



# **SY-6VZA**

# **Motherboard**

\*\*\*\*\*

Socket 370 for Intel Celeron™ Processor  
ViA ApolloPro AGP/PCI Motherboard  
66&100MHz Front Side Bus supported  
ATX Form Factor

\*\*\*\*\*

User's Guide  
&  
Technical Reference

### About This Guide

This User's Guide is for assisting system manufacturers and end users in setting up and installing the Motherboard. Information in this guide has been carefully checked for reliability; however, no guarantee is given as to the correctness of the contents. The information in this document is subject to change without notice.

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**Version 1.0**  
**6VZA SERIAL**

**FC** Tested To Comply  
With FCC Standards  
FOR HOME OR OFFICE USE

**100%** POST CONSUMER  
RECYCLED PAPER

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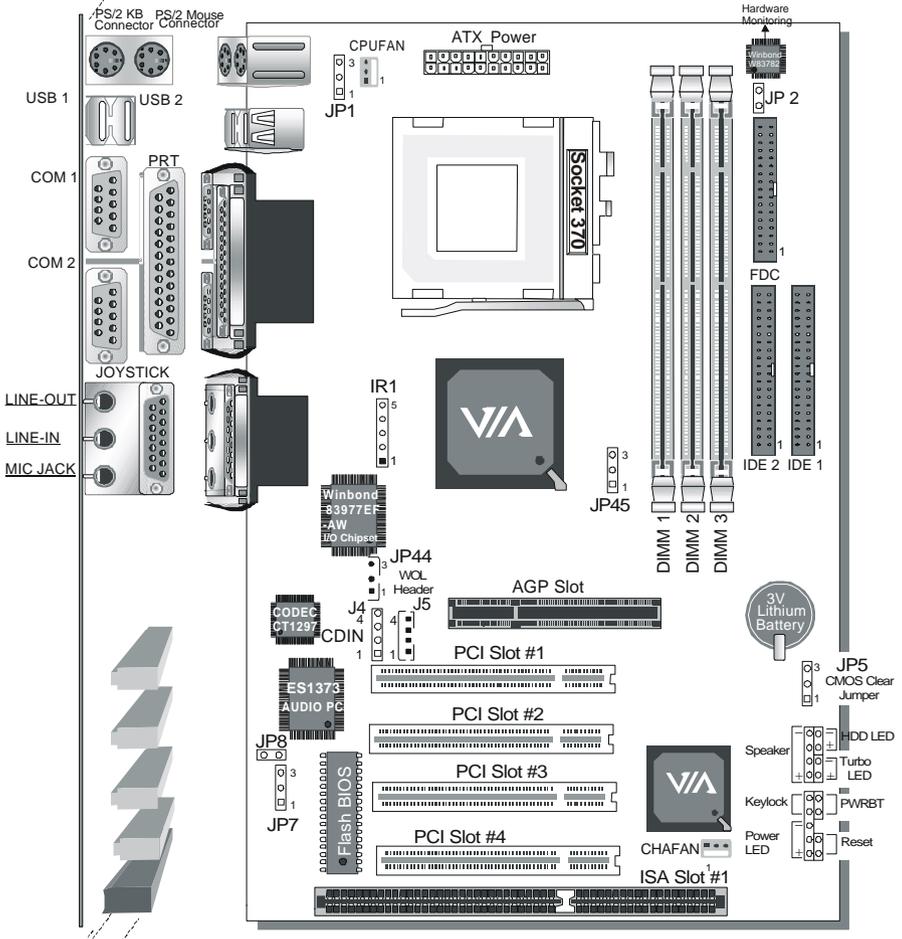
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# SY-6VZA MOTHERBOARD LAYOUT



Back Panel

SY-6VZA Platform

## Chapter 1

### INTRODUCTION

The **SY-6VZA** AGP/PCI Motherboard is a high-performance Celeron® processor supported ATX form-factor system board. **SY-6VZA** uses the ViA ApolloPro Chipset technology and supports Socket 370 Celeron™ class processors. This Motherboard is fully compatible with industry standards and adds many technical enhancements.

#### **1-1 KEY FEATURES**

Supports Intel Socket 370 Celeron™ processor (300A~433 MHz)

Auto-detect CPU voltage

PC98, ACPI, Ultra DMA/33

Supports system memory up to 512 MBytes

Power-on by modem or alarm

Supports power-on by keyboard

Supports onboard hardware monitoring  
and includes Hardware Doctor™ utility

1 x 32-bit AGP slot

4 x 32-bit bus mastering PCI slots

2 x USB ports onboard

1 x IrDA port

Supports multiple-boot function

SOYO COMBO Setup

Supports power failure resume

Supports Fan speed control

Supports Hardware suspend (APM mode only)

**SY-6VZA PLATFORM FEATURES**

Board Size	4-layer PCB, 17x30.5cm(6.7"x12"), ATX Form Factor
Socket 370	66/100MHz FSB <ul style="list-style-type: none"><li>➤ Celeron™ Processor 300A/333/366/400*/433* MHz</li><li>➤ Built-in full speed 128KB L2 cache.</li><li>➤ Features Auto-detection of CPU voltage</li></ul>
Chipset	ViA ApolloPro AGP Set
ATX Power	20-pin Male Connector
CPUFAN	3-pin CPU Cooling Fan Connector
Memory	DIMM Bank (DIMM1~3) <ul style="list-style-type: none"><li>➤ Three strips of 168-pin Unbuffered SDRAM DIMM</li><li>➤ Supports 8/16/32/64/128/256MB DIMM modules in each bank</li><li>➤ Supports up to 512 MBytes of main memory</li></ul>
BIOS	System BIOS built-in, Award BIOS <ul style="list-style-type: none"><li>➤ APM, ACPI and "Plug-and-Play" function</li><li>➤ Supports multiple-boot function</li><li>➤ Onboard FLASH memory for easy upgrade</li><li>➤ Y2000 Compliant</li></ul>
Bus Controller	Compliant with PCI specifications version 2.1
PCI Slots	4 x 32-bit Bus Mastering Slots
AGP Slot	1 x 32-bit AGP Slot
ISA Slots	1 x 16-bit ISA Slots
IDE1, IDE2	2 x 40-pin Bus Mastering E-IDE/ATAPI Ports <ul style="list-style-type: none"><li>➤ IDE1: Primary IDE Device Connector</li><li>➤ IDE2: Secondary IDE Device Connector</li><li>➤ Supports Ultra DMA/33MHz</li></ul>
FDC	1 Floppy Disk Drive (FDD) Port (Supports 1.2MB/1.44MB/2.88MB and LS120/3-mode FDD)
IR1	5-pin Serial Infrared Device Header
Keylock	5-pin KeyLock Header
Reset	2-pin Reset Switch Header
Speaker	4-pin PC Speaker Header

TB_LED	2-pin Turbo LED Header
HDD_LED	2-pin IDE Device LED Header
PWRBT	ATX Power On/Off Switch 2-pin Header
J4, J5	2 x CD Line-in 4-pin Headers
JP1	Power-On by Keyboard Jumper
JP2	External Suspend Button Header
JP5	CMOS Clear Jumper
JP7	Onboard Sound Jumper
JP8	Power Button Enable Jumper
JP44	WOL (Wake-On-LAN) 3-pin Header
JP45	AGP operating speed Select Jumper

### **SY-6VZA BACK-PANEL FEATURES**

PRT	1 x Onboard 26-pin Female Parallel Printer Port <ul style="list-style-type: none"><li>➤ ECP/EPP/SPP multi-mode parallel printer port</li></ul>
COM1, COM2	2 x Onboard RS-232 Serial Ports <ul style="list-style-type: none"><li>➤ Feature 2 x high-speed UARTs (with 16550 FIFO)</li></ul>
PS/2 KB	1 x Onboard PS/2 Keyboard Port
PS/2 Mouse	1 x Onboard PS/2 Mouse Port
USB1, USB2	2 x Onboard USB (Universal Serial Bus) Ports
JOYSTICK	1 x Onboard 15-pin Joystick Port
LINE-OUT	1 x Onboard Line-out Audio Stereo Jack
LINE-IN	1 x Onboard Line-in Audio Stereo Jack
MIC JACK	1 x Onboard Microphone Stereo Jack

**\*These processors are not available yet for testing.**

## HANDLING THE MOTHERBOARD

To avoid damage to your Motherboard, follow these simple rules while unpacking:

- Before handling the Motherboard, ground yourself by grasping an unpainted portion of the system's metal chassis.
- Remove the Motherboard from its anti-static packaging. Hold the Motherboard by the edges and avoid touching its components.
- Check the Motherboard for damage. If any chip appears loose, press carefully to seat it firmly in its socket.



**Warning:** Do not apply power if the Motherboard appears damaged. If there is damage to the board, contact your dealer immediately.

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## 1-2 ELECTROSTATIC DISCHARGE PRECAUTIONS

Make sure to ground yourself before handling the Motherboard or other system components. Electrostatic discharge can easily damage the components. Note that you must take special precautions when handling the Motherboard in dry or air-conditioned environment.

To protect your equipment from electrostatic discharge, take the following precautions:

- Do not remove the anti-static packaging until you are ready to install.
- Ground yourself before removing any system component from its protective anti-static packaging. (To ground yourself, grasp the expansion slot covers or other unpainted portions of the computer chassis.)
- Frequently ground yourself while working or use a grounding strap.
- Handle the Motherboard by its edges and avoid touching its components.

## Chapter 2

# HARDWARE SETUP

Congratulations on your purchase of **SY-6VZA** Motherboard. You are about to install and connect your new Motherboard.



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**Note:** Do not unpack the Motherboard from its protective anti-static packaging until you have made the following preparations.

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### 2-1 PREPARATIONS

Gather and prepare all the following hardware equipment to complete the installation successfully:

1. Celeron™ processor with built-in CPU cooling fan (boxed type).



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**Note:** This Motherboard supports non-boxed type CPUs. The heavier CPU cooling fan requires the installation of a CPU support stand included in this Motherboard package.

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2. DIMM memory module
3. Computer case and chassis with adequate power supply unit
4. Monitor
5. PS/2 Keyboard
6. Pointing Device (PS/2 mouse)
7. Speaker(s) (optional)
8. Disk Drives: HDD, CD-ROM, Floppy drive ...
9. External Peripherals: Printer, Plotter, and Modem (optional)
10. Internal Peripherals: Modem and LAN cards (optional)

#### **Frequently Asked Questions:**

● **Do I need to install a sound card?**

The answer is NO since, for your convenience, the SY-6VZA Motherboard already features three built-in audio-stereo ports (Line-in, Line-out, and Microphone).

● **What kind of speaker can connect to "Line-out" port?**

This motherboard requires a speaker with built-in amplifier to generate proper output sound volume.

## 2-2 UNPACKING THE MOTHERBOARD

When unpacking the Motherboard, check for the following items:

- The **SY-6VZA** ViA ApolloPro AGP/PCI Motherboard
- This *Quick Start Guide* \*
- The Installation CD-ROM \*
- One IDE Device Flat Cable
- One Floppy Disk Drive Flat Cable

\* If your board comes with a driver disc and a paper manual, the Quick Start Guide and the CD-ROM are not included in the package.



**Warning:** Do not unpack the Motherboard from its anti-static packaging until you are ready to install it.

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Like most electronic equipment, your Motherboard may be damaged by electrostatic discharge. To avoid permanent damage to components ground yourself while working by using a grounding strap. Otherwise, ground yourself frequently by touching the unpainted portion of the computer chassis to drain the static charges.

Handle the Motherboard carefully, holding it by the edges. You are now ready to start the installation.

## 2-3 INSTALLATION GUIDE

We will now begin the installation of the Motherboard. Please follow the step-by-step procedure designed to lead you to a complete and correct installation.



**Warning:** Turn off the power to the Motherboard, system chassis, and peripheral devices before performing any work on the Motherboard or system.

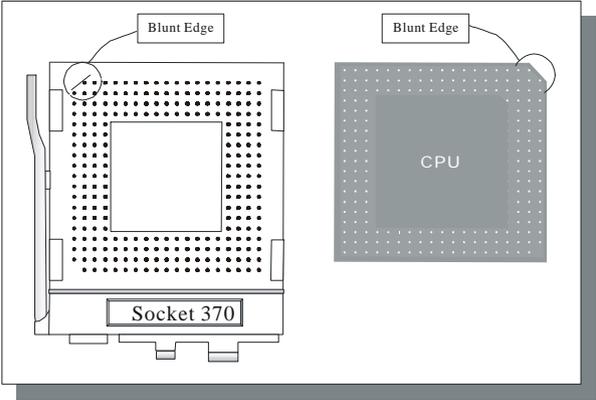
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**Step 1. CPU Installation**

Follow these instructions to install your Celeron™ class processor correctly.

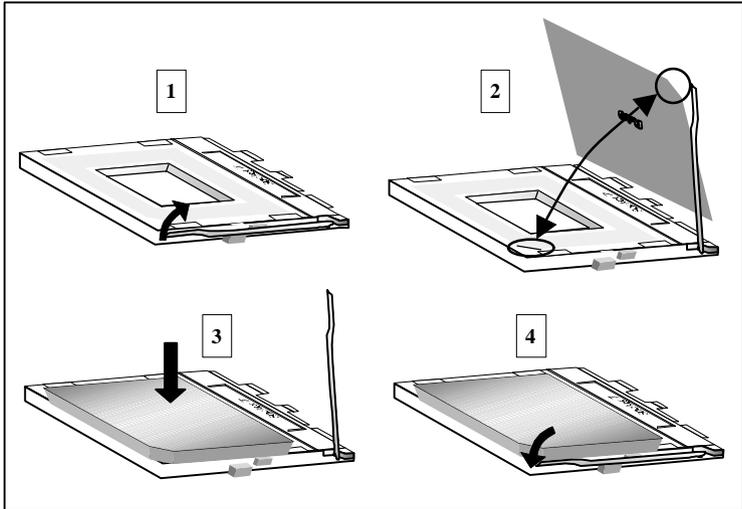
Locate the CPU socket labeled Socket 370 on your Motherboard and note the distinctive pinhole arrangement.

Note the corresponding pinhole arrangement on the processor.



Follow these steps to install the CPU in the Socket 370:

1. Lift the socket handle up to a vertical position.
2. Align the blunt edge of the CPU with the matching pinhole distinctive edge on the socket.
3. Seat the processor in the socket completely and without forcing.
4. Then close the socket handle to secure the CPU in place.



## Step 2. CPU Fan Installation

Your Celeron™ processor kit comes with a cooling fan. Mount the fan on the processor according to the instructions provided by the manufacturer. The fan is a key component that will ensure system stability. The fan prevents overheating, therefore prolonging the life of your CPU.



**Note:** Remember to connect the fan to the appropriate power source.

### Step 3. SDRAM Memory Module Installation

This Motherboard features 3 x DIMM for 168-pin 3.3V unbuffered DIMM modules, providing support for up to 512MB of main memory using DIMM modules from 8MB to 256MB.

Number of Memory Modules	DIMM 1	DIMM 2	DIMM 3
1	Double-sided /Single-sided	Double-sided	
2	Double-sided /Single-sided		Double-sided
3	Double-sided /Single-sided	Single-sided	Single-sided
<b>RAM Type</b>	SDRAM		
<b>Memory Module Size (MB)</b>	8/16/32/64/128/256 Mbytes		
<i>Note: Because DIMM 2 and 3 are shared, double-sided DIMMs can be used in only one of the DIMMs. With single-sided DIMMs both 2 and 3 can be used.</i>			

### Step 4. IDE Device Installation (HDD, CD-ROM)

This Motherboard offers two primary and secondary IDE device connectors (IDE1, IDE2). It can support up to four high-speed HDD or CD-ROM.

Connect one side of the 40-pin flat cable to the IDE device (HDD or CD-ROM) and plug the other end to the primary (IDE1) or secondary (IDE2) directionally keyed IDE connector on the Motherboard.

This Motherboard can support up to four HDDs.

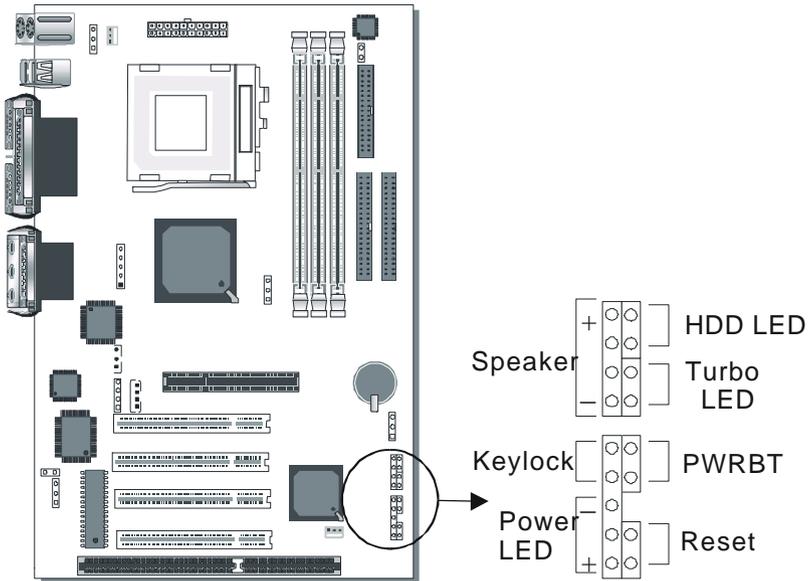
### Step 5. Floppy Drive Installation

The system supports 5 possible floppy drive types: 720 KB, 1.2 MB, 1.44 MB, 2.88 MB, and LS-120. In addition, this Motherboard supports a 3-mode (720KB/1.25MB/1.44MB) floppy commonly used in Japan.

Connect one side of the 34-pin flat cable to the floppy drive and plug the other end to the floppy drive connector on the Motherboard.

This Motherboard can support up to 2 floppy drives.

### Step 6. Front Panel Connections



Plug the computer case's front panel devices to the corresponding headers on the Motherboard.

#### 1. Power LED & KeyLock

Plug the Power LED cable into the 5-pin Keylock header.

Some systems may feature a KeyLock function with a front panel switch for enabling or disabling the keyboard. Connect the KeyLock switch to the 5-pin Keylock header on the Motherboard.

Please install according to the following pin assignment: pin 1,3 are for Power LED and pin 4,5 are for Keylock.

## **2. Reset**

Plug the Reset push-button cable into the 2-pin Reset header on the Motherboard. Pushing the Reset button on the front panel will cause the system to restart the boot-up sequence.

## **3. Speaker**

Attach the 4-pin PC speaker cable from the case to the Speaker header on the Motherboard.

## **4. Turbo LED**

Connecting the 2-pin Turbo LED cable to the corresponding Turbo LED header will cause the LED to light whenever the system is in Turbo mode.

The manufacturer has permanently set this Motherboard in Turbo mode due to most hardware and software compliance to turbo mode.

## **5. IDE LED**

Attach the 2-pin IDE device LED cable to the corresponding IDE LED header on the Motherboard. This will cause the LED to lighten when an IDE (HDD, CD-ROM) device is active.

## **6. ATX Power On/Off Switch**

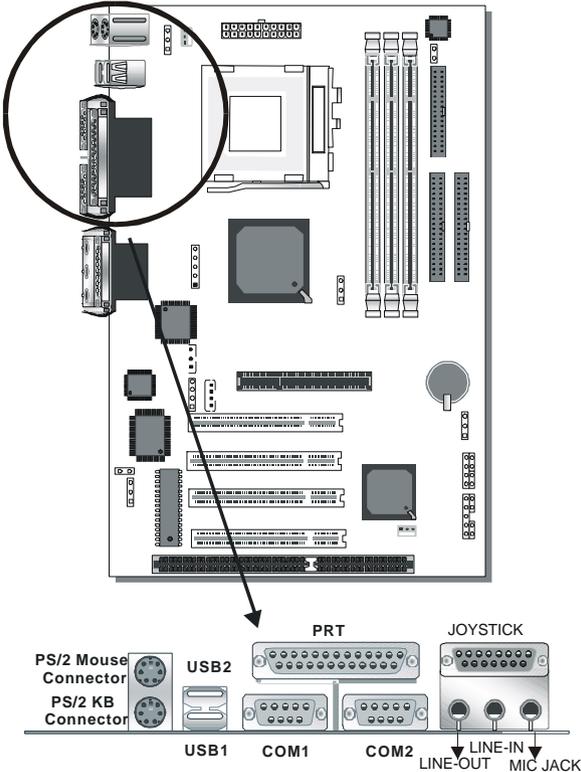
Attach the 2-pin momentary type switch to the PWRBT header for turning On or Off your ATX power supply.

### Step 7. Back Panel Connections

All external devices such as the PS/2 keyboard, PS/2 mouse, printer, modem, USB, joystick and audio devices (speakers/headphones, microphone and CD/cassette player) can be plugged directly onto the Motherboard back panel.

Only after you have fixed and locked the Motherboard to the computer case can you start connecting the external peripheral devices.

When connecting an external device, use the following figure to locate and identify which back panel connector to plug the device to.



**1. Onboard Serial Ports COM1/COM2**

External peripherals that use serial transmission scheme include:

- serial mouse,
- and modem.

Plug the serial device cables directly into the COM1/COM2 9-pin male connectors located at the rear panel of the Motherboard.

**2. Parallel Port PRT**

This parallel port is used to connect the printer or other parallel devices.

Plug the parallel device cable into the 25-pin female connector located at the rear panel of the Motherboard.

**3. PS/2 Keyboard**

Plug the keyboard jack directly into the 6-pin female PS/2 keyboard connector located at the rear panel of the Motherboard.

**4. PS/2 Mouse**

Similarly, plug the mouse jack directly into the 6-pin female PS/2 mouse connector.

**5. Universal Serial Bus USB1/USB2**

This Motherboard provides two USB ports for your additional devices. Plug the USB device jack into the available USB connector USB1 or USB2.

- USB devices under Win98 are allowed.
- With Win95, use the flow UHCI specifications.

**6. Onboard Joystick port/audio**

This Motherboard provides Joystick port and audio.

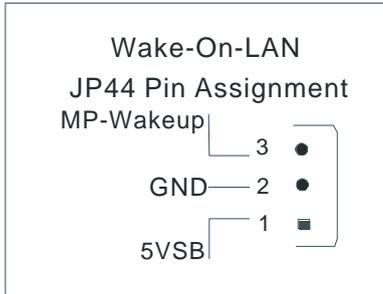
- Attach the joystick cable to the 15-pin JOYSTICK port at the rear panel of you motherboard.
- This Motherboard features three built-in audio-stereo ports (labeled line-out, line-in and mic jack) convenient to directly plug-in all your external audio devices.

## Step 8. Other Connections

### 1. Wake-On-LAN (WOL)

Attach the 3-pin connector from the LAN card which supports the Wake-On-LAN (WOL) function to the JP44 header on the Motherboard. This WOL function lets users wake up the connected computer through the LAN card.

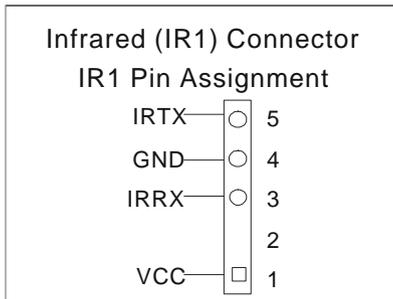
Please install according to the following pin assignment:



### 2. Infrared (IR)

Plug the 5-pin infrared device cable to the IR header. This will enable the infrared transfer function. This Motherboard meets both the ASKIR and HPSIR specifications.

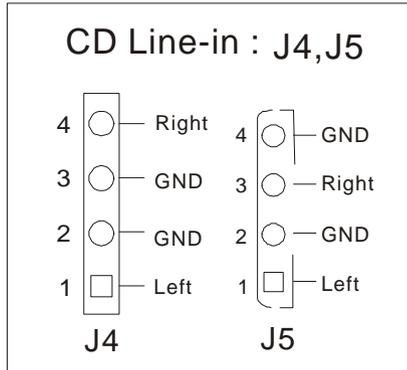
Please install according to the following pin assignment:



### 3. CD Line-in (J4,J5)

This Motherboard provides two CD-Line in connectors. Please connect the 4-pin audio cable from your CD-ROM drive to either CDIN1 or CDIN2. (It fits in only one, depending on the cable that came with your CD-ROM drive)

Please install according to the following pin assignment:



### 4. Other Display Cards

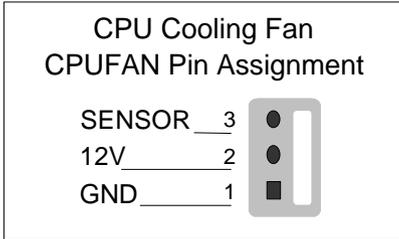
Insert other types of VGA cards into the PCI or ISA expansion slots according to card specifications.

## Step 9. Cooling Fan Installation

### 1. CPU Cooling Fan

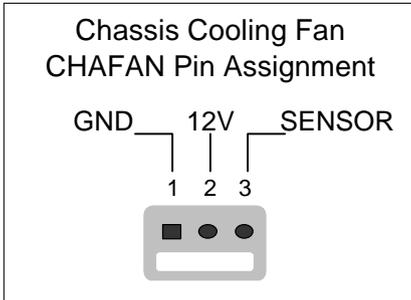
After you have seated the CPU properly on the processor, attach the 3-pin fan cable to the CPUFAN connector on the Motherboard. The fan will stop when the system enters into Suspend Mode. (Suspend mode can be enabled from the BIOS Setup Utility, [POWER MANAGEMENT] menu.)

To avoid damage to the system, install according to the following pin assignment:



### 2. Chassis Cooling Fan

Some chassis also feature a cooling fan. This Motherboard features a CHAFAN connector to provide 12V power to the chassis fan. Connect the cable from the chassis fan to the CHAFAN 3-pin connector. Install according to the following pin assignment:



**Note:** CPUFAN must be installed for this Motherboard, CHAFAN is optional.

### Step 10. AGP VGA Card

Insert the AGP VGA card into the AGP slot. Then connect the monitor information cable to the AGP card back plane external connector.

Follow the manufacturer's instructions to perform the AGP VGA drivers installation.

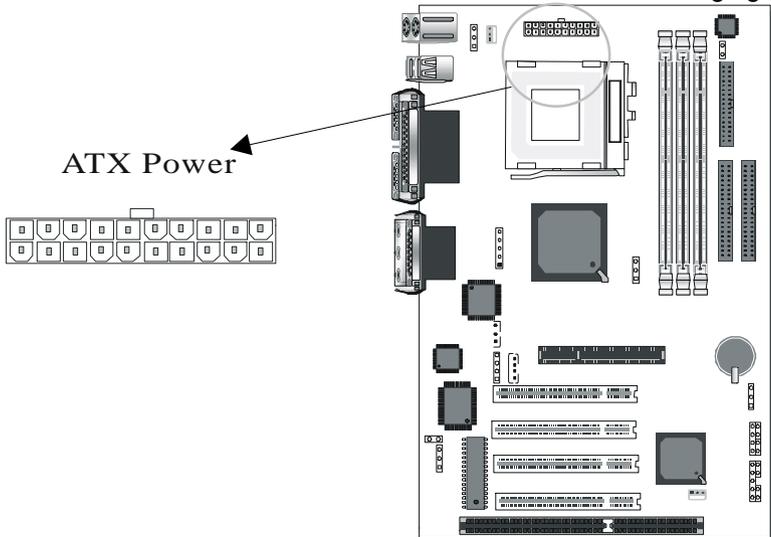
**Other Display Cards:** Insert other types of VGA cards into the PCI or ISA expansion slots according to card specifications.

### Step 11. PCI Audio Card

Some PCI soundcards require a PC-PCI DMA channel. Attach the 5-pin cable from your PCI audio card to the SB-LINK™ header on the Motherboard. The SB-LINK™ will forward requests for legacy DMA channel to the PCI Bus.

### Step 12. ATX Power Supply

Plug the connector from the power directly into the 20-pin male ATX PW connector on the Motherboard, as shown in the following figure.



**Warning:** Follow these precautions to preserve your Motherboard from any remnant currents when connecting to ATX power supply:

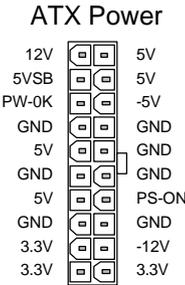


**Turn off the power supply and unplug the power cord of the ATX power supply before connecting to ATX PW connector.**

The Motherboard requires a power supply with at least 200 Watts and a "power good" signal. Make sure the ATX power supply can take at least 720 mA \* load on the 5V Standby lead (5VSB) to meet the standard ATX specification.

\* **Note:** If you use the Wake-On-LAN (WOL) function, make sure the ATX power supply can support at least 720 mA on the 5V Standby lead (5VSB).

Please install the ATX power according to the following pin assignment:



➤ **Pay special care to the directionality.**

### Step 13. Power-On by Keyboard Jumper (JP1)

You can choose to enable the Power-On by Keyboard function by shorting pin 2-3 on jumper JP1, otherwise, short pin 1-2 to disable this function.

Power-On by Keyboard	Disable	Enable
<b>JP1 Setting</b>	Short pin 1-2 to disable the Power-On by Keyboard function. 	Short pin 2-3 to enable the Power-On by Keyboard function. 



**Note:** When using the Power-On by Keyboard function, please make sure the ATX power supply can take at least 720mA load on the 5V Standby lead (5VSB) to meet the standard ATX specification.

### Step 14. External Suspend Button (JP2)

Some cases come with a suspend button, insert the plug into JP2. In addition to through this button, the system can also enter the suspend mode through your OS.



**Note:** Suspend mode only functions if your Power Management mode is APM. Make sure that the BIOS setting for Power Management is APM. Windows 98 can be installed with ACPI Power Management (default is APM), in this case suspend mode will not function either.

## Step 15. CMOS Clearing (JP5)

After you have turned off your computer, clear the CMOS memory by momentarily shorting pins 2-3 on jumper JP5, for a few seconds. Then restore JP5 to the initial 1-2 jumper setting in order to recover and retain the default settings.

After you have turned off your computer, clear the CMOS memory by momentarily shorting pin 2-3 on jumper JP5 for at least 5 seconds. Then permanently short pin 1-2 to retain new settings.

Jumper JP5 can be easily identified by its white colored cap.

CMOS Clearing	Clear CMOS Data	Retain CMOS Data
<b>JP5 Setting</b>	Short pin 2-3 for <b>at least 5 seconds</b> to clear the CMOS  3 2 1	Short pin 1-2 to retain new settings  3 2 1
<b>Note:</b> You must unplug the ATX power cable from the ATX power connector when performing the CMOS Clear operation.		

## Step 16. Onboard Sound Jumper (JP7)

The onboard audio features of your Motherboard are controlled by jumper JP7. You can choose to enable or disable the available sound function by setting JP7 accordingly.

- Short pin 1-2 on jumper JP7 to enable the onboard sound function. Then, you can plug your external audio devices such as amplified-speakers, CD-player, and microphone to the Motherboard Line-out, Line-in and Mic ports right after the Motherboard is installed. (You do not need to install any sound card.)
- To disable the onboard sound options short pin 2-3 on jumper JP7.

Onboard Sound	Disable	Enable
<b>JP7 Setting</b>	Short pin 2-3 to disable the onboard sound function.  3 2 1	Short pin 1-2 to enable the onboard sound function.  3 2 1

## Step 17. Power Button Enable (JP8)

Your system can be power on by either pressing a power button or typing in a password, which can be set in the BIOS SOYO COMBO Setup. To avoid being unable to power up the system due to forgetting the password, you can place a jumper cap to short JP8. This will always enable the Power Button.

Power Button Enable	Power Button always enabled	Power Button according to BIOS setting
<b>JP8 Setting</b>	Short pin to always enable the Power Button. 	Open pin for a Power Button function according to the BIOS setting. 

## Step 18. Power up FSB clock and AGP bus clock Setting (JP45)

JP45 is used to adjust AGP bus clock frequency depending on the value of the front side bus (FSB) clock, also the setting of the JP45 determines the power up FSB clock which will remain effective until the BIOS set the FSB clock to the CMOS setting.

JP45 Setting	 3 2 1	 3 2 1
Power up FSB Clock	66MHz	100MHz
AGP Clock	AGP Clock = FSB Clock ÷ 1	AGP Clock = FSB Clock ÷ 1.5

**Note: The specification of maximum AGP bus Clock frequency is 66.6MHz.**

- \* Set JP45 to pin 1-2 short when you use a FSB 100MHz CPU.
- \* Set JP45 to pin 2-3 short when you use a FSB 66MHz CPU such as 300AMHz, 333MHz, 366MHz, etc.
- \* Set JP45 to pin 1-2 short when you use a FSB 66MHz but want to over clock the FSB clock to 100MHz Via ApolloPro the BIOS setting.

## Step 19. Power On

You have now completed the hardware installation of your Motherboard successfully.

1. Turn the power on
2. To enter the BIOS Setup Utility, press the <DEL> key while the system is performing the diagnostic checks,



**Note:** If you have failed to enter the BIOS, wait until the boot up sequence is completed. Then push the RESET button and press <DEL> key again at the beginning of boot-up, during diagnostic checks.

Repeat this operation until you get the following screen.

3. The BIOS Setup screen appears:

ROM PCI/ISA BIOS	
CMOS SETUP UTILITY	
AWARD SOFTWARE, INC.	
SOYO COMBO SETUP	INTEGRATED PERIPHERALS
STANDARD CMOS SETUP	SUPERVISOR PASSWORD
BIOS FEATURES SETUP	USER PASSWORD
CHIPSET FEATURES SETUP	IDE HDD AUTO DETECTION
POWER MANAGEMENT SETUP	SAVE & EXIT SETUP
PNP/PCI CONFIGURATION	EXIT WITHOUT SAVING
LOAD SETUP DEFAULTS	
Esc : Quit	↑ ↓ → ← : Select Item
F10 : Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type...	

## Step 20. Quick BIOS Setup

This Motherboard does not use any hardware jumpers to set the CPU frequency. Instead, CPU settings are software configurable with the BIOS **[SOYO COMBO SETUP]**. The **[SOYO COMBO SETUP]** menu combines the main parameters that you need to configure, all in one menu, for a quick setup in BIOS.

After the hardware installation is complete, turn the power switch on, then press the <DEL> key during the system diagnostic checks to enter the Award BIOS Setup program. The CMOS SETUP UTILITY will display on screen. Follow these steps to configure the CPU settings.

### 1. Select **[LOAD SETUP DEFAULT]**

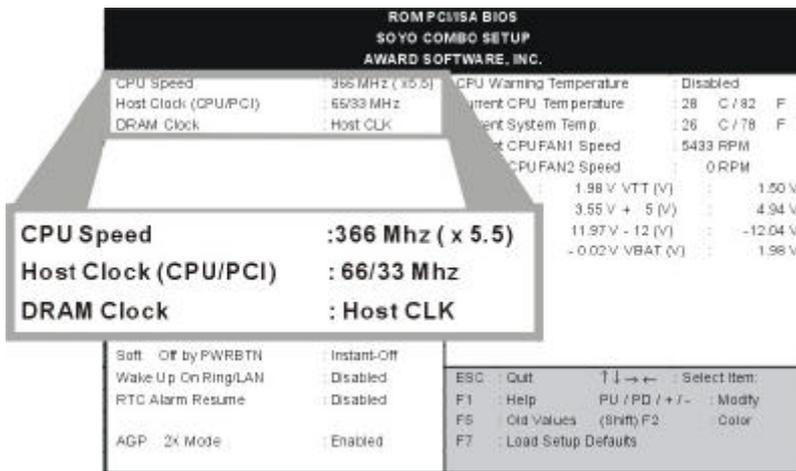
Select the "LOAD SETUP DEFAULT" menu and type "Y" at the prompt to load the BIOS optimal setup.

### 2. Select **[STANDARD CMOS SETUP]**

Set [Date/Time] and [Floppy drive type], then set [Hard Disk Type] to "Auto".

### 3. Select [SOYO COMBO SETUP]

Move the cursor to the [CPU Frequency] field to set the CPU frequency, as shown in the following display.



Available [CPU Frequency] settings on your SY-6VZA Motherboard are detailed in the following table. You are then required to fill in the next two consecutive fields: (1) CPU Speed, and (2) the Host Clock (CPU/PCI).

CPU Frequency	Select the working frequency of your
<input type="checkbox"/> 300MHz (66 x 4.5)	Celeron™ processor among these preset values. <i>Note:</i> <input checked="" type="checkbox"/> Mark the checkbox that corresponds to the working frequency of your Celeron™ processor in case the CMOS configuration should be lost.
<input type="checkbox"/> 333MHz (66 x 5.0)	
<input type="checkbox"/> 366MHz (66 x 5.5)	
<input type="checkbox"/> 400MHz (66 x 6.0)	
<input type="checkbox"/> 433MHz (66 x 6.5)	
<input type="checkbox"/>	



**Note:** if you use Bus Frequencies of 75 MHz, make sure that your PCI cards can cope with the higher PCI clock.

#### 4. Select [SAVE & EXIT SETUP]

Press <Enter> to save the new configuration to the CMOS memory, and continue the boot sequence.

### Troubleshooting at First Start

- **What should I do if the Motherboard refuses to start?**

The 66MHz setting is used as default so whenever the BIOS settings are erased or reset, the board will be able to boot up. If the CPU frequency was set too high and the Motherboard refuses to start up, you can always load the default values by pressing the [Ins] key during boot up.

### Step 21. Power Off

There are two possible ways to turn off the system:

1. Use the **Shutdown** command in the **Start Menu** of Windows 95/98 to turn off your computer.
2. Press the mechanical power-button and **hold down for over 4 seconds**, to shutdown the computer. If you press the power-button for less than 4 seconds, then your system will enter into **Suspend Mode**.

You are now ready to configure your system with the BIOS setup program. Go to **Chapter 3: BIOS SETUP**

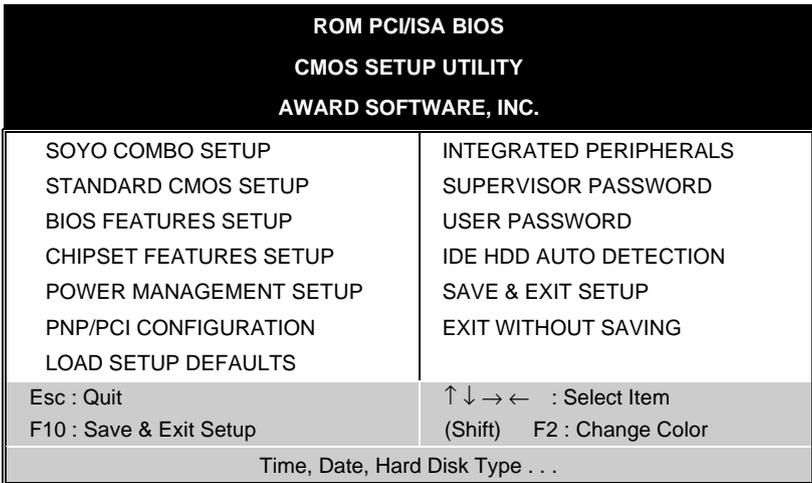
# Chapter 3

## BIOS SETUP UTILITY

This Motherboard's BIOS setup program uses the ROM PCI/ISA BIOS program from Award Software Inc.

To enter the Award BIOS program's Main Menu:

1. Turn on or reboot the system.
2. After the diagnostic checks, press the [Del] key to enter the Award BIOS Setup Utility.



3. Selecting items
  - Use the arrow keys to move between items and select fields.
  - From the Main Menu press arrow keys to enter the selected submenu.

### Modifying selected items

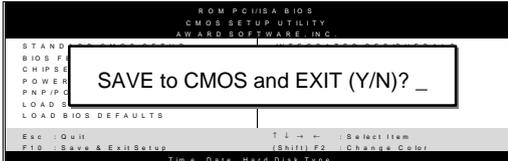
- Use the [Up]/[Down] keys to modify values within the selected fields. Some fields let you enter values directly.

**Hot Keys:** Function keys give you access to a group of commands throughout the BIOS utility.

Function	Command	Description
F1	Help	Gives the list of options available for each item.
Shift F2	Color	Change the color of the display window.
F5	Old values	Restore the old values. These are the values that the user started the current session with.
F7	Load Setup Defaults	Loads all options with the Power-On default values.
F10	Save & Exit Setup	Saves your changes and reboots the system.
[Esc]	Quit	Lets you return at anytime and from any location to the Main Menu.

### SAVE AND EXIT SETUP

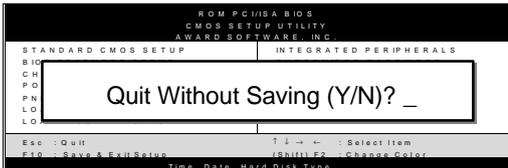
Select the [SAVE & EXIT SETUP] option from the Main Menu to save data to CMOS and exit the setup utility. This option saves all your changes and causes the system to reboot.



Type [Y] to save the changes and exit or [N] to return to the Main Menu and keep current values.

### EXIT WITHOUT SAVING

Selecting the [EXIT WITHOUT SAVING] option allows you to abandon all data and exit setup, therefore ignoring all your changes.



Type [Y] to abandon changes and exit or [N] to return to the Main Menu and keep current values.

### 3-1 SOYO COMBO SETUP

This Motherboard does not use any hardware jumpers to set the CPU frequency. Instead, CPU settings are software configurable with the BIOS **[SOYO COMBO SETUP]**.

After the hardware installation is complete, turn the power switch on, then press the <DEL> key during the system diagnostic checks to enter the Award BIOS Setup program. The CMOS SETUP UTILITY will display on screen. Then, select the **[SOYO COMBO SETUP]** option from the main menu and press the <Enter> key.

ROM PCI/ISA BIOS			
SOYO COMBO SETUP			
AWARD SOFTWARE, INC.			
CPU Speed	: 366 MHz ( x5.5)	CPU Warning Temperature	: Disabled
Host Clock (CPU/PCI)	: 66/33 MHz	Current CPU Temperature	: 28 ½ C / 82 ½ F
DRAM Clock	: Host CLK	Current System Temp.	: 26 ½ C / 78 ½ F
SDRAM Cycle Length	: 2	Current CPUFAN1 Speed	: 5433 RPM
Read Around Write	: Disable	Current CPUFAN2 Speed	: 0 RPM
Boot Sequence	: A,C,SCSI	Vcore (V)	: 1.98 V VTT (V) : 1.50 V
Quick Power On Self Test	: Enabled	3.3 (V)	: 3.55 V + 5 (V) : 4.94 V
POWER ON Function	: BUTTON ONLY	+ 12 (V)	: 11.97 V - 12 (V) : -12.04 V
Soft – Off by PWRBTN	: Instant-Off	- 5 (V)	: -0.02 V VBAT (V) : 1.98 V
Wake Up On Ring/LAN	: Disabled	ESC : Quit      ↑ ↓ → ← : Select Item:	
RTC Alarm Resume	: Disabled	F1 : Help	PU / PD / + / - : Modify
AGP – 2X Mode	: Enabled	F5 : Old Values	(Shift) F2 : Color
		F7 : Load Setup Defaults	

The **[SOYO COMBO SETUP]** menu combines the main parameters that you need to configure, all in one menu, for a quick setup in BIOS.

**3-1.1 Quick CPU Frequency Setup**

Quick CPU Frequency Setup	Setting	Description	Note
<b>CPU Speed</b>	300MHz (66 x 4.5)	The BIOS will display your CPU's standard values here. The user can not change the multiplier (because it fixed in the Socket 370 CPU.) The CPU host clock can be change in the Host Clock item.	
	333MHz (66 x 5)		
	366MHz (66 x 5.5)		
	400MHz (66 x 6)		
	433MHz (66 x 6.5)		
<b>PCI/AGP Clock</b>	Under this item you find the frequencies your PCI and AGP slots run at. These frequencies are derived from the CPU host clock in the following way: CPU host clock > 100MHz PCI = CPU host clock /3, CPU host clock < 100MHz PCI = CPU host clock /2,		
<b>Host Clock (CPU/PCI)</b>	66/33 MHz	Please select your CPU host clock frequency here. Note that only 66 and 100MHz are standard frequencies, all other settings will overclock your CPU.	
	75/37 MHz		
	83/41 MHz		
	100/33 MHz		
	103/34 MHz		
	112/37 MHz		
	124/41 MHz		
	133/44 MHz		
	124/31 MHz		
	133/33 MHz		
<b>DRAM Clock</b>	Host CLK	This item sets the frequency your DRAM memory runs at. HOST CLK is the fastest setting, set to AGP CLK if you are using slow memory modules.	Default

3-1.2 DRAM Control Settings

DRAM Control Settings	Setting	Description	Note
SDRAM Cycle Length	2	When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing. Do not reset this field from the default value specified by the system designer.	Default
	3		
Read Around Write	Disabled	DRAM optimization feature: If a memory read is addressed to a location whose latest write is being held in a buffer before being written to memory, the read is satisfied through the buffer contents, and the read is not sent to the DRAM	Default
	Enabled		

3-1.3 System Boot Control Settings

System Boot Control Settings	Setting	Description	Note
Boot Sequence	A, C, SCSI	Choose the boot sequence adapted to your needs, for example: <ul style="list-style-type: none"> <li>• [A, C, SCSI] means the BIOS will look for an operating system first in drive A, then in drive C, and eventually in SCSI device.</li> </ul>	
	C, A, SCSI		
	C, CDROM, A		
	CDROM, C, A		
	D, A, SCSI		
	E, A, SCSI		
	F, A, SCSI		
	SCSI, A, C		
	SCSI, C, A		
	C only		
LS/ZIP, C			
Quick Power On Self Test	Disabled	Provides a fast POTS at boot-up.	Default
	Enabled		

3-1.4 Power Management

PM Events	Setting	Description	Note
<b>POWER ON Function</b>	BUTTON-ONLY	Disables the Wake-Up by Keyboard function.	Default
	KB Power ON Password	Enables you to wake-up the system by entering a password at the keyboard.	
	Hot Key	You can wake-up the system by pressing the key combination of your choice (Ctrl-F1~F12).	
If [POWER ON Function] is set to [KB Power ON Password]			
<b>KB Power ON Password</b>	Enter (your password)	Set the password that will wake-up your system.	
If [POWER ON Function] is set to [Hot Key]			
<b>Hot Key</b>	Ctrl-F1~F12	Choose the key combination that will wake-up the system. [Ctrl-F1 to Ctrl-F12]	
<b>Soft-Off by PWR-BTTN</b>	Instant-off		Default
	Delay 4 Sec.	Turns off the system power 4 seconds after pushing the power button.	
<b>Wake Up On Ring/LAN</b>	Disabled		
	Enabled	An input signal on the serial Ring Indicator (RI) line (in other words, an incoming call on the modem) awakens the system from a soft off state.	Default
<b>RTC Alarm Resume</b>	Disabled	The system ignores the alarm.	Default
	Enabled	Set alarm to power on the system by the date (1-31) or time (hh:mm:ss). If the date is set to [0], the system will self-power on by alarm everyday at the set time.	

3-1.5 CPU Device Monitoring

<b>CPU Device Monitoring</b>	<b>Setting</b>	<b>Description</b>	<b>Note</b>
<b>AGP – 2X Mode</b>	Disabled		
	Enabled	Enable only if your AGP card supports 2x mode (faster)	Default
<b>CPU Warning Temperature</b>	Disabled		Default
	Enabled	Set CPU temperature from 50°C to 70°C. The CPU will slow down when CPU temperature goes beyond the preset value. The CPU will continue to run slow until the temperature returns back within the safe range.	
<b>Current CPU Temperature</b>	°C/°F	Show the current status of CPU temperature.	
<b>Current System Temp.</b>	°C/°F	Show the current status of the system temperature.	
<b>Current CPUFAN1 Speed</b>	°C/°F	Show the current status of CPU Fan	
<b>Current CPUFAN2 Speed</b>	°C/°F	Show the current status of the chassis Fan	
<b>Vcore, VTT, 3.3V, +12V, -5V, +5V, -12V, VBAT</b>	V	Show the current voltage status.	

### 3-2 STANDARD CMOS SETUP

Select the [STANDARD CMOS SETUP] option from the Main Menu and press [Enter] key.

ROM PCI/ISA BIOS STANDARD CMOS SETUP AWARD SOFTWARE, INC.									
Date (mm:dd:yy)	: Thu, Jan 1 1998								
Time (hh:mm:ss)	: 1 : 9 :25								
<b>HARD DISKS</b>	<b>TYPE</b>	<b>SIZE</b>	<b>CYLS</b>	<b>HEAD</b>	<b>PRECOMP</b>	<b>LANDZ</b>	<b>SECTOR</b>	<b>MODE</b>	
Primary Master	: Auto	0	0	0	0	0	0	0	AUTO
Primary Slave	: Auto	0	0	0	0	0	0	0	AUTO
Secondary Master	: Auto	0	0	0	0	0	0	0	AUTO
Secondary Slave	: Auto	0	0	0	0	0	0	0	AUTO
Drive A	: 1.44M, 3.5 in.								
Drive B	: None								
Floppy 3 Mode Support	: Disabled				Base Memory:		640K		
					Extended Memory:		31744K		
					Other Memory:		384K		
Video	: EGA/VGA								
Halt On	: All, But Keyboard								
ESC : Quit					↑ ↓ → ← : Select Item		PU / PD / + / - : Modify		
F1 : Help					(Shift) F2 : Change Color				

This screen allows you to modify the basic CMOS settings. After you have completed the changes, press [Esc] key to return to the Main Menu.

3-2.1 Date & Time

	Display	Setting	Please Note
<b>Date</b>	mm/dd/yyyy	Type the current date	You can also the PUp/PDn keys to toggle
<b>Time</b>	hh:mm:ss	Type the current time	24-hour clock format 3:15 PM is displayed as 15:15:00

3-2.2 Hard Disks Type & Mode

Choose the type and mode for the hard disks that you have already installed.

Primary (Secondary) Master & Slave	Setting	Description	Note
<b>Type</b>	Auto	BIOS detects hard disk type automatically.	Default
	User	User defines the type of hard disk.	
	None		
<b>Mode</b>	Auto	BIOS detects hard disk mode automatically.	Default
	Normal	Normal IDE hard disk	<528MB
	LBA	Enhanced IDE hard disk	>528MB
	Large	Large IDE hard disk (for certain hard disk)	



**Note:** If you have any questions on your hard disk type or mode, ask your hard disk provider or previous user for details.

### 3-2.3 Floppy Drives

Floppy Drives	Setting	Description	Note
<b>Drives A &amp; B</b>	360KB, 5.25 in.		
	1.2MB, 5.25 in.		
	720KB, 3.5 in.		
	1.44MB, 3.5 in.		Default
	2.88MB, 3.5 in.		
	None	Not installed	
<b>Floppy 3-Mode Support</b>	Disabled		Default
	Drive A	Supports 3-mode floppy diskette: 740KB/1.2MB/1.44MB on selected disk drive.	Special disk drive commonly used in Japan
	Drive B		
Both			

### 3-2.4 Video

Select the video mode: EGA/VGA (Default), CGA 40, CGA 80, Mono (Monochrome).

### 3-2.5 Halt On

When the BIOS detects system errors, this function will stop the system. Select which type of error will cause the system halt: All Errors (Default), No Errors, All But Diskette, All But Keyboard, All But Disk/Key.

### 3-3 BIOS FEATURES SETUP

Select the [BIOS FEATURES SETUP] option from the Main Menu and press [Enter] key.

ROM PCI/ISA BIOS			
BIOS FEATURES SETUP			
AWARD SOFTWARE, INC.			
Virus Warning	: Disabled	OS Select For DRAM > 64 MB	: Non-OS2
CPU Internal Cache	: Enabled	HDD S.M.A.R.T. capability	: Disabled
External Cache	: Enabled	Video BIOS Shadow	: Enabled
Swap Floppy Drive	: Disabled	C8000-CBFFF Shadow	: Disabled
Boot Up NumLock Status	: On	CC000-CFFF Shadow	: Disabled
Report No FDD For WIN 95	: Yes	D000-D3FFF Shadow	: Disabled
IDE HDD Block Mode	: Enabled	D4000-D7FFF Shadow	: Disabled
Typematic Rate Setting	: Disabled	D8000-DBFFF Shadow	: Disabled
Typematic Rate (Chars/Sec)	: 6	DC000-DFFFF Shadow	: Disabled
Typematic Delay (Msec)	: 250		
Security Option	: Setup	ESC	: Quit      ↑ ↓ → ← : Select Item
PCI/VGA Palette Snoop	: Disabled	F1	: Help      PU/PD/+/- : Modify
		F5	: Old Values   (Shift) F2 : Color
		F7	: Load Setup Defaults

After you have completed the changes, press [Esc] key and follow the instructions on your screen to save your settings or exit without saving.

**3-3.1 Virus Warning**

	<b>Setting</b>	<b>Description</b>	<b>Note</b>
<b>Virus Warning</b>	Disabled		Default
	Enabled	Enable this option to protect the boot sectors and partition tables of your hard disk. Any attempt to write to them will the system to halt and display a warning message.	

**3-3.2 Cache Memory Options**

	<b>Setting</b>	<b>Description</b>	<b>Note</b>
<b>CPU Internal Cache</b>	Disabled		
	Enabled	Enables the CPU's internal cache.	Default
<b>External Cache</b>	Disabled		
	Enabled	Enables the external memory.	Default

**3-3.3 System Boot Control Settings**

	<b>Setting</b>	<b>Description</b>	<b>Note</b>
<b>System Boot Control Settings</b>			
<b>Swap Floppy Drive</b>	Disabled		Default
	Enabled	Changes the sequence of A and B drives.	
<b>Boot Up NumLock Status</b>	On	Puts numeric keypad in NumLock mode at boot-up.	Default
	Off	Puts numeric keypad in arrow key mode at boot-up.	

3-3.4 Other Control Options

Other Control Options	Setting	Description	Note
<b>Report No FDD For WIN 95</b>	Yes	Windows will release IRQ line 6 (normally used by the Floppy Disk Drive) after you disable your on-board FDD and set this field to [Yes].	Default
	No	Windows will reserve INT 6 for your FDD, whether it is disabled or not.	
<b>IDE HDD Block Mode</b>	Disabled	Invokes multi-sector transfer instead of one sector per transfer. Not all HDDs support this funcion.	Default
	Enabled		

3-3.5 Typematic Settings

Typematic Settings	Setting	Description	Note
<b>Typematic Rate Setting</b>	Disabled		Default
	Enabled	Enables to adjust the keystroke repeat rate.	
The following [Typematic Rate] and [Typematic Delay] fields are active only if [Typematic Rate Setting] is set to [Enabled]			
<b>Typematic Rate</b>	6 (Char/sec)	Choose the rate at which a character is repeated when holding down a key.	Default
	8 (Char/sec)		
	10 (Char/sec)		
	12 (Char/sec)		
	15 (Char/sec)		
	20 (Char/sec)		
	24 (Char/sec)		
30 (Char/sec)			
<b>Typematic Delay</b>	250 (msec)	Choose how long after you press a key down the character begins repeating.	Default
	500 (msec)		
	750 (msec)		
	1000 (msec)		

### 3-3.6 Security Option

Use this feature to prevent unauthorized system boot-up or use of BIOS Setup. The following table describes the security settings.

	Setting	Description	Note
<b>Security Option</b>	System	Each time the system is booted, the password prompt appears.	
	Setup	If a password is set, the password prompt only appears when you attempt to enter the BIOS Setup program.	Default

### 3-3.7 Other Control Options

Other Control Options	Setting	Description	Note
<b>PCI/VGA Palette Snoop</b>	Disabled		Default
	Enabled	The color of the monitor may be altered when using an MPEG card. Enable this option to restore the monitor's normal color.	
<b>OS Select for DRAM&gt;64M B</b>	OS2	When using an OS2 operating system.	
	Non-OS2	When using another, non-OS2 operating system.	Default
<b>HDD S.M.A.R.T. capability</b>	Disabled		
	Enabled	Enable this field when your HDD supports the S.M.A.R.T. function. Consult your HDD provider for details.	
<b>Video BIOS Shadow</b>	Disabled		
	Enabled	The BIOS is shadowed in a 16K segment if it is enabled and if it has BIOS present. These 16 segments can be shadowed from ROM to RAM. BIOS shadow copies BIOS code from slower ROM to faster RAM. BIOS can then execute from RAM.	Default

### 3-4 CHIPSET FEATURES SETUP



**Caution:** Change these settings only if you are already familiar with the Chipset.

The [CHIPSET FEATURES SETUP] option changes the values of the chipset registers. These registers control the system options in the computer.

ROM PCI/ISA BIOS CMOS SETUP UTILITY CHIPSET FEATURES SETUP	
Memory Hole	: Disabled
Concurrent PCI/Host	: Disabled
CPU-to-DRAM WR Buffer	: 4
System BIOS Cacheable	: Disabled
Video RAM cacheable	: Disabled
AGP Aperture Size	: 64M
OnChip USB	: Enabled
USB Keyboard Support	: Enabled
Spread Spectrum Modulated	: Disabled
ESC : Quit                    ↑ ↓ → ← : Select Item F1 : Help                    PU/PD/+/- : Modify F5 : Old Values            (Shift) F2 : Color F7 : Load Setup Defaults	

After you have completed the changes, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.

The following table describes each field in the CHIPSET FEATURES SETUP Menu and how to configure each parameter.

## 3-4.1 CHIPSET FEATURES SETUP

CHIPSET FEATURES	Setting	Description	Note
<b>Memory Hole</b>	Disabled		Default
	15M -16M	Some interface cards will map their ROM address to this area. If this occurs, select 15M –16M in this field.	
<b>Concurrent PCI/Host</b>	Disabled	When disabled, CPU bus will be occupied during the entire PCI operation period.	Default
	Enabled		
<b>CPU-to-DRAM WR Buffer</b>	1	Set the CPU-to DRAM Post-Write Buffer Depth.	Default
	4		
<b>System BIOS Cacheable</b>	Disabled		Default
	Enabled	The ROM area F0000H-FFFFFFH is cacheable.	
<b>Video RAM Cacheable</b>	Disabled		Default
	Enabled	The ROM area A0000-BFFFF is cacheable.	
<b>AGP Aperture Size</b>	64 4-128MB	AGP could use the DRAM as its video RAM. Choose the DRAM size that you wish to allocate as video RAM.	Default
<b>OnChip USB</b>	Disabled	Disable if you use a separate USB controller card	
	Enabled		Default

**CHIPSET FEATURES SETUP (Continued)**

<b>CHIPSET FEATURES</b>	<b>Setting</b>	<b>Description</b>	<b>Note</b>
<b>USB Keyboard Support</b>	Disabled		
	Enabled	Enabled if you use an USB Keyboard.	Default
<b>Spread Spectrum Modulated</b>	Disabled		Default
	Enabled	When using Spread Spectrum Modulated 1.5% or 6% for FCC or DOC testing.	

### 3-5 POWER MANAGEMENT SETUP

The [POWER MANAGEMENT SETUP] sets the system's power saving functions.

ROM PCI/ISA BIOS			
POWER MANAGEMENT SETUP			
AWARD SOFTWARE, INC.			
ACPI function	: Enabled	Primary INTR	: OFF
PM Control by APM	: Yes	IRQ3 (COM 2)	: Primary
Video Off Option	: Suspend -> Off	IRQ4 (COM 1)	: Primary
Video Off Method	: V/H SYNC+Blank	IRQ5 (LPT 2)	: Primary
MODEM Use IRQ	: 3	IRQ6 (FLOPPY DISK)	: Primary
		IRQ7 (LPT 1)	: Primary
Power Management	: User Define	IRQ8 (RTC Alarm)	: Disabled
HDD Power Down	: Disable	IRQ9 (IRQ2 Redir)	: Secondary
Doze Mode	: Disable	IRQ10 (Reserved)	: Secondary
Suspend Mode	: Disable	IRQ11 (Reserved)	: Secondary
		IRQ12 (PS/2 Mouse)	: Primary
** PM Events **		IRQ13 (Coprocesor)	: Primary
VGA	: OFF	IRQ14 (Hard Disk)	: Primary
LPT & COM	: LPT/COM	IRQ15 (Reserved)	: Disabled
HDD & FDD	: ON		
DMA/master	: OFF	ESC	: Quit      ↑ ↓ → ← : Select Item
		F1	: Help      PU/PD/+/- : Modify
		F5	: Old Values    (Shift) F2 : Color
		F7	: Load Setup Defaults

After you have completed the Power Management Setup, press [Esc] to return to the Main Menu.

3-5.1 Power Management Controls

Power Management Controls	Setting	Description	Note		
ACPI function	Disabled		Default		
	Enabled	ACPI (Advanced Configuration Power Management Interface)			
PM Control by APM	Yes	To use Advanced Power Management (APM) you must run [power.exe] under DOS V6.0 or later version.	Default		
	No				
Video Off Option	Suspend ->Off	This feature allows the VGA adapter to operate in a power saving mode.			
	All Modes -> Off				
	Always				
Video Off Method	V/H Sync+Blank	Selects the method by which the monitor is blanked.	Default		
	Blank screen				
	DPMS Supported				
MODEM Use IRQ	3	Assigns an IRQ# to the modem device.	Default		
	3-11, NA				
Power Management	User Define	Lets you define the HDD and system power down times.	Default		
	Disable	Disables the Green PC Features.			
		Doze timer	Standby timer	Suspend timer	HDD power down
	Min Saving	1 Hour	1 Hour	1 Hour	15 Min
Max Saving	1 Min	1 Min	1 Min	1 Min	

## 3-5.2 PM Timers

PM Timers	Setting	Description	Note
The following [HDD Power Down] field may be configured only if [Power Management] is set to [User Define]			
<b>HDD Power Down</b>	Disabled		Default
	1-15Min	When the set time has elapsed, BIOS sends a command to the HDD to power down. This turns off the HDD motor.	Some older model HDDs may not support this advanced function.
The following [Doze Mode] field may be configured only if [Power Management] is set to [User Define]			
<b>Doze Mode</b>	Disable		Default
	1Min-1Hour	When the set time has elapsed, BIOS sends a command to the system to enter Doze Mode.	System clock drops to 33MHz.
The following [Suspend Mode] field may be configured only if [Power Management] is set to [User Define]			
<b>Suspend Mode</b>	Disable		Default
	1Min-1Hour	In Suspend mode, the CPU stops completely (no instructions are executed.)	Only an SL-Enhanced (or SMI) CPU can enter this mode.

3-5.3 PM Events

PM Events	Setting	Description	Note
<b>VGA</b>	ON	When Enabled, your can set the LAN awakens the system.	
	OFF		
<b>LPT &amp; COM</b>	NONE LPT COM LPT/COM	When On of LPT & COM, any activity from one of the listed system peripheral devices or IRQs wakes up the system.	
<b>HDD &amp; FDD</b>	ON	When On of HDD & FDD, any activity from one of the listed system peripheral devices wakes up the system.	
	OFF		
<b>DMA/master</b>	ON	When you are On of DMA/ Master, any activity from one of the list system peripheral devices wakes up the system.	
	OFF		
<b>Primary INTR</b>	ON	When set to On, any event occurring at will awaken a system which has been powered down. The following is a list of IRQ' s, Interrupt ReQuests, which can be exempted much as the COM ports and LPT ports above can. When an I/O device wants to gain the attention of the operating system, it signals this by causing an IRQ to occur. When the operating system is ready to respond to the request, it interrupts itself and performs the service.	Default
	OFF		

### 3-6 PNP/PCI CONFIGURATION SETUP

This option sets the Motherboard's PCI Slots.

ROM PCI/ISA BIOS					
PNP/PCI CONFIGURATION					
AWARD SOFTWARE, INC.					
Resources Controlled By	:	Manual	PCI IRQ Activated By	:	Level
Reset Configuration Data	:	Disabled	Assign IRQ For USB	:	Enabled
			Assign IRQ For VGA	:	Enabled
IRQ - 3	assigned to	:	Legacy ISA		
IRQ - 4	assigned to	:	Legacy ISA		
IRQ - 5	assigned to	:	PCI/ISA PnP		
IRQ - 7	assigned to	:	PCI/ISA PnP		
IRQ - 9	assigned to	:	PCI/ISA PnP		
IRQ - 10	assigned to	:	PCI/ISA PnP		
IRQ - 11	assigned to	:	PCI/ISA PnP		
IRQ - 12	assigned to	:	PCI/ISA PnP		
IRQ - 14	assigned to	:	PCI/ISA PnP		
IRQ - 15	assigned to	:	PCI/ISA PnP		
			PNP OS Installed	:	No
DMA - 0	assigned to	:	PCI/ISA PnP		
DMA - 1	assigned to	:	PCI/ISA PnP		
DMA - 3	assigned to	:	PCI/ISA PnP		
DMA - 5	assigned to	:	PCI/ISA PnP		
DMA - 6	assigned to	:	PCI/ISA PnP		
DMA - 7	assigned to	:	PCI/ISA PnP		
			ESC	:	Quit
			F1	:	Help
			F5	:	Old Values
			F7	:	Load Setup Defaults
			↑ ↓ → ←	:	Select Item
			PU/PD/+/-	:	Modify
			(Shift) F2	:	Color

After you have completed the PCI Slot Configuration, press [Esc] and follow the instructions on your screen to save your settings or exit without saving.

### 3-6.1 PNP/PCI Configuration Controls

PNP/PCI Controls	Setting	Description	Note
Resources Controlled By	Manual	BIOS does not manage PCI/ISA PnP card IRQ assignment. Requires to assign IRQ-# and DMA-# to PCI or ISA PnP manually. IRQ-3,4,5,7,9,10,11,12,14,15 assigned to: _ DMA-0,1,3,5,6,7 assigned to: _	
	Auto	The Plug-and-Play BIOS auto manages PCI/ISA PnP card IRQ assignment automatically.	Recommended
Reset Configuration Data	Disabled	Retain PnP configuration data in BIOS.	Default
	Enabled	Reset PnP configuration data in BIOS.	

### 3-6.2 PNP/PCI Configuration Setup

PNP/PCI Setup	Setting	Description	Note
If [Resources Controlled By] is set to [Manual]			
IRQ-# and DMA-# assigned to:	PCI/ISA PnP	Choose IRQ-# and DMA-# assigned to PCI/ISA PnP card.	IRQ-3,4,5,7,9,10,11,12,14,15 DMA-0,1,3,5,6,7
	Legacy ISA	Choose IRQ-# and DMA-# assigned to Legacy ISA card.	IRQ-3,4,5,7,9,10,11,12,14,15 DMA-0,1,3,5,6,7

### 3-6.3 PCI Slot Configuration

PCI Slot Configuration	Setting	Description	Note
<b>PCI IRQ Activated By</b>	Level	This sets the method by which the PCI bus recognizes that an IRQ service is being requested by a device. Under all circumstances, you should retain the default configuration unless advised otherwise by your system's manufacturer.	
	Edge		
<b>Assign IRQ For USB</b>	Enabled	BIOS will assign IRQ for USB port.	Default
	Disabled	BIOS won't assign IRQ for USB port.	
<b>Assign IRQ For VGA</b>	Enabled	BIOS will assign IRQ for VGA port.	Default
	Disabled	BIOS won't assign IRQ for VGA port.	
<b>PNP OS Installed</b>	Yes	This item allows you to determine install PnP OS or not.	Default
	No		



### 3-8 INTEGRATED PERIPHERALS



**Caution:** Change these settings only if you are already familiar with the Chipset.

The [INTEGRATED PERIPHERALS] option changes the values of the chipset registers. These registers control the system options in the computer.

The following screen shows setup default settings.

ROM PCI/ISA BIOS		INTEGRATED PWEIPHERALS	
AWARD SOFTWARE, INC.			
OnChip IDE Channel0	: Enabled	Onboard Parallel Port	: 378/IRQ7
OnChip IDE Channel1	: Enabled	Parallel Port Mode	: SPP
IDE Prefetch Mode	: Enabled		
Primary Master PIO	: Auto	Power On After PWR-Fail	: Off
Primary Slave PIO	: Auto		
Secondary Master PIO	: Auto		
Secondary Slave PIO	: Auto		
Primary Master UDMA	: Auto		
Primary Slave UDMA	: Auto		
Primary Master UNMA	: Auto		
Primary Slave UDMA	: Auto		
Init Display First	: PCI Slot		
KBC input clock	: 12 MHz		
Onboard FDC Controller	: Enabled	ESC	: Quit
Onboard Serial Port 1	: 3F8/IRQ4	F1	: Help
Onboard Serial Port 2	: 2F8/IRQ3	F5	: Old Values (Shift) F2 : Color
UART Mode Select	: Normal	F7	: Load Setup Defaults
			↑ ↓ → ← : Select Item
			PU/PD/+/- : Modify

The following tables describe each field in the INTEGRATED PERIPHERALS Menu and provide instructions on how to configure the IDE controls, FDC controls, and the onboard serial and parallel ports.

3-8.1 IDE Device Controls

IDE Controls	Setting	Description	Note
<b>On-Chip PCI IDE</b> ➤ Primary ➤ Secondary	Disabled	Turn off the on-board IDE	
	Enabled	Use the on-board IDE	Default
<b>IDE Prefetch Mode</b>	Disabled	The onboard IDE drive interfaces supports IDE prefetching, for faster drive accesses. If you install a primary and/or secondary add-in IDE interface, set this field to <i>Disabled</i> if the interface does not support prefetching	
	Enabled		Default
➤ Primary Master PIO ➤ Primary Slave PIO ➤ Secondary Master PIO ➤ Secondary Slave PIO	mode 0-4	0 is the slowest speed 4 is the fastest speed	
	Auto	For better performance and stability, we suggest you use the Auto setting to set the HDD control timing.	Default
➤Primary Master UDMA ➤Primary Slave UDMA ➤Secondary Master UDMA ➤Secondary Slave UDMA	Disabled		
	Auto	Select Auto to enable Ultra DMA Mode support.	Default

3-8.2 Init Display Controls

Init Display Controls	Setting	Description	Note
<b>Init Display First</b>	PCI Slot AGP	Choose which card – AGP Display card or PCI VGA card – to initialize first.	Default

3-8.3 Keyboard Controls

Keyboard Controls	Setting	Description	Note
KBC input clock	12 MHz	Set the frequency for the keyboard controller input clock	Default
	8MHz,		
	16 MHz		

3-8.4 FDC Controls

FDC Controls	Setting	Description	Note
Onboard FDC controller	Disabled	Turn off the on-board floppy controller	
	Enabled	Use the on-board floppy controller	Default

3-8.5 Onboard Serial Ports

Onboard Serial Ports	Setting	Description	Note
Onboard Serial Port 1 Onboard Serial Port 2	Disabled	Choose serial port 1 & 2's I/O address. Do not set port 1 & 2 to the same address except for Disabled or Auto.	Default (port 1) Default (port 2)
	3F8/IRQ4		
	2F8/IRQ3		
	3E8/IRQ4		
	2E8/IRQ3		
	Auto		
UART Mode Select	Normal	This item allows you to determine which Infra Red (IR) function of onboard I/O chip.	Default
	IrDA 1.0		
	ASKIR		
If [UR2 Mode] is set to [IrDA 1.0]/[ASKIR]			
UR2 Duplex Mode	Half	Choose [Half] or [Duplex] to set UR2 in half duplex mode or full duplex mode respectively. Refer to your IR device specifications to select the suitable mode.	Default
	Duplex		

3-8.6 Onboard Parallel Ports

Onboard Parallel Ports	Setting	Description	Note
Onboard Parallel Port	378H/IRQ7	Choose the printer I/O address.	Default
	3BCH/IRQ7		
	278H/IRQ5		
Parallel Port Mode	ECP/EPP	The mode depends on your external device that connects to this port.	Default
	SPP		
	ECP		
	EPP/SPP		
If [Parallel Port Mode] is set to [ECP] mode			
ECP Mode use DMA	3	Choose DMA3	Default
	1	Choose DMA1	

3-8.7 Other Control Options

Other Control Options	Setting	Description	Note
PWRON After PWR-Fail	On	The system will switch on when power comes back after a power failure.	
	Off	The system will remain off when power comes back after a power failure.	Default
	Former-sts	The system will return to the state it was in before the power failure when power returns. (i.e: If the system was on, it will switch on again, if it was off, it will remain off)	

### 3-8.8 MULTI I/O ADDRESSES

Default settings for multi-I/O addresses are as follows:

Port	I/O Address	IRQ	Status
LPT1	378H	7	ECP/EPP
COM1	3F8H	4	
COM2	2F8H	3	



**Warning:** If a default I/O address conflicts with other I/O cards such as sound card, you must change one of the I/O addresses to remedy to this address conflict. (I/O addresses can be adjusted from the BIOS Setup Utility)

### 3-9 SUPERVISOR PASSWORD

Based on the setting you have made in the [Security Option] of the [BIOS FEATURES SETUP] section, the password prevents access to the system or the setup program by unauthorized users. Follow this procedure to set a new password or disable the password:

1. Choose [BIOS FEATURES SETUP] in the Main Menu and press [Enter]. Select the [Security Options] item and set the field to:
  - a. [System]: The password is required every time the system is booted. This means only a person who knows the password can use this computer.
  - b. [Setup]: The password is required only when you attempt to enter the BIOS Setup program.
2. Choose [SUPERVISOR PASSWORD] from the Main Menu and press [Enter]. The following prompt appear:

Enter Password:



---

**Warning:** If you forget or lose the password, the only way to access the system is to set jumper JP5 to clear the CMOS RAM. All setup information is lost and you must run the BIOS setup program again.

---



---

**Note:** If you do not wish to use the password function, press [Enter] directly and the following message appears:

Password Disabled!!

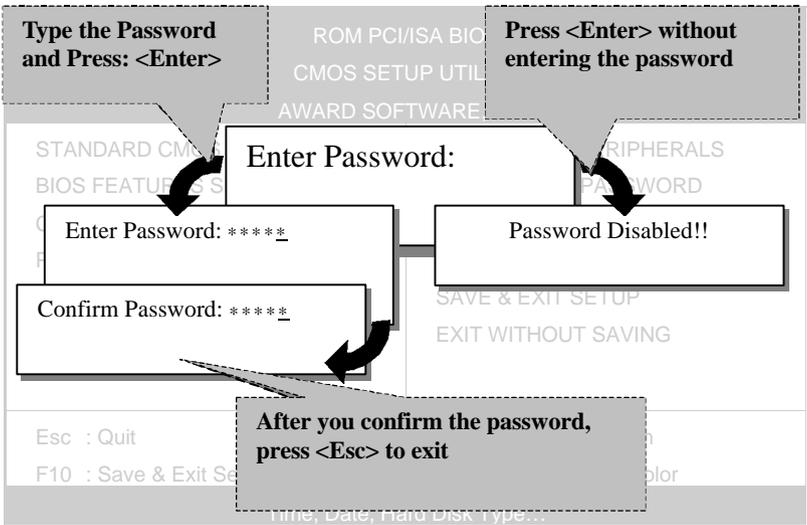
---

- 3. Enter your new password and press [Enter]. The following message appears, prompting to confirm the new password:

Confirm Password:

- 4. Re-enter your password and then press [Enter] to exit to the Main Menu.

This diagram outlines the password selection procedure:



### 3-10 USER PASSWORD

When the user password option is on, you are not allowed to change any setting in the [CMOS SETUP UTILITY] except for changing the user's password.

The password setting procedure is similar to that for the [SUPERVISOR PASSWORD] (Refer to section 3-9).

### 3-11 IDE HDD AUTO DETECTION

This Main Menu function automatically detects the hard disk type and configures the STANDARD CMOS SETUP accordingly.

**ROM PCI/ISA BIOS  
CMOS SETUP UTILITY  
AWARD SOFTWARE, INC.**

HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master :								
Select Primary Master Option (N=Skip) : N								
OPTIONS	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE	
2(Y)	1707	827	64	0	3308	63	LBA	
1	1707	3309	16	65535	3308	63	NORMAL	
3	1707	827	64	65535	3308	63	LARGE	

Note: Some Oses( SCO-UNIX Before v5.0) must use "NORMAL" for installation

ESC : Skip



**Note:** This function is only valid for IDE type of hard disk drives.

## Chapter 4

### 3D PnP AUDIO ONBOARD

#### 4-1 ONBOARD JOYSTICK PORT

A joystick, in computer graphics, is a lever with at least two degrees of freedom used as an input device. The joystick is normally used as a locator in at least a 2-D plane.

The joystick device is most widely used in video games applications. Attach the joystick cable to the 15-pin JOYSTICK port at the rear panel of your Motherboard.

#### 4-2 ONBOARD AUDIO

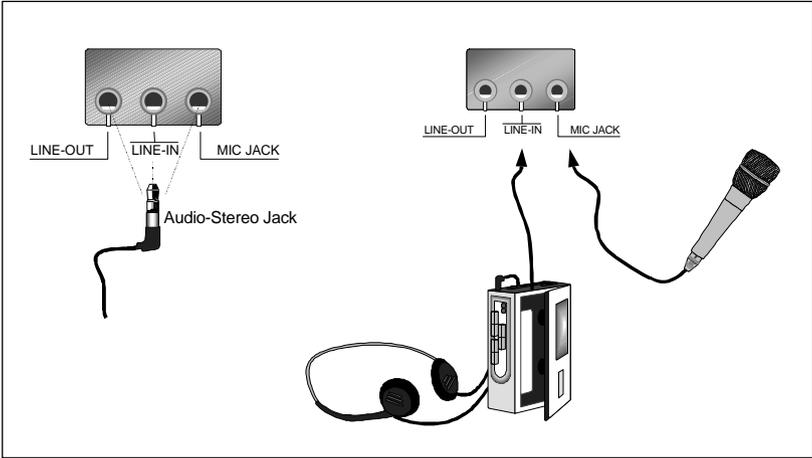
This Motherboard features three built-in audio-stereo ports (labeled line-in, line-out, and mic jack) convenient to directly plug-in all your external audio devices. Your SY-6VZA Motherboard is making use of the CREATIVE™ES1373 sound chipset technology and applications programs.

**Note:** Please refer to *Chapter 5 and Chapter 6- Onboard Sound Driver Installation* for a detailed procedure on how to install the audio driver depending on the particular environment ( Win NT 3.5/4.0, Win 95/98) installed on your system.

##### 4-2.1 Connecting your Audio Devices

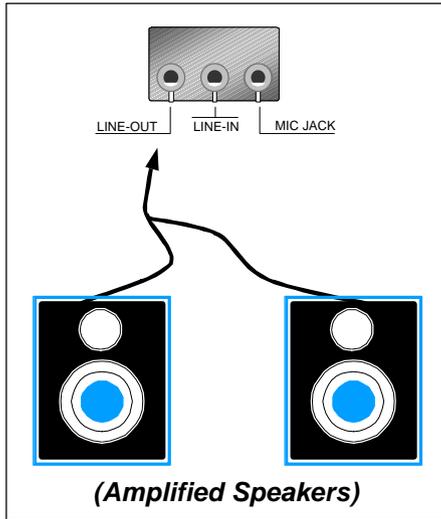
You can connect audio devices to the following ports:

- headphones or pre-amplified speakers to the "line-out" port;
- a line-in device such as CD/Cassette player to the "line-in" port;
- a microphone to the "mic" port.



### 4-2.2 Connecting Speakers

You can connect external speakers to the "Line-out" port on your SY-6VZA Motherboard.



**Note:** This Motherboard requires a speaker with **built-in amplifier (Amplified Speaker)** to generate proper output sound volume.

## Chapter 5

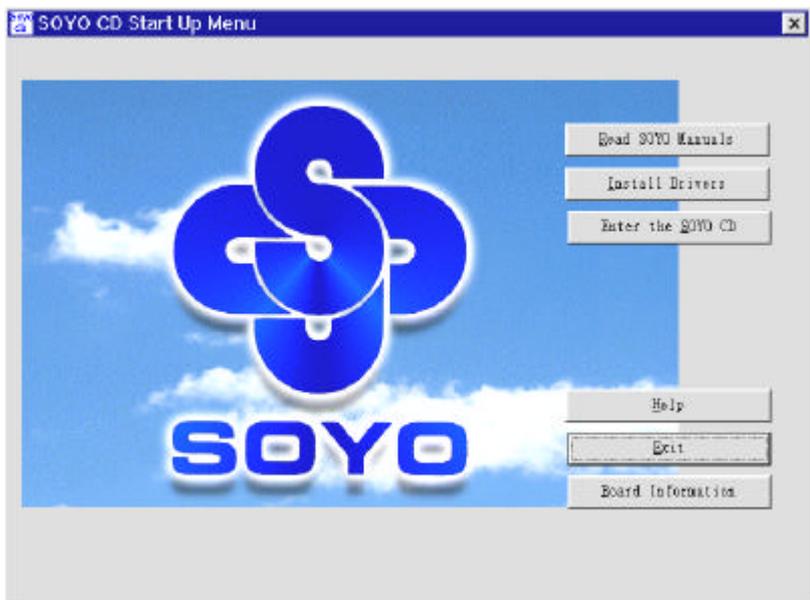
### DRIVERS INSTALLATION

Your SY-6VZA Motherboard comes with a CD-ROM labeled "SOYO CD." The SOYO CD contains the user's manual file for your new Motherboard, the drivers software available for installation, and a database in HTML format with information on SOYO Motherboards and other products.

The SOYO CD Start Up Program automatically detects which SOYO Motherboard you own and displays the corresponding model name.

#### Step 1. Insert the SOYO CD into the CD-ROM drive

The SOYO CD will auto-run, and the SOYO CD Start Up Menu will display as shown below.



## Step 2. Install Drivers and Utilities

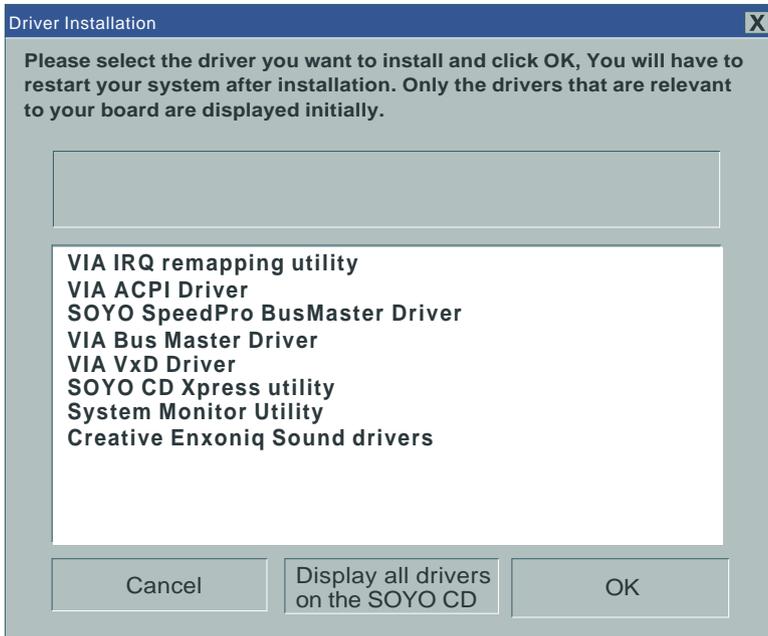
The following describes the best way of installing Windows 95 or Windows 98 on your SY-6VZA Motherboard:

- The following BIOS default settings should not be changed:
  1. The ' OnChip USB Controller' item under ' Chipset features Setup' is set to enabled.
  2. The ' USB Assigned IRQ' item under ' PnP/PCI Configuration is set to enabled.

You **MUST** have these two items enabled for Windows 95/98 to run properly on your system.

- Install Windows 95/98
- After installation of windows, you will need to install theVIA drivers. Follow the instruction below.

Click the **Enter SOYO CD** button to display the list of drivers that can be installed on your Motherboard. The start-up program displays the drivers available for the SY-6VZA and the Windows version you use. For Windows 95 four drivers will be listed (see 'Driver Installation Menu' below), for Windows 98 three drivers will be listed (the ACPI drivers will be left out).



### (Driver Installation Menu)

A short description of all available drivers follows:

➤ **VIA IRQ remapping utility**

This utility will remap the IRQ's in the APOLLO-PRO chipset. For windows 95 and 98.

➤ **VIA ACPI Driver**

This utility will help windows recognize your PCI bridge.

➤ **SOYO SpeedPro Busmaster Driver for Win 95/98**

Without the busmaster drivers the CPU will need to be involved every time data is read from or written to the Harddisk. The busmaster drivers make use of DMA (Direct Memory Access) to relieve the CPU of this burden, thus speeding up the system.

The SOYO SpeedPro driver makes use of an advanced caching algorithm, which gives it an advantage over other busmaster drivers.



**Note: If you install the SOYO SpeedPro Busmaster driver for Windows 95/98, you can NOT install the VIA Bus Master drivers.**

➤ **VIA Bus Master Driver**

This is the VIA busmaster driver for Windows 95/98. Only install ONE type of busmaster driver, and make sure to uninstall your previous busmaster driver first..

➤ **VIA VxD Driver**

This is the VXD driver for the AGP port in your APOLLO-PRO chipset.

➤ **SOYO CD Xpress Utility**

This utility will enhance your CD-ROM Drive data-throughput by using space on the Harddisk as cache. This way application programs can access data faster. This utility is suitable for Windows 95/98.

➤ **System Monitor Utility**

Your motherboard comes with a hardware monitoring IC. By installing this utility Temperature, Fan speed and Voltages can be monitored. It is also possible to set alarms when current system values exceed or fall below pre-set values.

➤ **Creative Ensoniq Sound Drivers**

These drivers have to be installed if the user wants to make use of the on-board Creative Soundchip.

Select which driver you want to install and click **OK**, or click **Cancel** to return to the main menu. When the installation program of a driver starts running the SOYO-CD will exit. After finishing the installation, restart the SOYO-CD and install the next driver. We recommend you to install all drivers, and to do so in the right sequence (top to bottom).

**Note:** Once you have selected a driver, the system will automatically exit the SOYO CD to begin the driver installation program. When the installation is complete, most drivers require to restart your system before they can become active.



**Install the drivers in sequence, starting with the VIA IRQ remapping utility. After installing all drivers above, if you use Windows 95, first install the USB supplement before installing the AGP driver that came with your AGP card. The USB supplement is available on the Windows OSR 2 or above CD in the following directory: \OSR2\usbsupp.exe It also can be downloaded from [www.microsoft.com](http://www.microsoft.com)**

If you want to see all the drivers available on the SOYO –CD, click the **Display all drivers on the SOYO CD** button. Do NOT install drivers that are not suitable for you board, otherwise your system may crash.

### Step 3. Enter the SOYO CD

Click the **Enter SOYO CD** button to enter the SOYO HTML database. The Start Up program will activate the default HTML browser installed on your system (for example, Internet Explorer or Netscape) to visualize the contents of the SOYO CD.

The SOYO CD contains useful information about your Motherboard and other SOYO products available in as many as eleven different languages. For your convenience, this information is available in HTML format, similar to the format widely used on the Internet.



**(SOYO CD HTML Database in English\*)**

(\* The list of menu options may vary between languages)

**Note:** If no HTML browser is installed on your system, the Start Up program will prompt you on whether or not you would like to install the Internet Explorer\* browser. Click YES to install the HTML browser. After the installation is complete, please restart your system. Then re-run the SOYO CD and you will be able to browse the SOYO HTML database.

(\* Internet Explorer is a Microsoft Trademark)

#### **Step 4. Select which driver you want to install and click OK**

**Notice 1:** You may click **Cancel** to abort the driver installation and return to the main menu.

**Notice 2:** Once you have selected a driver, the system will automatically exit the SOYO CD to begin the driver installation program. When the installation is complete, most drivers require you to restart your system before they can become active.

## Chapter 6

# ONBOARD SOUND DRIVER INSTALLATION

### Installing AudioPCI in Windows 95/98

To install the audio drivers in Windows 95/98, insert the SOYO CD into your CD-ROM drive. It will auto-run (If not, run Cdstart.exe in the root of the CD). Now press **the install the 6VZA drivers button**, select 'Creative Ensoniq Sound drivers' and press 'OK'. The driver installation program will be run, follow the instructions on the screen.

### Testing the Installation in Windows 95/98

After the drivers are installed, you can use Windows 95/98 Media Player to test whether your audio card is working properly.

1. Click the [Start] button, point to Programs, point to Accessories, point to Multimedia. (for Windows 98. choose Entertainment) and then click Media Player.
2. On the Device menu, click [Sound].
3. In the Open dialog box, select a sound file from the list, and then click the [Open] button.
4. On the Media Player, click the [Play] option. You should hear the selected sound being played. If you encounter any problems, consult the Troubleshooting section of the online User's Guide.

**Note: If you do not have Media Player, install it by following these instruction:**

1. Click the [Start] button, point to Settings. and then click [Control Panel].
2. In the Control Panel window, double-click the Add/Remove Program icon
3. Click the Windows Setup tab.

4. Select the Multimedia check box, and then click the [Details] button.
5. In the Multimedia dialog box, select the Media Player check box, and then click the [OK] button.
6. Follow the instructions on the screen to complete the installation.

### **Uninstalling Software in Windows 95/98**

1. Click the [Start] men, point to Settings and click [Control Panel].
2. Double-click the Add/Remove Programs icon.
3. On the Install/Uninstall tabbed page, select Sound Blaster AudioPCI 64V.
4. Click the Add/Remove button, and then click the [Yes] button when prompted to remove the software.

### **Installing AudioPCI in Windows NT4.0**

This section shows you how to properly install the audio drivers under Windows NT 4.0. It contains the following sections:

- Installing Software in Windows NT 4.0.
- Testing the Installation in Windows NT 4.0
- Uninstalling AudioPCI in Windows NT 4.0
- Reinstalling the Audio Drivers From the Installation Disc

### **Installing Software in Windows NT 4.0**

#### **To install the software:**

The software installation in NT 4.0o includes the installation of audio drivers.

1. Insert the installation CD into your CD-ROM drive. The AutoPlay screen appears,
2. Follow the instructions on the screen to complete the installation.

#### **Testing the Installation in Windows NT 4.0**

You may run a simple application to test the card's MIDI and wave sound playback. This ensure that the cared is properly installed and that there are no conflicts in the IRQ, DMA, or I/O settings.

#### **To test the installation:**

1. In the Start menu, point to Programs, point to Programs. point to Accessories, point to Multimedia, and then click [Media Player].
2. On the File menu, click [Option].
3. Browse to any folder that contains a file with the extension wav. Select the file and click the [Open] button. Click the [Play] button to play the file.

**Uninstalling AudioPCI in Windows NT 4.0-**

**To uninstall the software:**

1. Click the [Start] button, point to Settings and click [Control Panel]. Double-click the Multimedia icon.
2. From the Audio Devices tabbed page, Select any existing audio devices and then click Remove. Click [Yes] when prompted to remove the driver.
3. Close the Multimedia Properties windows and restart your computer.

**Reinstalling the Audio Drivers From the Installation Disc**

**You may want to reinstall the audio drivers if you think they are corrupted. To do so:**

1. Insert the installation CD into you CD-ROM drive.
2. Run the UPDPCINT.EXE program from the D:\AUDIO\Language\NT4DRV folder, where D: represents your CD-ROM drive and Language represents the language of the software that you want to install.

A brief message appears. Then the pointer returns to its normal shape, indicating that the update is complete.