on board 4 USB ports (Rear USB x 2,by optional cable) 1 Front Audio Connector* 1 Serial IRQ Connector** 1 IrDA connector for IR** to be continued..... English Chipset Memory I/O Control Slots On-Board IDE *For PCB 1.1& 2.0 ver only **For PCB 1.0& 1.

1 ver only ***For PCB 2.0 ver only -5Introduction English Hardware Monitor On-Board Sound On-Board LAN On-Board VGA PS/2 Connector BIOS Additional Features ----- CPU/System Fan Revolution detect CPU/System Fan Control CPU Overheat Warning System Voltage Detect Sigmatel 9721 CODEC(***) Realtek 201A CODEC(**) Line In/Line Out/Mic In/CD In/ AUX_IN***/SPDIF** /Game Port Built in RTL8100L Chipset(**) Built in RTL8100BL Chipset(***) 1 RJ45 port Built in SiS650 Chipset(**) Built in SiS650GX Chipset(***) PS/2 Keyboard interface

and PS/2 Mouse interace Licensed Award BIOS, 2M bit Flash ROM (***) Licensed AMI BIOS, 2M bit Flash ROM(**) PS/2 Keyboard power on by password PS/2 Mouse power on STR(Suspend-To-RAM) AC Recovery USB KB/Mouse wake up from S3 Supports EasyTune III Supports @BIOS Please set the CPU host frequency in accordance with your processor' specifications. s We don' recommend you to set the system bus frequency over the CPU' specification t s because these specific bus frequencies are not the standard specifications for CPU, chipset and most of the peripherals. Whether your system can run under these specific bus frequencies properly will depend on your hardware configurations, including CPU, Chipsets,SDRAM,Cards... .etc. *For PCB 1.1& 2.0 ver only **For PCB 1.0& 1.1 ver only ***For PCB 2.0 ver only GA-8SIML Motherboard -6- GA-8SIML Motherboard Layout English CPU_FAN KB_MS USB/ LAN ATX_12V DIMM_LED COMA VGA LPT AUX_IN*** CD_IN MIC_IN LINE_OUT LINE_IN SiS 650GX***/ SiS 650** GAME F_AUDIO* SPDIF** RTL8100 GA-8SIML AGP DDR2 DDR1 IDE2 IDE1 Buzzer FDD ATX PCI1 SiS 961 CI F_USB F_PANEL SOCKET478 AC97 W83697HF PCI2 S_IRQ** BATTERY PCI3 CNRindustry that builds on the existing SDRAM infrastructure, yet makes awesome advances in solving the system performance bottleneck by doubling the memory bandwidth.



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DDR SDRAM will offer a superior solution and migration path from existing S DRAM designs due to its availability, pricing and overall market support. PC2100 DDR memory (DDR266) doubles the data rate through reading and writing at both the rising and falling edge of the clock, achieving data bandwidth 2X greater than PC133 when running with the same DRAM clock frequency. With peak bandwidth of 2.1GB per second, DDR memory enables system OEMs to build high performance and low latency DRAM subsystems that are suitable for servers, workstations, highend PC 's and v alue desktop SM A sy stems.

With a core voltage of only 2.5 Volts compared to conventional SDRAM's 3.

3 volts, DDR memory is a compelling solution for small form factor desktops and notebook applications. Step 3: Install expansion cards 1. Read the related expansion card' instruction document before install the expansion card into s the computer. 2. Remove your computer' chassis cover, necessary screws and slot bracket from the computer. s 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' chassis cover. s 7. Power on the computer, if necessary, setup BIOS utility of expansion card from BIOS. 8. Install related driver from the operating system. AGP Card Please carefully pull out the small whitedrawable bar at the end of the AGP slot when you try to install/ Uninstall the AGP card. Please align the AGP card to the onboard AGP slot and press firmly down on the slot . Make sure your AGP card is locked by the small white- drawable bar.

GA-8SIML Motherboard - 12 - Step 4: Connect ribbon cables, cabinet wires, and power supply Step4-1:I/O Back Panel Introduction u v w x English y u PS/2 Keyboard and PS/2 Mouse Connector PS/2 Mouse Connector (6 pin Female) PS/2 Keyboard Connector (6 pin Female) ØThis connector supports standard PS/2 keyboard and PS/2 mouse. v USB & LAN Connector LAN USB 0 USB 1 ØBefore 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 (Win 95 with USB supplement, Win98, Windows 2000, Windows ME, Win NT with SP 6) 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. - 13 - Hardw are Installation Process English w Parallel Port , Serial Port and VGA Port (LPT/COMA/VGA) Parallel Port (25 pin Female) ØThis connector supports 1 standard COM port ,1 Parallel port and 1 VGA port. Device like printer can be connected to Parallel port ; mouse and modem etc can be connected to Serial ports.

VGA COMA Serial Port (9 pin Male) VGA Port (15 pin Female) x Game /MIDI Ports ØThis connector supports joystick, MIDI keyboard and other relate audio devices. Joystick/ MIDI (15 pin Female) y Audio Connectors Ø After install onboard audio driver, you may connect speaker to Line Out jack, microphone to MIC In jack. Device like CD-ROM , walkman etc can be connected to Line-In jack. Line Out Line In MIC In GA-8SIML Motherboard - 14 - Step 4-2 : Connectors Introduction A B English C S R Q P O N D E F G H M LK J I A) ATX_12V B) CPU_FAN C) ATX D) IDE1/IDE2 E) FLOPPY F) IR** G) CLR_CMOS** H) SYS_FAN I) CI J) F_PANEL K) F_USB L) BATTERY M) COMB N) BIOS_WP** O) S_IRQ** P) SPDIF** Q) F_AUDIO * R) CD_IN S) AUX_IN** *For PCB 1.1& 2.0 ver only **For PCB 1.0& 1.1 ver only ***For PCB 2.0 ver only - 15 Hardw are Installation Process English A) ATX_12V (+12V Power Connector) 34 +12V GND 12 +12V GND ØThis connector (ATX +12V) supplies the CPU operation voltage (Vcore). If this " ATX+ 12V connector" is not connected, system cannot boot.

B) CPU_FAN (CPU FAN Connector) Sense +12V/Control GND Ø Please note, a proper installation of the CPU cooler is essential to prevent the CPU from running under abnormal condition or damaged by overheating.The CPU fan connector supports Max. current up to 600 mA. 1 H) SYS_FAN (System FAN Connector) 1 Sense +12V/Control GND I) CI (CASE OPEN) Ø This 2 pin connector allows your system to enable or disable the system alarm if the system case begin remove. GND Signal 1 GA-8SIML Motherboard - 16 - E) FDD (Floppy Connector) English 1 Ø Important Notice: Please connect first harddisk to IDE1 and connect CDROM to IDE2. D) IDE1/ IDE2 (IDE1/IDE2 Connector) 1 IDE1 IDE2 1 Q) F_AUDIO (Front Audio Connector)* Ø If you want to use "Front Audio" connector, 1 you must move 3-4,5-6 Jumper. In order to utilize the front audio header, your chassis must GND have front audio connector. Also please make Rear Audio (R) Rear Audio (L) sure the pin assignment on the cable is the same as the pin assignment on the MB header. To find out if the chassis you are buying support front audio connector, please contact your dealer. MIC Front Audio (R) Front Audio (L) GND *For PCB 1.

1 & 2.0 ver only **For PCB 1.0& 1.1 ver only ***For PCB 2.0 ver only - 17 Hardw are Installation Process English R) CD_IN (CD Audio Line In) CD-R GND CD-L 1 S) AUX_IN (AUX In Connector)** AUX-R GND AUX-L 1 P)SPDIF** VCC SPDIF Out GND 1 Ø The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder.

Use this feature only when your stereo system has digital output function. O) S_IRQ ** (For special design, for example: PCMCIA add on card) Signal GND 1 *For PCB 1.1& 2.0 ver only **For PCB 1.0& 1.

1 ver only **For PCB 2.0 ver only GA-8SIML Motherboard - 18 - C) ATX (ATX Power) 20 +12V 5V SB (Stand by +5V) Power Good GND VCC GND VCC GND 3.3V 3.3V 1 ØAC power cord should only be connected to VCC VCC -5V GND GND GND PS-ON(SoftOn/Off) GND -12V 3.3V your power supply unit after ATX power cable and other related devices are firmly connected to the mainboard. English J) F_USB (Front USB Connector) USB 3+ USB 3Power GND Ø Be careful with the polarity of the front panel USB connector. Check the pin assignment while you connect the front panel USB cable. Please contact your nearest dealer for optional front panel USB cable. 1 Power USB 2USB 2+ GND F)IR ** 1 VCC(+5V) IR Data Input GND IR Data Output Ø Be careful with the polarity of the IR connectorwhile you connect the IR. Please contact your nearest dealer for optional IR device.

*For PCB 1.1& 2.0 ver only **For PCB 1.0& 1.1 ver only ***For PCB 2.0 ver only - 19 Hardw are Installation Process English N) BIOS_WP** (BIOS Write Protection) 2-3 close: Normal 1 1-2 close: Write Protection 1 Ø Please note, To flash/upgrade BIOS on this MB BIOS_WP must be set to 2-3 close.



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We recommend BIOS_WP to be set to "1-2 close", whenever user does not need to flash/upgrade the BIOS. G) CLR_CMOS*** (Clear CMOS) 1 2-3 close: Normal Ø You may clear the CMOS data to its default values by this jumper. 1 1-2 close: Clear CMOS M) COM B NSINB NDRBND SRBNCTSBNC 1 *For PCB 1.1 & 2.

0 ver only **For PCB 1.0 & 1.1 ver only **For PCB 2.0 ver only GA-8SIML Motherboard - 20 - NDCDBNSOUTB GND NR TSB NRIB- J) F_PANEL (2x7 pins jumper) RSTRST+ SPK+ 1 SPK- English HD- 2 1 PD+ PD_GPD_Y1 HD+ 14 13 HD (IDE Hard Disk Active LED) Pin 1: LED anode(+) Pin 2: LED cathode(-) SPK (Speaker Connector) Pin 1: VCC(+) Pin 2- Pin 3: NC Pin 4: Data(-) RST (Reset Switch) Open: Normal Operation Close: Reset Hardware System PD+/PD_G-/PD_Y-(Power LED) Pin 1: LED anode(+) Pin 2: LED cathode(-) Pin 3: LED cathode(-) PW (Soft Power Connector) Open: Normal Operation Close: Power On/Off Ø 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 above. PW+ PW- L) Battery CAUTION + v Danger of explosion if battery is incorrectly replaced.

v Replace only with the same or equivalent type recommended by the manufacturer. v Dispose of used batteries according to the manufacturer's instructions. s - 21 - Hardw are Installation Process English Chapter 3 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 <á> <â> <β> <à> <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 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 value from CMOS, only for Option Page Setup Menu Load the file-safe default CMOS value from BIOS default table Load the Optimized Defaults Dual BIOS/Q-Flash function Reserved Save all the CMOS changes, only for Main Menu <+/PgUp> Increase the numeric value or make changes <-/PgDn> <F1> <F2> <F3> <F4> <F5> <F6> <F7> <F8> <F9> <F10> GA-8SIML Motherboard - 22 - GETTING HELP Main Menu The on-line description of the highlighted setup function is displayed at the bottom of the screen. English 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 Ver. :FC) If you want detail data setting before "BIOS ver FC", please download the manual from Gigabyte web <http://www.gigabyte.com.tw>. Once you enter Award BIOS CMOS Setup Utility, the Main Menu (Figure 1) will appear on the screen.

The Main Menu allows you to select from eight setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu. CMOS Setup Utility - Copy right (C) 1984-2002 Award Softw are }Standard CMOS Features }Advanced BIOS Features }Advanced Chipset Features }Integrated Peripherals }Power Management Setup }PnP/PCI Configurations }PC Health Status ESC:Quit F8: Q-Flash }Frequency /Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving higf:Select Item F10:Save & Exit Setup Time, Date, Hard Disk Type... Figure 1: Main Menu l l l Standard CMOS Features This setup page includes all the items in standard compatible BIOS. Advanced BIOS Features This setup page includes all the items of Award special enhanced features. Advanced Chipset Features This setup page includes all the items of chipset special features. - 23 - BIOS Setup English l l l l l 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 Configurations This setup page includes all the configurations of PCI & PnP ISA resources. PC Health Status This setup page is the System auto detect Temperature, voltage, fan, speed. Frequency/Voltage Control This setup page is control CPU' clock and frequency ratio. s Load Fail-Safe Defaults Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration. l Load Optimized Defaults Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration.

l Set Supervisor or password Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup. l l l 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. GA-8SIML Motherboard - 24 - English Standard CMOS Features CMOS Setup Utility - Copy right (C) 1984-2002 Award Softw are Standard CMOS Features Date (mm:dd:yy) Time (hh:mm:ss) }IDE Primary Master }IDE Primary Slave }IDE Secondary Master }IDE Secondary Slave Drive A Drive B Floppy 3 Mode Support Halt On Base Memory Extended Memory Total Memory Fir, Jan 25 2002 22:31:24 [None] [None] [None] [None] [1.44M, 3.5 in.] [None] [Disabled] <Day> [All, But Keyboard] 640K 130048K 131072K F1:General Help 1 to 31 (or maximum allowed in the month) <Year> 1999 to 2098 <Week> Sun. to Sat. <Month> Jan. to Dec. Item Help Menu Level u Change the day, month, year and century higf: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults Figure 2: Standard CMOS Features C Date The date format is <week>, <month>, <day>, <year>. 8Week 8Month 8Day 8Year The week, from Sun to Sat, determined by the BIOS and is display only The month, Jan.

Through Dec. The day, from 1 to 31 (or the maximum allowed in the month) The year, from 1999 through 2098 - 25 - BIOS Setup English C Time The times format in <hour> <minute> <second>. The time is calculated base on the 24-hour militarytime clock. For example, 1 p.m. is 13:00:00. C IDE Primary Master, Slave / IDE Secondary Master, Slave The category identifies the types of hard disk from drive C to F that has been installed in the computer.



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There are two types: auto type, and manual type. Manual type is user-definable; Auto type which will automatically detect HDD 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. If you select User Type, related information will be asked to enter to the following items. Enter the information directly from the keyboard and press <Enter>. Such information should be provided in the documentation form your hard disk vendor or the system manufacturer. 8CYLS.

8HEADS 8PRECOMP 8LANDZONE Number of cylinders Number of heads Write precomp Landing zone 8SECTORS Number of sectors If a hard disk has not been installed select NONE and press <Enter>. C Drive A / Drive B The category identifies the types of floppy disk drive A or drive B that has been installed in the computer. 8None 8360K, 5.25 in. 81.

2M, 5.25 in. No floppy drive installed 5.25 inch PC-type standard drive; 360K byte capacity . 5.25 inch AT-type high-density drive; 1.2M byte capacity (3.5 inch when 3 Mode is Enabled). 8720K, 3.5 in.

81.44M, 3.5 in. 82.88M, 3.5 in. 3.5 inch double-sided drive; 720K byte capacity 3.5 inch double-sided drive; 1.44M byte capacity .

3.5 inch double-sided drive; 2.88M byte capacity . GA-8SIML Motherboard - 26 - C Floppy 3 Mode Support (for Japan Area) 8Disabled 8Drive A 8Drive B 8Both 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. English C Halt on The category determines whether the computer will stop if an error is detected during power up. 8NO Errors 8All Errors 8All, But Keyboard The system boot will not stop for any error that may be detected and you will be prompted. Whenever the BIOS detects a non-fatal error the system will be stopped.

The system boot will not stop for a keyboard error; it will stop for all other errors. (Default value) 8All, But Diskette The system boot will not stop for a disk error; it will stop for all other errors. 8All, But Disk/Key The system boot will not stop for a keyboard or disk error; it will stop for all other errors. C 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 512 K for systems with 512 K memory installed on the motherboard, or 640 K for systems with 640 K 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. - 27 - BIOS Setup English Advanced BIOS Features CMOS Setup Utility - Copyright (C) 1984-2002 Award Software Advanced BIOS Features BIOS Flash Protection First Boot Device Second Boot Device Third Boot Device Boot Up Floppy Seek Boot Up Num-Lock Password Check Interrupt Mode HDD S.M.

A.R.T. Capability [Auto] [Floppy] [HDD-0] [CDROM] [Disabled] [On] [Setup] [APIC] [Disabled] [Auto] Allows BIOS to update flash data during POST.

It still prevents other unauthorized utilities to update flash [Enabled] Always prevent BIOS and unauthorized utilities to update flash high: Move Enter: Select +/-/PU/PD: Value F5: Previous Values F10: Save ESC: Exit F1: General Help F6: Fail-Safe Defaults F7: Optimized Defaults Item Help Menu Level u Figure 3: Advanced BIOS Features C BIOS Flash Protection This field lets you determine the states that flash BIOS 8Auto 8Enabled BIOS enables flash write access automatically when updating BIOS data/DMI/ESCD. (Default Value) During POST, DMI/ESCD would not be updated. But flash tools can update BIOS always. C First / Second / Third Boot Device This feature allows you to select the boot device priority. 8Floppy Select your boot device priority by Floppy . GA-8SIML Motherboard - 28 - 8LS120 8HDD-0~3 8SCSI 8CDROM 8ZIP 8USB-FDD 8USB-ZIP 8USB-HDD 8LAN 8Disabled Select your boot device priority by LS120.

Select your boot device priority by HDD-0~3. Select your boot device priority by SCSI. Select your boot device priority by CDROM. Select your boot device priority by ZIP. Select your boot device priority by USB-FDD.

Select your boot device priority by USB-ZIP. Select your boot device priority by USB-HDD. Select your boot device priority by LAN. Select your boot device priority by Disabled. English 8USB-CDROM Select your boot device priority by USB-CDROM.

C Boot Up Floppy Seek During POST, BIOS will determine the floppy disk drive installed is 40 or 80 tracks. 360 K type is 40 tracks 720 K, 1.2 M and 1.44 M are all 80 tracks. 8Enabled BIOS searches for floppy disk drive to determine it is 40 or 80 tracks. Note that BIOS can not tell from 720 K, 1.2 M or 1.44 M drive type as they are all 80tracks. 8Disabled 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 K.

(Default value) C BootUp Num-Lock When set On, allows the BIOS to automatically enable the Num Lock Function when the system boots up. 8On 8Off Key pad is number keys. (Default value) Key pad is arrow keys. C Password Check This feature allows you to limit access to the system and Setup, or just to Setup. Please refer to the detail on P.48 8System 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. - 29 - BIOS Setup English 8Setup The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt. (Default value) C Interrupt Mode 8APIC 8PIC Through IOAPIC generate more IRQ for system use. (Default value) Use AT standard IRQ controller to generate IRQ. When you already have IOAPIC enable system and want to upgrade the system please note, since running an IOAPIC enabled OS (like Windows NT, Windows 2000, Windows XP.

..) system with none IOAPIC HW support will cause the system to hang. Following are some situations users might run into: 1. An IOAPIC enabled OS and change the BIOS setting from IOAPIC to PIC, this will cause your system to hang.

) C HDD S.M.A.R.T Capability S.

M.A.R.T. stands for Self-Monitoring and Analysis Reporting Technology which allows your hard disk drive to report any read/write errors and issue a warning with LDCM installed. 8Enabled 8Disabled Enable HDD S.M.A.R.T.

Capability . Disable HDD S.M.A.R.T. Capability . (Default value) GA-8SIML Motherboard - 30 - English Advanced Chipset Features We would not suggest you change the chipset default setting unless you really need it. CMOS Setup Utility - Copyright (C) 1984-2002 Award Software Advanced Chipset Features Top Performance Configure DRAM Timing x CAS Latency Setting x DRAM RAS Activate Time x DRAM RAS Precharge Time x DRAM RAS to CAS Delay AGP Aperture Size [Disabled] [Auto] Auto 6T 3T 3T [64MB] Item Help Menu Level u high: Move Enter: Select F5: Previous Values +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F6: Fail-Safe Defaults F7: Optimized Defaults Figure 4: Advanced Chipset Features C Top Performance If you wish to maximize the performance of your system, set "Top Performance" as "Enabled".



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8Disabled 8Enabled Disable this function.

(Default Value) Enable Top Performance function. C Configure DRAM Timing Warning: Wrong DRAM Timing may make system can't boot. Clear CMOS to overcome wrong Timing issue 8Auto 8Manual Will be automatically detected by BIOS. (Default Value) Set Configure DRAM Timing to Manual. C CAS Latency Setting This feature allows you to select the CAS latency Time, When any DDR DIMM installed.

82T 82.5T 83T 84Auto Set CAS Latency Setting to 2T. Set CAS Latency Setting to 2.5T. Set CAS Latency Setting to 3T.

Will be automatically detected by BIOS. (Default Value) - 31 - BIOS Setup English C DRAM RAS Active Time 84T 85T 86T 87T Set DRAM RAS Active Time to 4T. Set DRAM RAS Active Time to 5T. Set DRAM RAS Active Time to 6T. (Default Value) Set DRAM RAS Active Time to 7T. C DRAM RAS Precharge Time This feature allows you to set the DRAM RAS# Precharge Time. 82T 83T 84T Set DRAM RAS Precharge Time to 2T. Set DRAM RAS Precharge Time to 3T. (Default Value) Set DRAM RAS Precharge Time to 4T. C DRAM RAS to CAS Delay This feature allows you to set the delay time that from the DRAM RAS# active to CAS#.

82T 83T 84T Set DRAM RAS to CAS Delay to 2T. Set DRAM RAS to CAS Delay to 3T. (Default Value) Set DRAM RAS to CAS Delay to 4T. C AGP Aperture Size (This feature allows you to select the main memory frame size for AGP use) 84MB 88MB 816MB 832MB 864MB 8128MB 8256MB AGP Aperture Size is 4MB. AGP Aperture Size is 8MB. AGP Aperture Size is 16MB. AGP Aperture Size is 32MB. AGP Aperture Size is 64MB. (Default Value) AGP Aperture Size is 128MB. AGP Aperture Size is 256MB.

GA-8SIML Motherboard - 32 - English Integrated Peripherals CMOS Setup Utility - Copy right (C) 1984-2002 Award Software Integrated Peripherals IDE1 Conductor Cable IDE2 Conductor Cable On-Chip Primary PCI IDE On-Chip Secondary PCI IDE AC97 Audio AC97 Modem System share Memory Size USB Controller USB Legacy Support Onboard LAN Function Init Display First Onboard FDC Onboard Serial Port A Onboard Serial Port B Serial Port B Mode Onboard Parallel Port Parallel Port Mode 8EPP Mode Select ECP Mode Use DMA Game Port Address Midi Port Address Midi Port IRQ high: Move Enter: Select +/- /PU/PD: Value F5: Previous Values [Auto] [Auto] [Enabled] [Enabled] [Enabled] [32MB] [Enabled] [Disabled] [Enabled] [AGP] [Enabled] [3F8/IRQ4] [2F8/IRQ3] [Normal] [378/IRQ7] [ECP] EPP1.7 [3] [201] [330] [10] F10: Save ESC: Exit F1: General Help F6: Fail-Safe Defaults Figure 5: Integrated Peripherals F7: Optimized Defaults [ATA33] Set Conductor cable to ATA33 [ATA66/100] Set Conductor cable to ATA66/100 Item Help Menu Level u [Auto] Auto-detect IDE cable type - 33 - BIOS Setup English C IDE1 Conductor Cable 8Auto 8ATA66/100 8ATA33 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). C IDE2 Conductor Cable 8Auto 8ATA66/100 8ATA33 Will be automatically detected by BIOS.

(Default Value) Set IDE2 Conductor Cable to ATA66/100 (Please make sure your IDE device and cable is compatible with ATA66/100). Set IDE2 Conductor Cable to ATA33 (Please make sure your IDE device and cable is compatible with ATA33). C On-Chip Primary PCI IDE When enabled, allows you to use the onboard primary PCI IDE. 8Enabled 8Disabled Enable onboard 1st channel IDE port. (Default Value) Disable onboard 1st channel IDE port. C On-Chip Secondary PCI IDE When enabled, allows you to use the onboard secondary PCI IDE. 8Enabled 8Disabled Enable onboard 2nd channel IDE port. (Default Value) Disable onboard 2nd channel IDE port. C AC97 Audio 8Enabled 8Disabled Enable onboard AC'97 audio function. (Default Value) Disable this function. C AC97 Modem 8Enabled BIOS will search MC97 Codec (AMR Modem Card). If found, MC97 function will be enabled. If no MC97 Codec found, MC97 function will be disabled. (Default Value) 8Disabled Disable this function. GA-8SIML Motherboard - 34 - C Share Memory Size 84MB/8MB/16MB/32MB/64MB Set onchip VGA shared memory size.

(Default Value: 32MB) English C USB Controller Disable this option if you are not using the onboard USB feature. 8Enabled 8Disabled Enable USB Controller. (Default Value) Disable USB Controller. C USB Legacy Support 8Enabled 8Disabled Enable USB Legacy Support. Disable this function. (Default Value) C Onboard Lan 8Disabled 8Enabled Disable this function. Enable Onboard Lan Chip function. (Default Value) C Init Display First This feature allows you to select the first initiation of the monitor display from which card, when you install an AGP VGA card and a PCI VGA card on board. 8PCI 8AGP Set Init Display First to PCI Slot. Set Init Display First to AGP.

(Default Value) C OnBoard FDC When enabled, the floppy diskette drive (FDD) controller is activated. 8Disabled 8Enabled Disable this function. Enable onboard floppy disk controller. (Default Value) C Onboard Serial Port A 8Auto 83F8/IRQ4 82F8/IRQ3 83E8/IRQ4 82E8/IRQ3 8Disabled BIOS will automatically setup the port A address. Enable onboard Serial port A and using daddress 3F8, IRQ4.

(Default Value) Enable onboard Serial port A and using daddress 2F8, IRQ3. Enable onboard Serial port A and using daddress 3E8, IRQ4. Enable onboard Serial port A and using daddress 2E8, IRQ3. Disable onboard Serial port A. - 35 - BIOS Setup English C Onboard Serial Port B 8Auto 83F8/IRQ4 82F8/IRQ3 83E8/IRQ4 82E8/IRQ3 8Disabled BIOS will automatically setup the port B address.

Enable onboard Serial port B and using daddress Enable onboard Serial port B and using daddress Enable onboard Serial port B and using daddress Enable onboard Serial port B and using daddress Disable onboard Serial port B. 3F8, 2F8, 3E8, 2E8, IRQ4. IRQ3. (Default Value) IRQ4. IRQ3. C Serial Port B Mode (This item allows you to select the IR modes if the serial port B is used as an IR port. Set at Normal, if you use COM2 as the serial port as the serial port, instead as an IR port.) 8ASKIR 8IrDA 8Normal Set onboard I/O chip UART to ASKIR Mode. Set onboard I/O chip UART to IrDa Mode. Set onboard I/O chip UART to Normal Mode.

@@Enable On Board LPT port and using address 3BC, IRQ7. @@Using Parallel port as Enhanced Parallel Port. @@@@Set OnBoard Game Port to 201h. @@Set onboard Midi Port to 300h. Set onboard Midi Port to 330h. @@@@ (Default Value) Set MODEM Use IRQ to 3. Set MODEM Use IRQ to 4. Set MODEM Use IRQ to 5. @@@@Set MODEM Use IRQ to 10. @@@@ @@@@Enable this function.

@@@Enable Modem Ring on/wake on Lan. @@@@Disable USB Device Wakeup. @@@@8Disabled 8Enabled Disable this function. @@@@BIOS automatically use these PnP rescuers. @@@@ (Default Value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI1/5.

C PCI3 IRQ Assignment 8Auto 83,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI3. (Default Value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI2/6.



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GA-8SIML Motherboard - 42 - English PC Health Status CMOS Setup Utility -Copy right (C) 1984-2001 Award Software PC Health Status Reset Case Open Status Case Status VCore +3.3V +5V +12V Current System Temp. Current CPU Temperature Current CPU Fan Speed Current System Fan Speed CPU Warning Temperature System Fan Fail Warning CPU Fan Fail Warning High: Move [Disabled] [No] 1.
71V 3.29V 4.99V 11.73V 27°C/80°F 25°C/77°F 4821 RPM 0 RPM [Disabled] [Disabled] [Disabled] Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help Item Help Menu Level u F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults Figure 8: PC Health Status C Reset Case Open Status C Case Status If the case is closed, "Case Status" will show "Closed". If the case has been opened, "Case Status" will show "Opened". If you want to reset "Case Status" value, set "Reset Case Open Status" to "Yes" and save CMOS, your computer will restart. C Current Voltage (V) VCore / +3.3V / +5 V / +12V 8Detect system voltage status automatically. s - 43 - BIOS Setup English C Current System Temperature 8Detect System Temp. automatically.

C Current CPU Temperature 8Detect CPU Temp. automatically. C Current CPU Fan / System Fan Fan Speed (RPM) 8Detect Fan speed status automatically. C CPU Warning Temperature 860°C / 140°F Monitor CPU Temp. at 60°C / 140°F. 870°C / 158°F Monitor CPU Temp. at 70°C / 158°F. 880°C / 176°F Monitor CPU Temp. at 80°C / 176°F. 890°C / 194°F Monitor CPU Temp.

at 90°C / 194°F. 8Disabled Disable this function.(Default value) C Fan Fail Alarm CPU/System 8No 8Yes Fan Fail Alarm Function Disable. (Default Value) Fan Fail Alarm Function Enable. GA-8SIML Motherboard - 44 - English Frequency/Voltage Control CMOS Setup Utility -Copy right (C) 1984-2002 Award Software Frequency /Voltage Control CPU Clock Ratio Linear Frequency Control Y CPU Clock Y DRAM Clock (MHz) [15X] [Disabled] 100 N/A N/A N/A Item Help Menu Level u Y AGP Clock (MHz) Y PCI Clock (MHz) High: Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults Figure 9: Frequency /Voltage Control Note: If system hangs up before enter CMOS setup utility, wait for 20 sec for times out reboot.

When time out occur, system will reset and run at CPU default Host clock at next boot. Y Those items will be available when "Linear Frequency Control" is set to Enabled. C CPU Clock Ratio 88X~24X It depends on CPU Clock Ratio. s C Linear Frequency Control When set to "Enabled", you can adjust CPU / DRAM / AGP / PCI linear frequency. For power End-User use only.

8Disabled 8Enabled Disable this function. (Default value) Enable this function. - 45 - BIOS Setup English C DRAM Clock (MHz) This feature allows you to adjust the DRAM frequency, When "Linear Frequency Control" is set to Enabled. 8Please set DRAM Clock according to your requirement. If you use DDR200 DRAM module, please set "DRAM Clock(MHz)" to 100. If you use DDR333 DRAM module, please set "DRAM Clock(MHz)" to 166. Incorrect using it may cause your system broken. For power End-User use only ! C AGP Clock (MHz) This feature allows you to adjust the AGP frequency, When "Linear Frequency Control" is set to Enabled. 8Please set AGP Clock according to your requirement. Incorrect using it may cause your system broken.

For power End-User use only ! C PCI Clock (MHz) This feature allows you to adjust the PCI frequency, When "Linear Frequency Control" is set to Enabled. 8Please set PCI Clock according to your requirement. Incorrect using it may cause your system broken. For power End-User use only ! GA-8SIML

Motherboard - 46 - English Load Fail-Safe Defaults CMOS Setup Utility -Copy right (C) 1984-2002 Award Software }Standard CMOS Features }Advanced BIOS Features }Advanced Chipset Features }Integrated Peripherals }Power Management Setup }PC Health Status ESC:Quit F8: Q-Flash }Frequency /Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password }PnP/PCI Configurations Save & Exit Setup Load Fail-Safe Defaults?e(Y/N)?Y Exit Without Saving High:Select Item F10:Save & Exit Setup Load Fail-Safe Defaults Figure 10: Load Fail-Safe Defaults Load Fail-Safe Defaults Fail-Safe defaults contain the most appropriate values of the system parameters that allow minimum system performance. - 47 - BIOS Setup English Load Optimized Defaults CMOS Setup Utility -Copy right (C) 1984-2002 Award Software }Standard CMOS Features }Advanced BIOS Features }Advanced Chipset Features }Integrated Peripherals }Power Management Setup }PnP/PCI Configurations }PC Health Status ESC:Quit F8: Q-Flash }Frequency /Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving High:Select Item F10:Save & Exit Setup Load Optimized Defaults Figure 11: Load Optimized Defaults Load Optimized Defaults? (Y/N)?Y Load Optimized Defaults Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects.

GA-8SIML Motherboard - 48 - English Set Supervisor/User Password CMOS Setup Utility -Copy right (C) 1984-2002 Award Software }Standard CMOS Features }Advanced BIOS Features }Advanced Chipset Features }Integrated Peripherals }Power Management Setup }PnP/PCI Configurations Enter Password: }PC Health Status ESC:Quit F8: Q-Flash }Frequency /Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving High:Select Item F10:Save & Exit Setup Change/Set/Disable Password Figure 12: Password Setting When you select this function, the following message will appear at the center of the screen to assist you in creating a password. Type the password, up to eight characters, and press <Enter>. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a password.

To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disabled. Once the password is disabled, the system will boot and you can enter Setup freely. The BIOS Setup program allows you to specify two separate passwords: SUPERVISOR PASSWORD and a USER PASSWORD. When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items.



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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. - 49 - BIOS Setup English Save & Exit Setup CMOS Setup Utility - Copy right (C) 1984-2002 Award Software }Standard CMOS Features }Advanced BIOS Features }Advanced Chipset Features }Integrated Peripherals }Power Management Setup }PC Health Status ESC:Quit F8: Q-Flash }Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password }PnP/PCI Configurations Save (Y/N)? Y Save to CMOS and EXIT & Exit Setup Exit Without Saving High>Select Item F10:Save & Exit Setup Save Data to CMOS 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.

GA-8SIML Motherboard - 50 - English Exit Without Saving CMOS Setup Utility - Copy right (C) 1984-2002 Award Software }Standard CMOS Features }Advanced BIOS Features }Advanced Chipset Features }Integrated Peripherals }Power Management Setup }PC Health Status ESC:Quit F8: Q-Flash }Frequency/Voltage Control Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password }PnP/PCI Configurations Without Saving (Save & N it Setup Quit Y/N)? Exit Without Saving High>Select Item F10:Save & Exit Setup Abandon all Data Figure 14: Exit Without Saving Type "Y" will quit the Setup Utility without saving to RTC CMOS. Type "N" will return to Setup Utility. - 51 - BIOS Setup English Revision History Chapter 4 Technical Reference Block Diagram Pentium 4 Socket 478 CPU AGP 1X/2X/4X AGPCLK (66MHz) System Bus 100MHz DDR 100/133MHz SDRAM 650/650GX ZCLK (66MHz) HCLK+/- (100MHz) 3PI C 66 MHz 33 MHz 14.318 MHz 48 MHz BIOS SS91 i6 AC97 Link CPUCLK+/- (100MHz) LPC BUS W83697HF Floppy LTP R P of AC97 CODEC PCICLK (33MHz) LINE-OUT MIC LINE- N II 24 MHz 4 USB Ports of CNR ATA33/66/100 33 MHz IDE Channels PS/2 KB/Mouse COM Ports of PCICLK (33MHz) USBCLK (48MHz) 14.318 MHz 33 MHz ICS 952001AF ZCLK (66MHz) CPUCLK+/- (100MHz) AGPCLK (66MHz) HCLK+/- (100MHz) GA-8SIML Motherboard - 5 2 Q-Flash Introduction A. What is Q-Flash 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. English B. How to use Q-Flash? a.

After power on the computer, pressing immediately during POST (Power On Self Test) it will allow you to enter AWARD BIOS CMOS SETUP, then press <F8> to enter Q-Flash utility. CMOS Setup Utility-Copyright (C) 1984-2002 Award Software }Standard CMOS Features }Advanced BIOS Features }Integrated Peripherals }Power Management Setup }PnP/PCI Configurations }Frequency/Voltage Control Top Performance ESC:Quit F8: Q-Flash }Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Time, Date, Hour, Days, Time, Password, etc. Q-Flash Utility Q-Flash Utility V3.05 Flash Type/Size : Keep DMI Data : SST 39SF020 / 256K Yes Load BIOS from Floppy Save BIOS to Floppy Space Bar:Change Value ESC: Reset Enter: Run }#: Select Item -5 3 The h i a R f r n e c n c l e e e c English Load BIOS From Floppy !In the A:drive, insert the "BIOS" diskette, then Press Enter to Run. 1 File(s) found XXXX.XX Total Size: 1.39M F5: Refresh 256K Free Size: 1.

14M ESC: Return Main DEL: Delete Where XXXX.XX is name of the BIOS file. !Press Enter to Run. Are you sure to update BIOS? [Enter] to continue Or [ESC] to abort..

!Press Enter to Run. !! COPY BIOS Completed -Pass !! Please press any key to continue Congratulations! You have completed the flashing and now can restart system. GA-8SIML Motherboard - 5 4 @ 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.

English - 5 5 The h i a R f r n e c n c l e e e c English Easy Tune III Introduction Gigabyte announces EasyTune III 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.



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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 EasyTuneIII--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 overclocking.

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 overclocking. 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, EasyTuneIII helps to perform the best of system. Besides, different from other traditional over-clocking methods, EasyTuneIII 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 EasyTuneIII 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 EasyTuneIII, user can "Save" this bus speed and "Load" it in next time. Obviously, Gigabyte EasyTuneIII has already turned the "overdrive" technology toward to a newer generation.*

This wonderful software is now free bundled in Gigabyte motherboard attached driver CD. Users may make a test drive of "EasyTuneIII" to find out more amazing features by themselves. GA-8SIML Motherboard -5 6 Revision History Chapter 5 Appendix Picture below are shown in Windows XP (TUCD driver version 2.0) Appendix A: SiS 650/650GX Chipset Driver Installation (Must Install!) A. SiS 650/650GX VGA Driver Installation 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. English 1.Click "SiS 650 VGA Driver " item. (1) 2.

Click "Next". (2) 3.Click "Next". 4.Click "Next".

(3) (4) 5.Click "Next". 6.Click "Finish" to restart computer. (5) (6) -5 7 Appendix English B: SiS AGP Driver Installation 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. English 1.Click "SiS AGP Driver item. (1) (2) 2.Click "Next". 3.Click "Next". (3) (4) 4.Click "Finish" to restart computer.

(5) (6) GA-8SIML Motherboard -5 8 C: USB Patch Driver Driver Installation English 2.Click "Finish" to restart computer. 1.Click "USB Patch Driver" item. (1) (2) -5 9 Appendix English Appendix B: SiS 7012 Sound Driver English 2.Click "Next". 1.Click "SiS 7012 Audio Driver" item. (1) (2) 4.Click "Finish" to restart computer.

3.Click "Next". (3) (4) GA-8SIML Motherboard -6 0 Appendix C: RealTek 8100/8139 Network Driver Revision History "RealTek 8100/8139 Network Driver" under Windows ME will auto install. If you would like to install LAN driver, please refer to attached README.txt file for detail instruction.

Please install the driver through CD-ROM by the path D:\Network\Rtl (This manual assumes that your CD-ROM device drive letter is D:). English Press "Network" icon. Click "Driver Information". (1) (2) (3) (4) -6 1 Appendix English Appendix D: EasyTuneIII Utilities Installation Revision History 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. English Press "Tools" icon. 2.Click "Easy Tune III Setup". 1.Click "Gigabyte Utilities". (1) (2) 3.Click "Next". 4. Please enter your name and company name, then click "Next".

(3) (4) 5.Click "Next". 6.Click "Next". (5) (6) GA-8SIML Motherboard -6 2 English 7.Click "Finish" to restart computer. (7) (8) -6 3 Appendix English Appendix E: BIOS Flash Procedure BIOS update procedure: If your OS is Win9X, we recommend that you used Gigabyte @BIOSTM Program to flash BIOS. English Press "Tools" icon. 2.Click "@BIOS Writer Utility v1.

08m". 1.Click "Gigabyte Utilities". (1) (2) Click "!". Click here.

(3) Methods and steps: I. Update BIOS through Internet a. Click "Internet Update" icon b. Click "Update New BIOS" icon c. Select @BIOSTM sever ("Gigabyte @BIOSTM sever 1 in Taiwan" and "Gigabyte @BIOSTM sever 2 in Taiwan" are available for now, the others will be completedsoon) d.

Select the exact model name on your motherboard e. System will automatically download and update the BIOS. GA-8SIML Motherboard -6 4 II. Update BIOS NOT through Internet: a. Do not click "Internet Update" icon b. Click "Update New BIOS" c. Please select "All Files" in dialog box while opening the old file. d. Please search for BIOS unzip file, downloading from internet or any other methods (such as: 8SIML.F1).

e. Complete update process following the instruction. III. Save BIOS In the very beginning, there is "Save Current BIOS" icon shown in dialog box. It means to save the current BIOS version. IV. Check out supported motherboard and Flash ROM: In the very beginning, there is "About this program" icon shown in dialog box. 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.



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Selecting wrong model 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 @BIOSM server, please go onto Gigabyte's web site for downloading and updating it according to method II. d. Please note that any interruption during updating will cause system unbooted English -6 5 Appendix English We use GA-7VTX motherboard and Flash841 BIOS flash utility as example. Please flash the BIOS according to the following procedures if you are now under the DOS mode. Flash BIOS Procedure: STEP 1: (1) Please make sure you have set "Auto" for BIOS Feature Setup (BIOS Flash Protection).

For more detail please refer to page 28. (2) Please make sure your system has installed the extraction utility such as winzip or pkunzip. Firstly you have to install the extraction utility such as winzip or pkunzip for unzip the files. Both of these utilities are available on many shareware download pages like <http://www.shareware.cnet.com> STEP 2: Make a DOS boot diskette. (See example: Windows 98 O.S.) Beware: Windows ME/2000 are not allowed to make a DOS boot diskette.

(1) With an available floppy disk in the floppy drive. Please leave the diskette "UN-write protected" type. Double click the "My Computer" icon from Desktop, then click "3.5 diskette (A)" and right click to select "Format (M)" English GA-8SIML Motherboard -6 6 (2) Select the "Quick (erase)" for Format Type, and pick both "Display summary when finished" and "Copy system files", after that press "Start". That will format the floppy and transfer the needed system files to it. Beware: This procedure will erase all the prior data on that floppy, so please proceed accordingly. English (3) After the floppy has been formatted completely, please press "Close". -6 7 Appendix English STEP 3: Download BIOS and BIOS utility program. (1) Please go to Gigabyte website <http://www.gigabyte.com.tw/index.html>, and click "Support". English (2) From Support zone, click the "Motherboards BIOS & Drivers". GA-8SIML Motherboard -6 8 (3) We use GA-7VTX motherboard as example.

Please select GA-7VTX by Model or Chipset optional menu to obtain BIOS flash files. English (4) Select an appropriate BIOS version (For example: F4), and click to download the file. It will pop up a file download screen, then select the "Open this file from its current location" and press "OK". -6 9 Appendix English (5) At this time the screen shows the following picture, please click "Extract" button to unzip the files. English (6) Please extract the download files into the clean bootable floppy disk A mentioned in STEP 2, and press "Extract".

GA-8SIML Motherboard -7 0 STEP 4: Make sure the system will boot from the floppy disk. (1) Insert the floppy disk (contains bootable program and unzip file) into the floppy drive A. Then, restart the system. The system will boot from the floppy disk. Please press key to enter BIOS setup main menu when system is boot up. American Release:09/16/99 Megatrends AMIBIOS (C) 1999 American Megatrend 7VTX F1 Check System Health OK AMD-Athlon(tm)Processor-900MHz Checking NVRAM... 262144KB English Wait..

. Press F1 to enter Dual BIOS Utility. Press ESC to quit Press any key to continue (C) American Megatrends Inc., 63-0001-001199-00101111-071595-VIA_K7-GA7VTX1-F (2) Once you enter the BIOS setup utility, the main menu will appear on the screen. Use the arrows to highlight the item "BIOS FEATURES SETUP". AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.24b (C) 1999 American Megatrends, Inc. All Rights Reserved STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PNP / PCI CONFIGURATION LOAD BIOS DEFAULTS LOAD SETUP DEFAULTS ESC: Quit !"#\$:Slc le eet tm INTEGRATED PERIPHERALS HARDWARE MONITOR & MISC SETUP SUPERVISOR PASSWORD USER PASSWORD IDE HDD AUTO DETECTION SAVE & EXIT SETUP EXIT WITHOUT SAVING (hf)2:Cag Clr SitF hne oo F : O d Va u s 5l le F: La BO Dfut 6 od IS eals F:La StpDfut 7 od eu eals F0Sv &Ei 1:ae xt Time, Date , Hard Disk Type... -7 1 Appendix English (3) Press "Enter" to enter "BIOS FEATURES SETUP" menu. Use the arrows to highlight the item "1st Boot Device", and then use the "Page Up" or "Page Down" keys to select "Floppy". AMIBIOS SETUP - BIOS FEATURES SETUP (C)20 Aeia Mged,Ic AlRgt Rsre 0l mrcn earns n. l ihs eevd 1tBo Dvc s ot eie 2nd Boot Device 3dBo Dvc r ot eie SMART frHr Dss ..

... o ad ik BootUp Num-Lock Floppy Drive Seek Password Check : Fop lpy :IE0 D: CDROM :Dsbe iald :O n :Dsbe iald :Stp eu ESC: Quit F : Hl 1 ep !"#\$: S l c l e eet tm P/D+-:Mdf Up// oiy English F : O d Va u s (hf) 2 C l r 5 l le SitF: oo F :La BO Dfut 6 od IS eals F :La StpDfut 7 od eu eals (4) Press "ESC" to go back to previous screen. Use the arrows to highlight the item "SAVE & EXIT SETUP" then press "Enter". System will ask "SAVE to CMOS and EXIT (Y/N)?" Press "Y" and "Enter" keys to confirm. Now the system will reboot automatically, the new BIOS setting will be taken effect next boot-up. AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.24b (C) 2001 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 Save to CMOS and EXIT (Y/N)? Y DETECTION PNP / PCI CONFIGURATION IDE HDD AUTO LOAD BIOS DEFAULTS LOAD SETUP DEFAULTS ESC: Quit !"#\$:Slc le eet tm SAVE & EXIT SETUP EXIT WITHOUT SAVING (hf)2:Cag Clr SitF hne oo F : O d Va u s 5l le F: La BO Dfut 6 od IS eals F:La StpDfut 7 od eu eals F0Sv &Ei 1:ae xt Save Data to CMOS & Exit SETUP GA-8SIML Motherboard -7 2 STEP 5: BIOS flashing. (1) After the system boot from floppy disk, type "A:\> dir/w" and press "Enter" to check the entire files in floppy A. @@@@Starting Windows 98... @@@@Right after that, press "Enter" to start BIOS Flash Utility.

-7 3 Appendix English (3) It will pop up a screen and asks "Are you sure to flash the BIOS?" Press [Enter] to continue the procedure, or press [ESC] to quit. Beware: Please do not turn off the system while you are upgrading BIOS. It will render your BIOS corrupted and system totally inoperative. English Are you sure to flash the BIOS? [Enter] to continue Or [Esc] to cancel? (4) The BIOS flash completed. Please press [ESC] to exit Flash Utility. EXIT? [Enter] to continue Or [Esc] to cancel? GA-8SIML Motherboard -7 4 STEP 6: Load BIOS defaults.



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