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You can read the recommendations in the user guide, the technical guide or the installation guide for GIGABYTE GA-8STXC. You'll find the answers to all your questions on the GIGABYTE GA-8STXC in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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GA-8STXC
P4 Titan-DDR Motherboard

USER'S MANUAL

Pentium® 4 Processor Motherboard
Rev. 1001
12ME-8STXC-1001



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Manual abstract:

Unplug your computer when working on the inside. 2. Use a grounded wrist strap before handling computer components. @@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. 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. -2- WARNING! English Chapter 1 Introduction Features Summary Form Factor CPU 30.6cm x 24.4cm ATX size form factor, 4 layers PCB Socket 478 for Intel® Micro FC-PGA2 Pentium® 4 processor Support Intel ® Pentium ® 4 (Northwood, 0.

13 m) processor Intel Pentium® 4 400/533MHz FSB Chipset Memory 2nd cache depends on CPU SiS 645DX Host/Memory controller SiS 962L MuTIOI Media I/O 3 184-pin DDR DIMM sockets Supports DDR333/DDR266/DDR200 DIMM Supports Up to 2 un-buffer double-sided DIMM DDR333 or up to 3 un-buffer Double-sided DIMM DDR266/200 Supports up to 3GB DRAM (Max)(DDR266/200) Supports only 2.5V DDR DIMM Supports 64bit ECC type DRAM integrity mode I/O Control Slots IT8705 1 CNR (Communication and Networking Riser) Slot 1 Universal AGP slot (1X/2X/4X) device support 5 PCI slot supports 33MHz & PCI 2.2 compliant On-Board IDE 2 IDE bus master (Dual UDMA33/ATA66/ATA100/ATA133) IDE ports for up to 4 ATAPI devices Supports PIO mode 3,4 (UDMA 33/ATA66/ATA100/ATA133) IDE & ATAPICD-ROM On-Board Peripherals 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 2 Serial ports (COMA & COMB) 6 x USB 2.0/1.1 (2 x Rear, 4 x Front by cable) 1 IrDA connector for IR 1 Front Audio connector to be continued...

... GA-8STXC Motherboard -3- Hardware Monitor CPU/System/Power Fan Revolution detect CPU Temperature Detect System Voltage Detect English On-Board Sound Realtek ALC650 CODEC Line Out / 2 front speaker Line In / 2 rear speaker (by s/w switch) Mic In / center & woofer (by s/w switch) SPDIF out Line In / Line Out / Mic In / CD In / Game Port On-Board LAN PS/2 Connector BIOS Additional Features Built in RTL8100BL Chipset PS/2 Keyboard interface and PS/2 Mouse interface Licensed AWARD BIOS, 2M bit Flash ROM Supports Q-Flash PS/2 Keyboard power on by password PS/2 Mouse power on STR (Suspend-To-RAM) Wake on LAN (WOL) Wake on Ring (WOR) Please set the CPU host frequency in accordance with your processor's specifications.

We don't recommend you to set the system bus frequency over the CPU's specification 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. -4- Introduction English GA-8STXC Motherboard Layout KB_MS ATX POWER CPU_FAN COMA ATX_12V LPT SOCKET 478 IDE2 IDE1 83518 COMB MIC_IN LINE_OUT LINE_IN F_AUDIO_I PWR_FAN GAME_CD_IN NB_FAN SiS 645DX AGP CLR_CMOS CI DDR1 DDR2 PC1 DDR3 BAT PC2 SiS 962L PC3 F_PANEL IT8705 S_IRQ PC5 Main BIOS SYS_FAN BUZZER SPDIF PC4 F_USB2 F_USB1 IR WOR WOL AC97 SUR_CEN RTL8100BL CNR GA-8STXC Motherboard -5- GA-8STXC DIMM_LED LAN USB FDD Chapter 2 Hardware Installation Process To set up your computer, you must complete the following steps: Step 1- Install the Central Processing Unit (CPU) Step 2- Install memory modules Step 3- Install expansion cards Step 4- Connect ribbon cables, cabinet wires and power supply Step 5- Setup BIOS software Step 6- Install supporting software tools English Step 1 Step 4 Step 2 Step 4 Step 4 Step 3 -6- Hardware Installation Process English Step 1: Install the Central Processing Unit (CPU) Step1-1 : CPU Installation Pin1 indicator Pin1 indicator CPU Top View CPU Bottom View Socket Actuation Lever Pin1 indicator 1. Pull up the CPU socket lever and up to 90-degree angle. 3. Press down the CPU socket lever and finish CPU installation. 2. Locate Pin 1 in the socket and look for a (golden) cut edge on the CPU upper corner.

Then insert the CPU into the socket. Please make sure the CPU type is supported by the motherboard. If you do not match the CPU socket Pin 1 and CPU cut edge well, it will cause improper installation. Please change the insert orientation. GA-8STXC Motherboard -7- Step1-2 : CPU Heat Sink Installation English 1.

Hook one end of the cooler bracket to the CPU socket first. 2. Hook the other end of the cooler bracket to the CPU socket. Please use Intel approved cooling fan. We recommend you to apply the thermal tape to provide better heat conduction between your CPU and heatsink. (The CPU cooling fan might stick to the CPU due to the hardening of the thermal paste. During this condition if you try to remove the cooling fan, you might pull the processor out of the CPU socket alone with the cooling fan, and might damage the processor. To avoid this from happening, we suggest you to either use thermal tape instead of thermal paste, or remove the cooling fan with extreme caution.) Make sure the CPU fan power cable is plugged in to the CPU fan connector, this completes the installation.

Please refer to CPU heat sink user's manual for more detail installation procedure.

-8- Hardware Installation Process English Step 2: Install memory modules The motherboard has 3 dual inline memory module (DIMM) sockets. The BIOS will automatically detects memory type and size. To install the memory module, just push it vertically into the DIMM socket. The DIMM module can only fit in one direction due to the notch. Memory size can vary between sockets. Support Unbuffered DDR DIMM Sizes type: 64 Mbit (2Mx8x4 banks) 128 Mbit(2Mx16x4 banks) 512 Mbit(16Mx8x4 banks) 64 Mbit (1Mx16x4 banks) 256 Mbit(8Mx8x4 banks) 512 Mbit(8Mx16x4 banks) 128 Mbit(4Mx8x4 banks) 256 Mbit(4Mx16x4 banks) Install memory in any combination table: DDR1 (Bank 0&1) DDR2 (Bank 2&3) SS DS SS DS SS DS SS DS DS SS: Single Side, DS: Double Side none none SS SS DS SS SS DS DS DDR3 (Bank 4&5) none none none none SS SS SS DS Note: 1.



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GA-8STXC can only support 4 banks of DDR333. 2. If you mix DDR266 and DDR333 then all modules will run as DDR266. GA-8STXC Motherboard -9- English DDR 1.

The DIMM socket has a notch, so the DIMM memory module can only fit in one direction. 2. Insert the DIMM memory module vertically into the DIMM socket. Then push it down. 3.

Close the plastic clip at both edges of the DIMM sockets to lock the DIMM module. Reverse the installation steps when you wish to remove the DIMM module. When STR/DIMM LED is ON, do not install/remove DIMM from socket. Please note that the DIMM module can only fit in one direction due to the one notches. Wrong orientation will cause improper installation.

Please change the insert orientation. DDR Introduction Established on the existing SDRAM industry infrastructure, DDR (Double Data Rate) memory is a high performance and cost-effective solution that allows easy adoption for memory vendors, OEMs and system integrators. DDR memory is a sensible evolutionary solution for the PC industry that builds on the existing SDRAM infrastructure, yet makes awesome advances in solving the system performance bottleneck by doubling the memory bandwidth. DDR SDRAM will offer a superior solution and migration path from existing SDRAM 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, high-end PC's and value desktop SMA systems. 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.

- 10 - Hardware Installation Process English Step 3: Install expansion cards 1. Read the related expansion card's instruction document before install the expansion card into the computer. 2. Remove your computer's chassis cover, screws and slot bracket from the computer. 3. Press the expansion card firmly into expansion slot in motherboard. 4. Be sure the metal contacts on the card are indeed seated in the slot. 5. Replace the screw to secure the slot bracket of the expansion card.

6. Replace your computer's chassis cover. 7. Power on the computer, if necessary, setup BIOS utility of expansion card from BIOS. 8.

Install related driver from the operating system. AGP Card Please carefully pull out the small white-drawable 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. Issues To Beware Of When Installing CNR Please use standard CNR card like the one in order to avoid mechanical problem.

Standard CNR Card GA-8STXC Motherboard - 11 - Step 4: Connect ribbon cables, cabinet wires and power supply Step4-1 : I/O Back Panel Introduction English PS/2 Keyboard and PS/2 Mouse Connector PS/2 Mouse Connector (6 pin Female) PS/2 Keyboard Connector (6 pin Female) This connector supports standard PS/2 keyboard and PS/2 mouse. USB / LAN Connector Before you connect your device(s) into USB connector(s), please make sure your device(s) LAN Connector USB 0 USB 1 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. - 12 - Hardware Installation Process English Parallel Port and Serial Ports (COMA / COMB) Parallel Port (25 pin Female) This connector supports 2 standard COM ports and 1 Parallel port.

Device like printer can be connected to Parallel port; mouse and modem etc. can be connected to Serial ports. COMA COMB Serial Port (9 pin Male) Game / MIDI Ports This connector supports joystick, MIDI keyboard and other relate audio devices. Joystick / MIDI (15 pin Female) Audio Connectors 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-8STXC Motherboard - 13 - Step 4-2 : Connectors Introduction 56 4 91 7 English 14 3 CI 12 GA-8STXC 8 18 19 10 11 16 2 13 17 21 20 18 15 1) 2) 3) 4) 5) 6) 7) 8) 9) 10) 11) 12) 13) 14) 15) CPU_FAN SYS_FAN PWR_FAN NB_FAN ATX_12V ATX POWER FDD IDE1 / IDE2 DIMM_LED BAT F_PANEL F_AUDIO_1 SPDIF CD_IN F_USB1 / F_USB2 16) 17) 18) 19) 20) 21) S_IRQ IR CI CLR_CMOS WOL WOR - 14 - Hardware Installation Process English 1) CPU_FAN (CPU Fan Connector) Sense 1 GND +12V/Control Please note, a proper installation of the CPU cooler is essen your nearest dealer for optional SPDIF cable. 1 VCC SPDIF Out 14) CD_IN (CD Audio In Connector) CD_R GND CD_L Connect CD-ROM or DVD-ROM audio out to the connector. 1 15) F_USB1 / F_USB2 (Front USB Connector) (F_USB1 & F_USB2 connectors in yellow are for USB 2.0) USB Dy+ USB DyPower 1 Power USB DxUSB Dx+ GA-8STXC Motherboard - 19 - GND USB Over Current 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 2.0 cable. GND 16) S_IRQ (Serial IRQ Connector) This connector is for special design, for example: PCMCIA add on card. English 1 GND Signal Please make sure that pin 1 on the IR device is align with pin 1 of the connector.

To enable the IR function on the board, you are required to purchase an option IR module. For more detail information please contact your nearest dealer for optional IR device. 17) IR 1 IR Data Output VCC(+5V) N C GND IR Data Input 18) CI (CASE OPEN) GND Signal This 2 pin connector allows your system to enable or disable the system alarm if the system case begin remove. 1 19) CLR_CMOS (Clear CMOS)# 1-2 close: Normal You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short 1-2 pin.

1 2-3 close: Clear CMOS 1 GA-8STXC Motherboard - 20 - 20) WOL (Wake On Lan) English 1 +5V SB GND Signal 21) WOR (Ring Power On; Internal Modem Card Wake Up) 1 GND Signal GA-8STXC Motherboard - 21 - 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.



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ENTERING SETUP Powering ON the computer and pressing immediately will allow you to enter Setup. If you require more advanced BIOS settings, please go to "Advanced BIOS" setting menu. To enter Advanced BIOS setting menu, press "Ctrl+F1" key on the BIOS screen. CONTROL KEYS <> <> << >>
> 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 Q-Flash function Reserved Save all the CMOS changes, only for Main Menu <Esc> <+/PgUp> Increase the numeric value or make changes <-/PgDn> <F1> <F2> <F3> <F4> <F5> <F6> <F7> <F8> <F9> <F10> GA-8ST 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.

: F2a) 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-Copyright (C) 1984-2002 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC:Quit F8: Q-Flash Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving :Select Item F10:Save & Exit Setup Time, Date, Hard Disk Type... Figure 1: Main Menu 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. - 23 - BIOS Setup English 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's clock and frequency ratio. Load Fail-Safe Defaults Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration. Load Optimized Defaults Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration.

Set Supervisor password Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup. Set User password Change, set, or disable password. It allows you to limit access to the system. Save & Exit Setup Save CMOS value settings to CMOS and exit setup.

Exit Without Saving Abandon all CMOS value changes and exit setup. GA-8ST Motherboard - 24 - English Standard CMOS Features CMOS Setup Utility-Copyright (C) 1984-2002 Award Software 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 : Move Enter:Select Fri, May 3 2002 17:56:23 None None None None 1.44M, 3.5 in. @@to Sat. <Month> Jan. to Dec. @@Through Dec. @@The time is calculated base on the 24-hour militarytime clock. For example, 1 p.

m. @@There are two types: auto type, and manual type. @@@@1.2M, 5.25 in. @@@@720K, 3.5 in. 1.44M, 3.5 in. 2.88M, 3.5 in. @@@@(Default value) Drive A is 3 mode Floppy Drive. Drive B is 3 mode Floppy Drive.

@@@@@Select your boot device priority by LSI20. 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. - 28 - USB-CDROM Select your boot device priority by USB-CDROM. 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.

Enabled 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. Disabled BIOS will not search for the type of floppy disk drive by track number. Note that there will not be any warning message if the drive installed is 360 K. (Default value) English Password Check This feature allows you to limit access to the system and Setup, or just to Setup. Setup System The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt. (Default value) 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. Full Screen logo show Enabled Disabled Fujitsu Siemens logo will be shown during POST.

(Default value) Fujitsu Siemens logo will not be shown during POST. - 29 - BIOS Setup English Integrated Peripherals CMOS Setup Utility-Copyright (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 USB Controller USB Legacy Support Onboard LAN device Init Display First Onboard Serial Port 1 Onboard Serial Port 2 UART Mode Select x UR2 Duplex Mode Onboard Parallel Port Parallel Port Mode x ECP Mode Use DMA Game Port Address Midi Port Address Midi Port IRQ Auto Auto Enabled Enabled Enabled Enabled Disabled Enabled AGP 3F8/IRQ4 2F8/IRQ3 Normal Half 378/IRQ7 SPP 3 201 330 10 [ATA33] Set Conductor cable to ATA33(40-pins) [ATA66/100] Set Conductor cable to ATA66/100(80-pins) Item Help Menu Level [Auto] Auto-detect IDE cable type : Move Enter:Select +/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults Figure 4: Integrated Peripherals F7:Optimized Defaults GA-8ST Motherboard - 30 - IDE1 Conductor Cable Auto ATA66/100 ATA33 Will be automatically detected by BIOS.



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(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). English IDE2 Conductor Cable Auto ATA66/100 ATA33 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). On-Chip Primary PCI IDE Enabled Disabled Enable onboard 1st channel IDE port. (Default value) Disable onboard 1st channel IDE port. On-Chip Secondary PCI IDE Enabled Disabled Enable onboard 2nd channel IDE port.

(Default value) Disable onboard 2nd channel IDE port. AC'97 Audio Enabled Disabled Enable onboard AC'97 audio function. (Default value) Disable this function. USB Controller Enabled Disabled Enable USB Controller. (Default value) Disable USB Controller. USB Legacy Support Enabled Disabled Enable USB Legacy Support. Disable USB Legacy Support. (Default value) - 31 - BIOS Setup English Onboard LAN device Enabled Disabled Realtek LAN is enabled. (Default value) Realtek LAN is disabled. Init Display First AGP 8PCI Set Init Display First to AGP.

(Default value) Set Display Init First to PCI. C Onboard Serial Port 1 Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled BIOS will automatically setup the port 1 address. Enable onboard Serial port 1 and address is 3F8. (Default value) Enable onboard Serial port 1 and address is 2F8. Enable onboard Serial port 1 and address is 3E8. Enable onboard Serial port 1 and address is 2E8. Disable onboard Serial port 1. Onboard Serial Port 2 Auto 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3 Disabled BIOS will automatically setup the port 2 address. Enable onboard Serial port 2 and address is 3F8. Enable onboard Serial port 2 and address is 2F8.

(Default value) Enable onboard Serial port 2 and address is 3E8. Enable onboard Serial port 2 and address is 2E8. Disable onboard Serial port 2. UART Mode Select (This item allows you to determine which Infra Red(IR) function of Onboard I/O chip) ASKIR IrDA Normal 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. (Default Value) UR2 Duplex Mode Half Full IR Function Duplex Half. (Default Value) IR Function Duplex Full. GA-8ST Motherboard - 32 - English Onboard Parallel port 378/IRQ7 278/IRQ5 Disabled 3BC/IRQ7 Enable onboard LPT port and address is 378/IRQ7. (Default Value) Enable onboard LPT port and address is 278/IRQ5.

Disable onboard LPT port. Enable onboard LPT port and address is 3BC/IRQ7. Parallel Port Mode SPP EPP ECP ECP+EPP Using Parallel port as Standard Parallel Port. (Default Value) Using Parallel port as Enhanced Parallel Port. Using Parallel port as Extended Capabilities Port. Using Parallel port as ECP & EPP mode. ECP Mode Use DMA 3 1 Set ECP Mode Use DMA to 3. (Default Value) Set ECP Mode Use DMA to 1. Game Port Address 201 209 Disabled Set Game Port Address to 201. (Default Value) Set Game Port Address to 209.

Disable this function. Midi Port Address 300 330 Disabled Set Midi Port Address to 300. Set Midi Port Address to 330. (Default Value) Disable this function.

Midi Port IRQ 5 10 Set Midi Port IRQ to 5. Set Midi Port IRQ to 10. (Default Value) - 33 - BIOS Setup English Power Management Setup CMOS Setup Utility-Copyright (C) 1984-2002 Award Software Power Management Setup ACPI Suspend Type Soft-Off by PWR_BTN System After AC Back IRQ [3-7, 9-15], NMI ModemRingOn/WakeOnLan PME Event Wake Up Power On by Keyboard Power On by Mouse Resume by Alarm x Month Alarm x Day (of Month) x Time (hh:mm:ss) Power LED in S1 state : Move S1(POS) Off Off Enabled Enabled Disabled Password Disabled Disabled NA 0 000 Blinking Enter:Select +/-/PU/PD:Value F10:Save Figure 5: Power Management Setup ESC:Exit F1:General Help [S3] Set suspend type to Suspend to RAM under ACPI OS Item Help Menu Level [S1] Set suspend type to Power On Suspend under ACPI OS F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults ACPI Suspend Type S1(POS) S3(STR) Set ACPI suspend type to S1. (Default Value) Set ACPI suspend type to S3. Soft-off by PWR_BTN Off The user press the power button once, he can turn off the system. (Default Value) Suspend The user press the power button once, then he can enter suspend mode. System after AC Back LastState When AC-power back to the system, the system will return to the Last state before AC-power off. Off When AC-power back to the system, the system will be in "Off" state. (Default Value) On GA-8ST Motherboard When AC-power back to the system, the system will be in "On" state. - 34 - IRQ [3-7, 9-15], NMI Disabled Enabled Disable this function. Enable this function.

(Default value) English ModemRingOn/WakeOnLAN Disabled Enabled Disable Modem Ring on/wake on Lan function. Enable Modem Ring on/wake on Lan.

(Default Value) PME Event Wake Up Disabled Enabled Disable this function. (Default Value) Enable PME Event Wake up. Power On by Keyboard Password Input password (from 1 to 8 characters) and press Enter to set the Keyboard Power On Password.

(Default Value) Power On by Mouse Enabled Disabled Enable Power On by Mouse function. Disable this function. @@ Disabled Enabled Disable this function. @@@@ (Default Value) In standby mode(S1): a. If use single color LED, power LED will turn off. b. @@ (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 4. PCI 1/5 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI 1/5. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1/5. PCI 2 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI 2.

(Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 2. PCI 3 IRQ Assignment Auto 3,4,5,7,9,10,11,12,14,15 Auto assign IRQ to PCI 3. (Default value) Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 3. GA-8ST Motherboard - 36 - English PC Health Status CMOS Setup Utility-Copyright (C) 1984-2002 Award Software PC Health Status VCORE VCC18 +3,3V +5V +12V Current CPU Temperature Current CPU FAN speed CPU Warning Temperature CPU FAN Fail Warning 1,719 1,776 3,232 5,026 11,716 39°C 4336 RPM Disabled Disabled Item Help : Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help F5:Previous Values F6:Fail-Safe Defaults F7:Optimized Defaults Figure 7: PC Health Status Current CPU Speed (RPM) Detect CPU/SYSTEM Fan speed status automatically. CPU FAN Fail Warning Disabled Enabled Fan Warning Function Disable. (Default value) Fan Warning Function Enable. CPU Warning Temperature Disabled CPU Temperature Warning function disabled. (Default value) System Warning if CPU Temperature is above 60°C/70°C/80°C/90°C - 37 - BIOS Setup English Frequency/Voltage Control CMOS Setup Utility-Copyright (C) 1984-2002 Award Software Frequency/Voltage Control CPU Clock Ratio 10X Item Help Menu Level : Move Enter:Select +/-/PU/PD:Value F10:Save F6:Fail-Safe Defaults ESC:Exit F1:General Help F5:Previous Values F7:Optimized Defaults Figure 8: Frequency/Voltage Control CPU Clock Ratio This option will not be shown or not be available if you are using a CPU with the locked ratio.



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10X~24X It's depends on CPU Clock Ratio. GA-8ST Motherboard - 38 - English Load Fail-Safe Defaults CMOS Setup Utility-Copyright (C) 1984-2002 Award Software Standard CMOS Features Advanced Chipset Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC:Quit F8: Q-Flash Top Performance Load Fail-Safe Defaults Load Optimized Defaults Load Fail-Safe Defaults? (Y/N)?Y Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving :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.

- 39 - BIOS Setup English Load Optimized Defaults CMOS Setup Utility-Copyright (C) 1984-2002 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup Top Performance Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Load Optimized Defaults?User Password (Y/N)?Y PnP/PCI Configurations Set Save & Exit Setup Exit Without Saving Frequency/Voltage Control PC Health Status ESC:Quit F8: Q-Flash :Select Item F10:Save & Exit Setup Load Optimized Defaults Figure 11: Load Optimized Defaults Load Optimized Defaults Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects. GA-8ST Motherboard - 40 - English Set Supervisor/User Password CMOS Setup Utility-Copyright (C) 1984-2002 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Frequency/Voltage Control ESC:Quit F8: Q-Flash Top Performance Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving :Select Item F10:Save & Exit Setup Change/Set/Disable Password Figure 12: Password Setting Enter Password: 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. 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. - 41 - BIOS Setup English Save & Exit Setup CMOS Setup Utility-Copyright (C) 1984-2002 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Top Performance Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Save to CMOS and EXIT (Y/N)? Y Frequency/Voltage Control ESC:Quit F8: Q-Flash Exit Without Saving :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-8ST Motherboard - 42 - English Exit Without Saving CMOS Setup Utility-Copyright (C) 1984-2002 Award Software Standard CMOS Features Advanced BIOS Features Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status Top Performance Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Quit Without Saving (Y/N)? N Frequency/Voltage Control ESC:Quit F8: Q-Flash Exit Without Saving :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. - 43 - BIOS Setup .



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