GA-8IE P4 Titan 533 Motherboard

# **USER'S MANUAL**

Pentium<sup>®</sup>4 Processor Motherboard Rev. 1101 12MD-8IE-1101

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## Item Checklist

- Solution IDE (ATA100) cable x 1 / Floppy cable x 1
- S CD for motherboard driver & utility
- ✓ GA-8IE user's manual
- Service August And August Augu



Computer motherboards and expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer.

- 1. Unplug your computer when working on the inside.
- Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case.
- Hold components by the edges and try not buch 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 pow er supply is switched off before you plug in or remove the ATX ow er 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 y ou 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 fix ing hole, otherwise it may damage the board or cause board malfunctioning.

## Chapter 1 Introduction

## **Features Summary**

Form Factor	29.3cm x 20.0cm ATX size form factor, 4 layers PCB.
CPU	Socket 478 for Intel <sup>®</sup> Micro FC-PGA2 Pentium <sup>®</sup> 4 processor
	☞ Intel Pentium <sup>®</sup> 4 533MHz/400MHz FSB
	${\mathscr F}$ Support Intel <sup>®</sup> Pentium <sup>®</sup> 4 (Northwood, 0.13 $\mu$ m) processor
	Ind cache depend on CPU
Chipset	Chipset 845E HOST/AGP/Controller
	ICH4 I/O Controller Hub
Memory	3 184-pin DDR DIMM sockets
	Supports PC2100 DDR or PC1600 DDR DIMM
	Supports up to 2GB DRAM (Max)
	Supports only 2.5V DDR DIMM
	Supports 64bit ECC type DRAM integrity mode
I/O Control	☞ IT8702
Slots	I AGP slot 4X (1.5V only) device support
	5 PCI slot s upports 33MHz & PCI 2.2 compliant
On-Board IDE	2 IDE controllers on the Intel ICH4 PCI chipset
	provides IDE HDD/CD-ROM (IDE1, IDE2) with PIO, Bus Maste
	(Ultra DMA 33/ATA 66/ATA 100) operation modes.
On-Board Peripherals	I Floppy port supports 2 FDD with 360K, 720K,1.2M, 1.44M
	and 2.88M bytes.
	I 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)
	I Front Audio connector
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: by s/w switch
	CD In / AUX In / Game port

to be continued.....

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On-Board USB 2.0 @	Built in IC H4 Chipset
PS/2 Connector	PS/2 Keyboard interface and PS/2 Mouse interace
BIOS @	Licensed AWARD BIOS, 2M bit
G	Supports Q-Flash
Additional Features	PS/2 Keyboard pow er on by password
G	PS/2 Mouse power on
G	External Modem wake up
G	STR(Suspend-To-RAM)
G	AC Recovery
G	Poly fuse for key board over-current protection
G	USB KB/Mouse wake up from S3
G	Supports @BIOS
G	Supports EasyTune 4
Overclocking @	OverClock (CPU/DDR) by BIOS



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.

## GA-8IE Motherboard Layout



GA-8IE Motherboard

## 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



### Step 1: Install the Central Processing Unit (CPU) Step 1-1 CPU Instal lation





1. Pull up the CPU socket lever and up to 90-degree angle.

3. Press down the CPU socket lever and finish CPU installation.



 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.

- $\measuredangle$  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.

#### Step 1-2 : CPU Heat Sink Installation



 Fasten the heatsink supporting-base onto the CPU socket on the mainboard.



 Make sure the CPU fan is plugged to the CPU fan connector, than install complete.

- Service Servic

(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.

### Step 2: Install memory modules

The motherboard has 3 dual inline memory module (DIMM) sockets, but it can only support a maximum of 4 banks of DDR memory. DDR slot 1 uses 2 banks, DDR slot 2&3 share the remaining 2 banks. Please refer to the following tables for possible memory configurations supported. 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 (2M x 8x4 banks)	64 Mbit (1Mx 16x4 banks)	128 Mbit(4Mx8x4 banks)
128 Mbit(2Mx16x4 banks)	256 Mbit(8Mx8x4 banks)	256 Mbit(4Mx16x4 banks)
512 Mbit(16Mx8x4 banks)	512 Mbit(8Mx16x4 banks)	
Total System Memory (Max 20	GB)	

Notes: Double-sided x 16 DDR memory devices are not support by htel 845E/G chipset.

DDR1	DDR2	DDR3
S	S	S
D	S	S
D	D	Х
D	Х	D
S	D	Х
S	Х	D





DDR

D:Double Sided DIMM S:Single Sided DIMM X:NotUse



 The DIMM slot has a notch, so the DIMMmemory module can only fit in one direction.
 Insert the DIMM memory module vertically into the DIMM slot. Then push it down.
 Close the plastic clip at both edges of theDIMM slots 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 two notches. Wrong orientation will cause improper installation. Please change the insert orientation.

### 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, necessary 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 whitedraw able 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 dow n on the slot. M ake sure your AGP card is locked by the small white- drawable bar.

## Step 4: Connect ribbon cables, cabinet wires, and power supply

#### Step 4-1 : I/O Back Panel Introduction



#### PS/2 Keyboard and PS/2 Mouse Connector



PS/2 Mouse Connector (6 pin Female)

 ${\ensuremath{\it \ensuremath{\it n}\ensuremath{\it \ensuremath{\it n}\ensuremath{\it \ensuremath{\it n}\ensuremath{\it n}\ensuremath{\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensuremath{n}\ensu$ keyboard and PS/2 mouse.

☞ USB Connector



∠Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker..etc. Have a standard USB interface. Also make sure your OS (Win 95 with USB supplement, Win98, Windows 2000, Windows ME, WinNT 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.

#### Parallel Port and Serial Ports (COMA/COMB)



Game / MIDI Ports



This connector supports joystick, M IDI keyboard and other relate audio devices.

Audio Connectors

After install onboard audio driver, you may connect speaker to Line Out jack, micro phone to MIC In jack. Device like CD-ROM, walkman etc can be connected to Line-In jack.

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Hardware Installation Process

## Step 4-2 :Connectors & Jumper Setting Introduction



A) CPU_FAN	J) PWR_LED
B) ATX_12V	K) F_PANEL
C) ATX	L) F_USB1/F_USB2
D) FDD	M) SPDIF
E) BAT	N) SUR_CEN
F) CLR_CMOS	O) CD_IN
G) SYS_FAN	P) AUX_IN
H) CI	Q) F_AUDIO
I) IDE1/IDE2	

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#### B) AUX\_12V( +12V Power Connector)



A) CPU\_FAN (CPU Fan Connector)

1	đ	Sense +12V/Control
1 1	0	

- This connector (ATX +12V) is used only for CPU Core Voltage.
- 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 600mA.

#### G) SYS\_FAN (System Fan Connector)



#### C) ATX (ATX Power Connector)



AC power cord should only be connected to your power supply unit after ATX power cable and other related devices are firmly connected to the mainboard.

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#### D) FloppyConnector]



#### I) IDE1 / IDE2 Connector(Primary/Secondary] Z Important Notice:



Important Notice: Please connect first harddisk to IDE1 and connect CDROM to IDE2.

#### P) AUX\_IN ( AUX In Connector)



O) CD\_IN (CD Audio Line In Connector)



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#### L)F\_USB1/F\_USB2(Front USB Connector, Yellow Connector)



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.

#### Q) F\_AUDIO (F\_AUDIO Connector)



#### F) CLR\_CMOS (Clear CMOS)



1-2 close: Clear CMOS



2-3 close: Normal

You may clear the CMOS data to its default values by this jumper.

Default doesn't include the "S hunter" to prevent from improper use this jumper. To clear CMOS, temporarily short 1-2 pin.

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M)SPDIF

J) PWR\_LED

Solution The SPDIF output is capable of providing digital audio to external speakers or com pressed AC3 data to an external Dolby Digital Decoder. Use this feature only when your stereo system has digital output function.



E) BAT (Battery)



#### CAUTION

- Solution of Explosion if battery is incorrectly replaced.
- S Replace only with the same or equivalent type recommended by the manufacturer.
- S Dispose of used batteries according to the manufacturer's instructions.

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#### K) F\_PANEL (2x10 pins connector)



GN (Green Switch)	Open: Normal Operation
	Close: Entering Green Mode
GD (Green LED)	Pin 1: LED anode(+)
	Pin 2: LED cathode(-)
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(-)
RE (Reset Switch)	Open: Normal Operation
	Close: Reset H ardware System
PW (Soft Power Connector)	Open: Normal Operation
	Close: Power On/Off
MPD(Message LED/Power/	Pin 1: LED anode(+)
Sleep LED)	Pin 2: LED cathode(-)

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.

H) CI



This 2 pin connector allows y our system to enable or disable the system alarm if the sys tem case begin remove.

Hardware Installation Process

## 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 pow er is turned off.

#### ENTERING SETUP

Powering ON the computer and pressing <Del> 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.

#### GETTING HELP

Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

#### Status Page Setup Menu / Option Page Setup Menu

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the H elp Window press <Esc>.

#### <u>The Main Menu</u>

Once y ou enter A ward BIOS CMOS Setup Utility, the Main M enu 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.

#### Q-Flash Utility

After power on the computer, pressing <Del> 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. *If you want to detail information for "Q-Flash Utility ", please download this manual from Gigabyte web http://www.gigabyte.com.tw.* 

#### 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 Chips et Features

This setup page includes all the items of chipset special features.

We would not suggest you change the chipset default setting unless you really need it.

#### *s* Integrated Peripherals

This setup page includes all onboard peripherals.

We would not suggest you change the default setting unless you really need it. For power End-User use only.

#### Z Power Management Setup

This setup page includes all the items of Green function features. We would not suggest you change the default setting unless you really need it. For power End-User use only.

#### *M* **PnP/PCI** Configurations

This setup page includes all the configurations of PCI & PnP ISA resources. We would not suggest you change the default setting unless you really need it. For power End-User use only.

## Frequency/Voltage Control This setup page is control CPU's clock and frequency ratio.

For power End-User use only.

#### *K* Top Performance Defaults

Top Performance Defaults indicates the value of the system parameters which the system would be in best performance configuration.

#### *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.

### Load Optimized Default

CMOS Set up Utility-Cop yright	(C) 1984-2002 Award Software
TStandard CMOS Features TAdvanced BIOS Features TintegratedPeripherals TPower Management Setun TPnP/PCICor TPnP/PCICor TPC Health Sty TFrequency/VotageControl	Top Performance Load Fail-Safe Defaults Load Optimized Defaults Set Sunervisor Password assword assword t Setup Exit Without Saving
= _	

#### ∠ Load Optimized Defaults

Selecting this field loads the factory defaults for BIOS and Chipset Features which the system automatically detects.

To Load Optimized, move cursor, by pressing the arrow keys on the keyboard ,to highlight the optimized default and press enter key then press "Y" if you decide to load this option.

#### Save & Exit Setup



To save exit the BIOS setting screen press F10, and press "Y" if you want to save setting. By typing "N" or "ESC" will take you back to setup screen.



If you want the detail information for BIOS setup, please download 8IE (Complete Version) manual from Gigabyte web.

http://www.gigabyte.com.tw.

## Chapter 4 Driver Installation

#### Picture below are shown in Windows XP (IUCD driver version 2.0)

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.

A. Installing Intel 845-E Chipset Driver— Please install this driver as the first priority. this item installs the chipset driver utility that enableds Plug-n-Plag INF support for Intel chipsetcomponent.

<u>B. Installing Sound Driver</u> Click this item to install sound driver.





If you want the detail information for Driver installation, please download 8IE (Complete Version) manual from Gigabyte web. http://www.gigabyte.com.tw.

#### Appendix A: Intel 845-E Chipset Driver Installation

Follow the setup that showing on the scween to install the Utility.

Inorder to install the driver successfully, please refer to the following installation procedures.



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#### Appendix B: RealTek AC'97 Audio Driver



## **Chapter 5 BIOS Flash Procedure**

BIOS update procedure:

Method 1:

If your OS is Win9X, we recommend that you used Gigabyte @BIOS™ Program to flash BIOS.





(2)



Methods and steps:

- I. Update BIOS through Internet
- a. Click "Internet Update" icon
- b. Click "Update New BIOS" icon
- c. Select @BIOS<sup>™</sup> sever ("Gigabyte @BIOSTM sever 1 in Taiwan" and "Gigabyte @BIOS<sup>™</sup> sever 2 in Taiwan" are available for now, the others will be completed soon)
- d. Select the exact model name on your motherboard
- e. System will automatically download and update the BIOS.

- II. Update BIOS NOT through Internet:
- a. Do not click "Internet U pdate" icon
- b. Click "Update New BIOS"
- c. Please select "All Files" in dialog box while opening the old file.
- Please search for BIOS unzip file, downloading from internet or any other methods (such as: 8IE.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. 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 @BIOS<sup>™</sup> 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

#### Method 2:

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 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 <u>http://www.shareware.cnet.com</u>

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 disk ette.

(1) With an available floppy disk in the floppy drive. Please leave the disk ette "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)"



(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.

mat - J& Hoppy (A:)	3
Cesecty:	14 5
1.44 M0 (3.51)	· Utan
Far ant type	Lanse
E gaids (creac)	
C Dil	
C Copy against it a get :	
Official options	- 6
J shelf	1.00
1	
T Nu label	
E. Dapley survey when this had	
IF Copy ogation files	

(3) After the floppy has been formatted completely, please press "Close".



STEP 3: Download BIOS and BIOS utility program.

(1) Please go to Gigabyte website http://www.gigabyte.com.tw/index.html, and click "Support".



(2) From Support zone, click the "Motherboards BIOS & Drivers".



- 2 2 2 A.A. 2 . - - 2 m GIGABYTE G, Worterbeenal-LKC & arrives nen prinst net 105 Dece ordinezzan femaline And wert survive. Fr D Ry Martin A.L. ... W.A ...... 1 120.000 140.000 × 1 × 2 1 15 #EU.D-1/2 C Ty Chipson 1 (201) - 1 (201) Courts College Courts No.

(3) We use GA-7VTX motherboard as example. P lease select GA-7VTX by Model or Chipset

optional menu to obtain BIOS flash files.

(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".



(5) At this time the screen shows the following picture, please click "Extract" button to unzip the files.



(6) Please extract the dow nload files into the clean bootable floppy disk A mentioned in STEP 2, and press "Extract".

Egola	Endourd Aus	Ervis
No. <u>*</u> Filez	→ → Coscop → B v/Corvetor → Bothercover	UE/CD
Pijaren ko Fililio Fililio		e p
E fareisosségiles E Synthésies	s of the and blaget dense s a cyff comerts L a balwe Berg res	
C CONS- VANTES		Line Fulles

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 <DEL> key to enter BIOS setup main menu when system is boot up.



(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		
STANDARDCMOSSETUP	INTEGRATED PERIPHERALS	
BIOSFEATURESSETUP	HARDWARE MONITOR & MISC SETUP	
CHIPSET FEATURES SETUP	SUPERVISOR PASSWORD	
POWER MANAGEMENT SETUP	USER PASSWORD	
PNP/PCICONFIGURATION	IDE HDD AUTO DETECTION	
LOAD BIOS DEFAULTS	SAVE & EXIT SETUP	
LOADSETUP DEFAULTS	EXIT WITHOUT SAVING	
ESC: Quit III: Select Item (Shi	ft)F2 : Change Color F5: Old Values	
F6: Load BIOS Defaults F7: Load Setup Defaults F10: Save & Exit		
Time, Date , Hard Disk Type		

(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.) 2001 American Megatends, Inc. All Rights Reserved			
1st Boot Device	:Floppy		
2nd Boot Device	: IDE-0		
3rd Boot Device	: CDROM		
S.M.A.R.T. for Hard Disks	: Disabled		
BootUpNum-Lock	: On	ESC: Quit	コココ: Select Item
Floppy Drive Seek	: Disabled	F1 : Help	PU/PD/+/-: Modify
PasswordCheck	: Setup	F5 : Old Value	s (Shift)F2: Color
		F6 : Load BIOS	S Defaults
		F7 : Load Setu	p Defaults

(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 SET UP UTILITY - VERSION 1.24b		
(C)2001 American Megatrends, Inc. All Rights Reserved		
STANDARDCMOSSETUP	INTEGRATED PERIPHERALS	
BIOSFEATURESSETUP	HARDWARE MONITOR & MISC SETUP	
CHIPSET FEATURES SETUP	SUPERVISOR PASSWORD	
POWER MANAGEMENT SETUR		
PNP/ PCICONFIG Save to CMOS and EXIT (Y/N)? Y		
LOAD BIOS DEFAULTS	SAVE & EXIL SETUP	
LOADSETUP DEFAULTS	EXIT WITHOUT SAVING	
ESC: Quit 1111: Select Item (Shi	ft)F2 : Change Color F5: Old Values	
F6: Load BIOS Defaults F7: Load Setup Defaults F10: Save & Exit		
Save Data to CMOS & Exit SETUP		

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. Then type the "BIOS flash utility" and "BIOS file" after A:\>. In this case you have to type "A:\> Flash841 7VTX.F4" and then press "Enter".

Starting Windows 98
Microsoft(R) Window s98
© Copyright Microsoft Corp 1981-1999
A:\>dir/w
Volume in drive A has no label
Volume Serial Number is 16EB-353D
Directory of A:\
COMMAND.COM 7VTX.F4 FLASH841.EXE
3 file(s) 838,954 bytes
0 dir(s) 324,608 by tes free
A:\> Flash841 7VTX.F4

(2) Now screen appears the following Flash Utility main menu. Press "Enter", the highlighted item will locate on the model name of the right-upper screen. Right after that, press "Enter" to start BIOS Flash Utility.



(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.



(4) The BIOS flash completed. Please press [ESC] to exit Flash Utility.

Plant UK2154 Degrangts of 2000 www.scan registereds. Test with Trystic Researces, Lien (H)		
Bear File		- Kila -
Ling Furt Lind Chipser Linr Bolada 2411	[Enter] 1	EXIT? to continue Or [Esc] to cancel?
infe Chap Vill Code 1105 Sound Nu Ture 30942 dec Nove 29	0 9 milion	He by Theorege: Discussion Separat River file name at clinical account

STEP 6: Load BIOS defaults.

Normally the system redetects all devices after BIOS has been upgraded. Therefore, we highly recommend reloading the BIOS defaults after BIOS has been upgraded. This important step resets everything after the flash.

(1) Take out the floppy diskette from floppy drive, and then restart the system. The boot up screen `will indicate your motherboard model and current BIOS version.



(2) Don't forget to press <DE L> key to enter BIOS setup again when system is boot up. Use the arrows to highlight the item "LOAD SETUP DE FAULTS" then press "Enter". System will ask "Load Setup Defaults (Y/N)?" Press "Y" and "Enter" keys to confirm.

AMIBIOS SIMPLE SETUP UTILITY - VERSION 1.24b		
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STANDARDCMOSSETUP	INTEGRATED PERIPHERALS	
BIOSFEATURESSETUP	HARDWARE MONITOR & MISC SETUP	
CHIPSET FEATURES SETUP	SUPERVISOR PASSWORD	
POWER MANAGE		
PNP/ PCICONFIG Load Setup Defaults? (Y/N)?N		
LOAD BIOS DEFAULTS	SAVE & EXIT SETUP	
LOADSETUP DEFAULTS	EXIT WITHOUT SAVING	
ESC: Quit 1111: Select Item (Shi	ft)F2 : Change Color F5: Old Values	
F6: Load BIOS Defaults F7: Load Setup Defaults F10: Save & Exit		
Load Setup Defaults		

BIOS Flash Procedure

(3) Use the arrows to highlight the item "SAVE & EXIT SETUP" and press "Enter". System will ask "SAVE toCMOS 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.

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STANDARDCMOSSETUP	INTEGRATED PERIPHERALS	
BIOSFEATURESSETUP	HARDWARE MONITOR & MISC SETUP	
CHIPSET FEATURES SETUP	SUPERVISOR PASSWORD	
PNP/ PCICONFIG Save to CMOS and EXIT (Y/N)? Y		
LOAD BIOS DEFAULTS	SAVE & EXIL SETUP	
LOADSETUP DEFAULTS	EXIT WITHOUT SAVING	
ESC: Quit 기기기기: Select Item (Shi	ft)F2 : Change Color F5: Old Values	
F6: Load BIOS Defaults F7: Load Setup Defaults F10: Save & Exit		
Save Data to CMOS & Ex it SETUP		

(4) Congratulate you have accomplished the BIOS flash procedure.