



# **SY-7VBA133U Motherboard**

\*\*\*\*\*

Pentium<sup>®</sup> III & Celeron<sup>™</sup>

Processor supported

VIA VT82C694T AGP/PCI/ISA Motherboard

66/100/133 MHz Front Side Bus supported

ATX Form Factor

\*\*\*\*\*

## **User's Manual**

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**About This Guide:**

This Quick Start Guide can help system manufacturers and end users in setting up and installing the Motherboard. Information in this guide has been carefully checked for reliability; however, to the correctness of the contents there is no guarantee given. The information in this document is subject to amend without notice.

For further information, please visit our **Web Site** on the Internet. The address is "<http://www.soyo.com.tw>".

**Edition: November 2002**

**Version 1.2**

**7VBA133U SERIAL**

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

**100%** POST CONSUMER  
RECYCLED PAPER

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## Chapter 1

# MOTHERBOARD DESCRIPTION

### 1-1 INTRODUCTION

The **SY-7VBA133U** AGP/PCI/ISA Motherboard is a high-performance Socket 370 supported ATX form-factor system board. The **SY-7VBA133U** uses VIA Chipset technology and supports Socket 370 class processors. This Motherboard is fully compatible with industry standards and adds many technical enhancements.

### 1-2 UNPACKING THE MOTHERBOARD

When unpacking the Motherboard, check for the following items:

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◆ The SY-7VBA133U VT82C694T AGP/PCI/ISA Motherboard



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◆ This Quick Start Guide



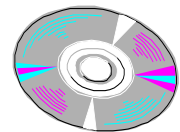
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◆ The Installation CD-ROM



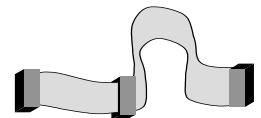
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◆ SOYO Bonus Pack CD-ROM



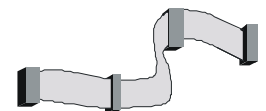
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◆ One IDE Device ATA 100 Flat Cable



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◆ One Floppy Disk Drive Flat Cable



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**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.

## **1-3 KEY FEATURES**

### **➤ CPU SUPPORT**

The SY-7VBA133U supports a wide range of INTEL CPU:

- Supports Intel® processors
  - Celeron™
  - Pentium® III Coppermine/Tualatin

New released Intel Socket 370 CPUs will very likely be supported by the SY-7VBA133U as well.

### **➤ CPU SETTINGS**

The SY-7VBA133U provides the user with a very complete and convenient CPU setting environment. The CPU settings are all adjusted through the special SOYO COMBO page in the BIOS, therefore rendering the use of jumpers obsolete.

#### **■ CPU FSB Frequency**

The SY-7VBA133U supports an incredible wide range of CPU FSB frequency settings:

66~255MHz. (CPU FSB Frequency can be setup by 1MHz increment)

This ensures that the SY-7VBA133U has an overwhelming overclocking potential.

#### **■ CPU Multiplier**

The SY-7VBA133U supports a fixed ratio CPU.

### **➤ EXPANDABILITY**

The SY-7VBA133U provides all the standard expansion slots, and many more additional expansion features:

**◆ Expansion slots**

- 1 x 32-bit bus master AGP slot
- 5 x 32-bit bus master PCI slots
- 2 x 16-bit ISA slot

**◆ Enhanced IO**

- Floppy disk controller
- 2x EIDE controllers with support for up to 4 Ultra DMA 33/66/100 devices
- Standard/EPP/ECP parallel port
- 2x 16550 compatible serial ports
- IrDA compatible infrared port
- 4x USB (Universal Serial Bus) connectors
- PS/2 mouse connector
- PS/2 keyboard connector

**➤ ADVANCED FUNCTIONS**

The SY-7VBA133U supports advanced functions such as:

- Wake-On-LAN

Supports Wake-On-LAN (*Some advanced network cards can wake the system up over the network, the WOL connector is provided by the SY-7VBA133U to support this function*).

- Multiple boot

The SY-7VBA133U supports booting from devices such as CD-ROM.

- Power on by modem or alarm

If the SY-7VBA133U system is in suspend mode, it can be switched back on through the modem or RTC alarm through this function. This opens a lot of possibilities, such as remote access that switches the system on only after the modem receives a call.

**➤ FAIL SAFE**

The SY-7VBA133U comes with added functionality to make managing the system easy and safe

**◆ Hardware Monitor**

The integrated Hardware Monitor IC and Hardware doctor software

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enables the user to monitor system voltages, temperatures and FAN speeds. This makes sure that the user is full control of the system

◆ **Power Failure Resume Function**

This function can be set in the BIOS, and determines whether the system will automatically turn on again after a power failure. This function is indispensable for server systems that need to always be on line.

➤ **SOYO BONUS PACK**

➤ **COMPLIANCE**

The SY-7VBA133U complies with all important industry standards. The following underlines the reliability of the SY-7VBA133U, a motherboard to trust.

- PC99, ACPI compliant

➤ **USER FRIENDLY**

- SOYO COMBO Setup
- Jumperless design
- You can set up the following options through the BIOS setting
  - CPU FSB frequency
  - PCI clock
  - AGP Clock
  - SDRAM Clock

## 1-4 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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## 1-5 ELECTROSTATIC DISCHARGE PRECAUTIONS

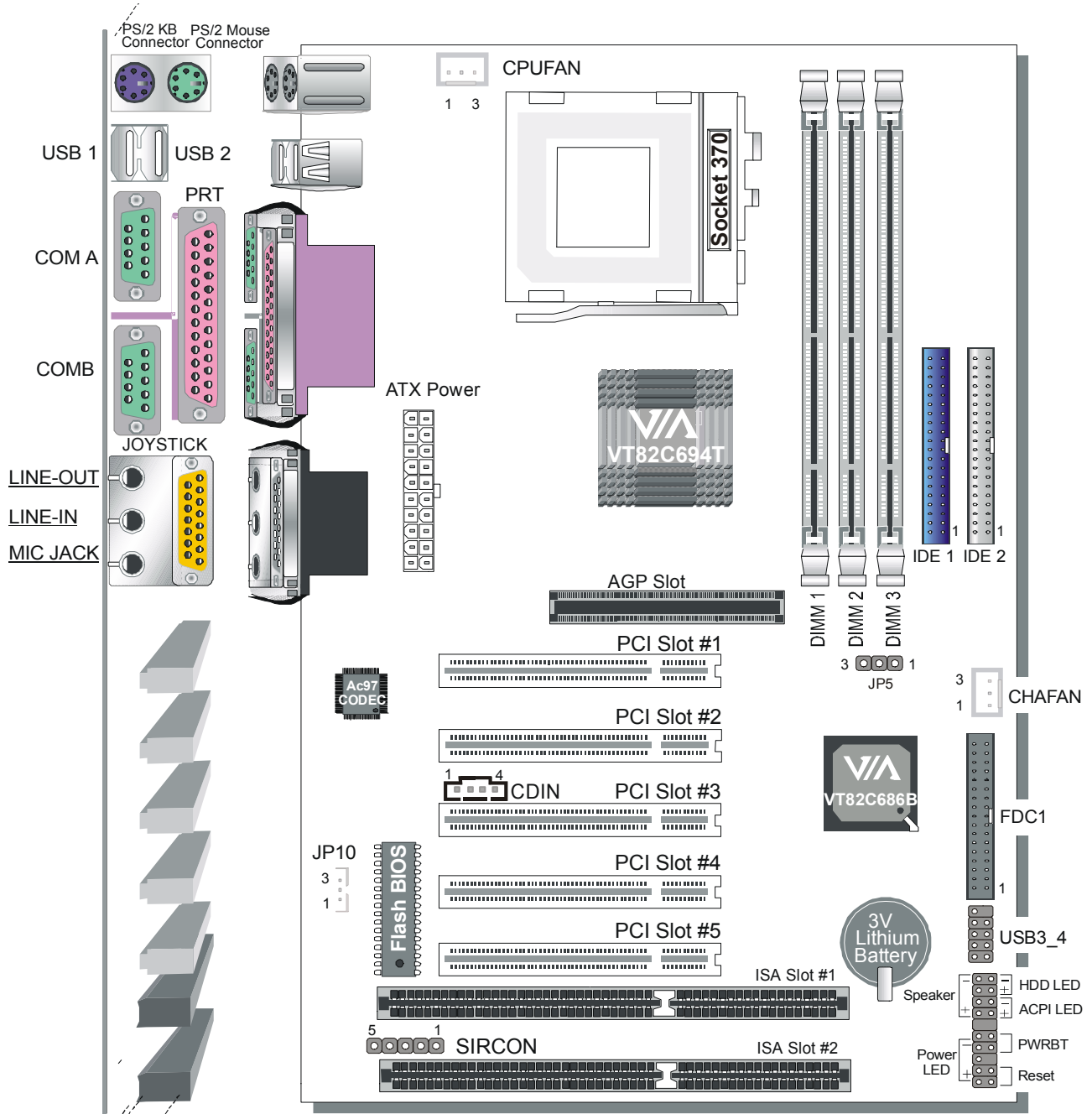
Make sure to ground yourself before handling the Motherboard or other system components. Electrostatic discharge can easily damage the components. Note that you must take special precautions when handling the Motherboard in dry or air-conditioned environment.

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.



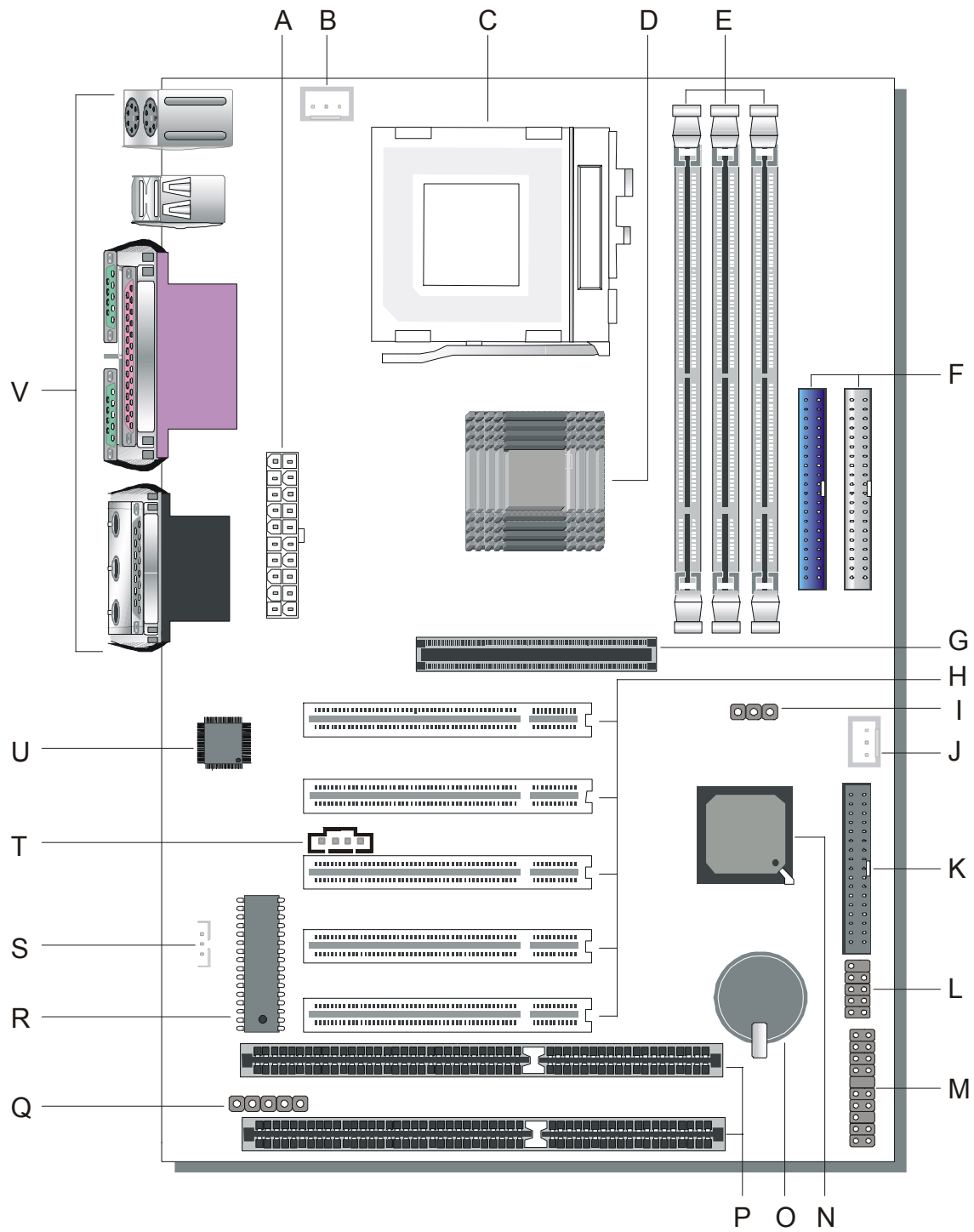
# 1-6 SY-7VBA133U MOTHERBOARD LAYOUT



Back Panel

SY-7VBA133U Platform

### 1-7 SY-7VBA133U MOTHERBOARD COMPONENTS



- A ATX Power Supply**
- B CPU Cooling Fan Connector**
- C Connector Socket 370 Connector**
- D VIA 6946T North Bridge chip**
- E DIMM Banks**
- F Bus Mastering E-IDE/ATAPI Ports**
- G 32-bit AGP Slot**
- H 32-bit PCI Mastering Slots**
- I CMOS Clear Jumper**
- J Chassis Cooling Fan Connector**
- K Floppy Disk Drive (FDD) Port**
- L USB Ports**
- M Front panel connectors**
- N VIA 686B South Bridge Chip**
- O 3V Lithium Battery**
- P 16-bit ISA Slot**
- Q Serial Infrared (IrDA) Device Header**
- R Flash BIOS**
- S Wake-On-LAN (WOL) Header**
- T CD-IN Connector**
- U Onboard Audio Chip**
- V Back panel Connectors**

## Chapter 2

# HARDWARE INSTALLATION

Congratulations on your purchase of SY-7VBA133U Motherboard. You are about to install and connect your new Motherboard.



---

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

---

### 2-1 PREPARATIONS

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

1. Socket 370 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.

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2. DIMM memory module (s)
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: Sound card, Modem and LAN cards (optional)

## 2-2 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.



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**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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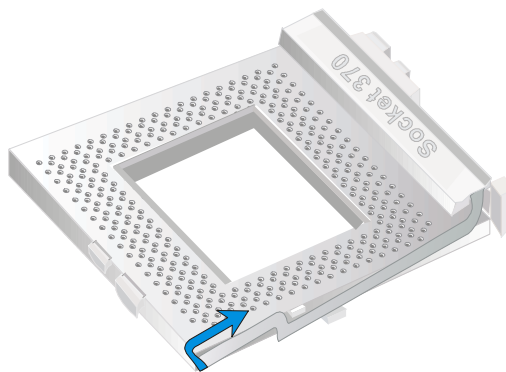
**BEGIN THE INSTALLATION**

### Step 1 Install the CPU

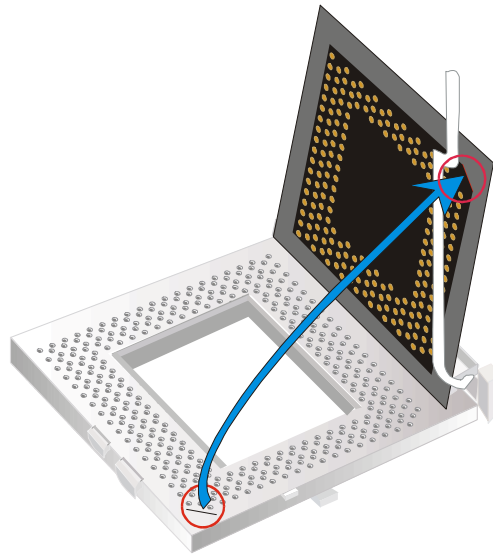
Your SY-7VBA133U motherboard comes with a CPU retention set kit. The retention set is used to hold the processor attached to the Socket 370 CPU connector on the motherboard.

**CPU Mount Procedure:** To mount the Pentium®, Celeron™, Tualatin processor that you have purchased separately, follow these instructions.

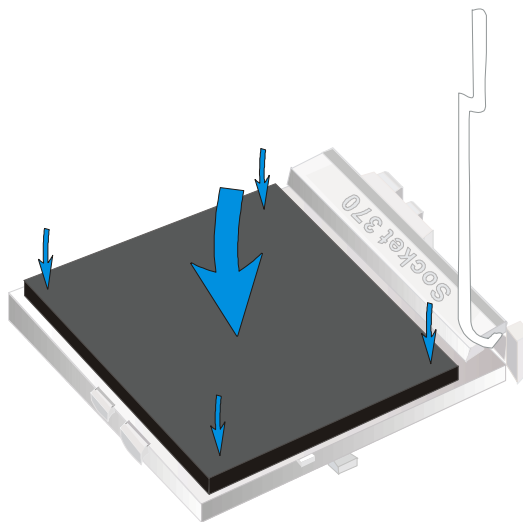
1. Lift the socket handle up to a vertical position.



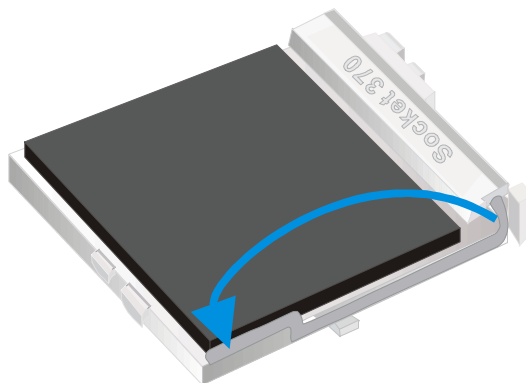
2. Align the blunt edge of the CPU with the matching pinhole distinctive edge on the socket.

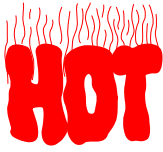


3. Seat the processor in the socket completely and without forcing.



4. Then close the socket handle to secure the CPU in place.





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Remember to connect the CPU Cooling Fan to the appropriate power connector on the Motherboard. *The fan is a key component that will ensure system stability. The fan prevents overheating, therefore prolonging the life of your CPU.*

---

## CPU Fan Installation

Your Socket 370 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.

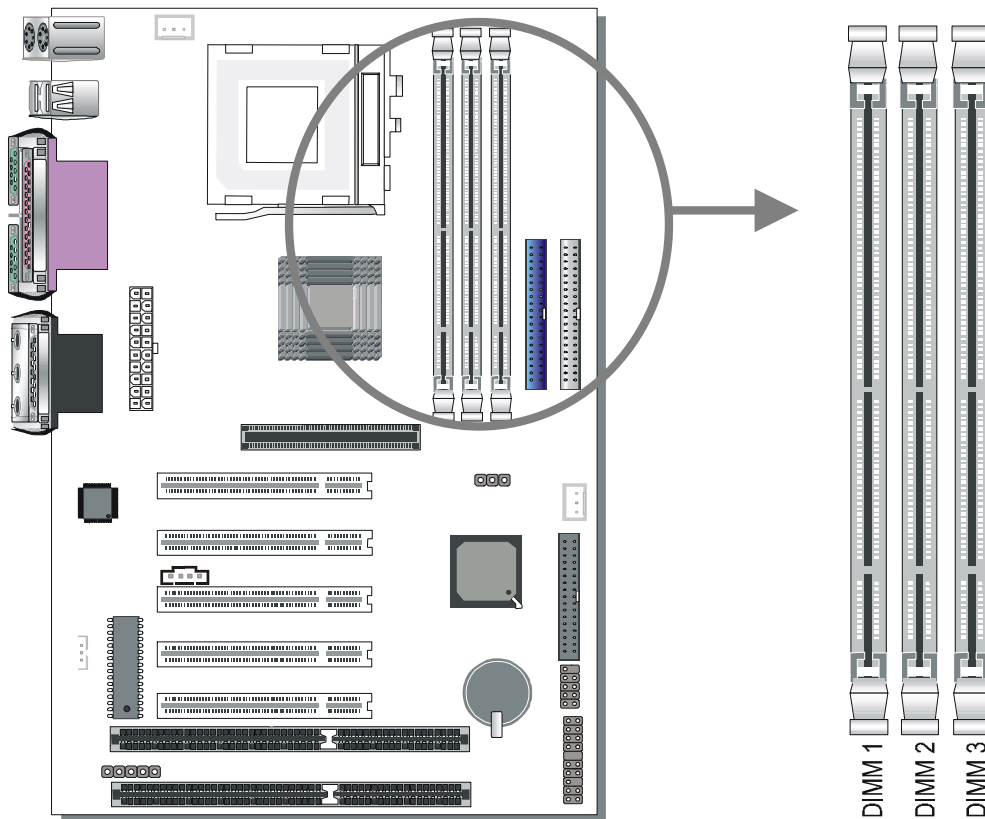


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**Note:** Remember to connect the fan to the appropriate power source.

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## Step 2 Install Memory Module



Your board recommend a limit of 3 DIMMs or 6 banks at 133 MHz for 1.5GB max memory using unbuffered and Non-ECC DIMM modules. On this motherboard, DRAM speed can be set independent from the CPU front side bus speed. Depending on the DRAM clock speed setting in the BIOS setup, appropriate memory modules must be used. For FSB 66MHz speed, use PC66 or PC100 memory; for FSB 100MHz speed, use PC66/PC100/PC133 memory; for FSB 133MHz speed, use PC100 or PC133 memory.

***Memory Configuration Table***

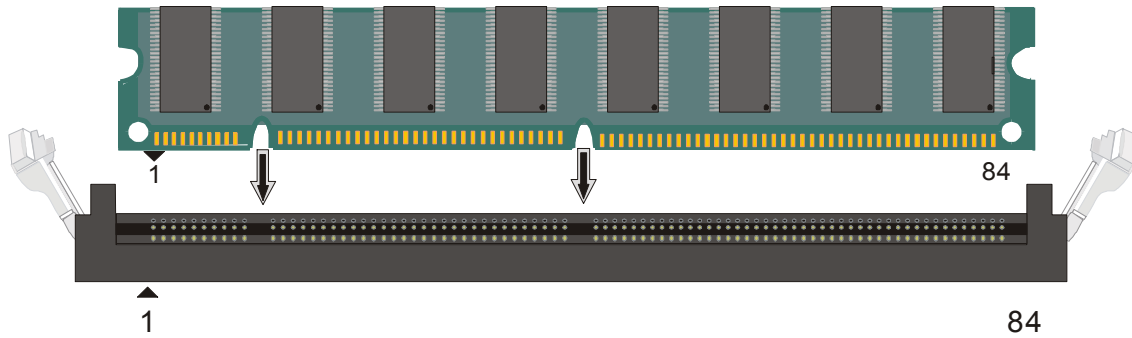
Number of Memory Modules	DIMM 1	DIMM 2	DIMM 3
RAM Type	SDRAM		
Memory Module Size (MB)	128/256/512 MB		

**Step 3 Install Expansion Card**

The motherboard has 1 AGP slot, 5 PCI slots and 2 ISA slots.

1. Read the related expansion card’s instruction document before inserting the expansion card into the computer.
2. Press the expansion card firmly into expansion slot in motherboard.
3. Be sure the metal contacts on the card are indeed seated in the slot.

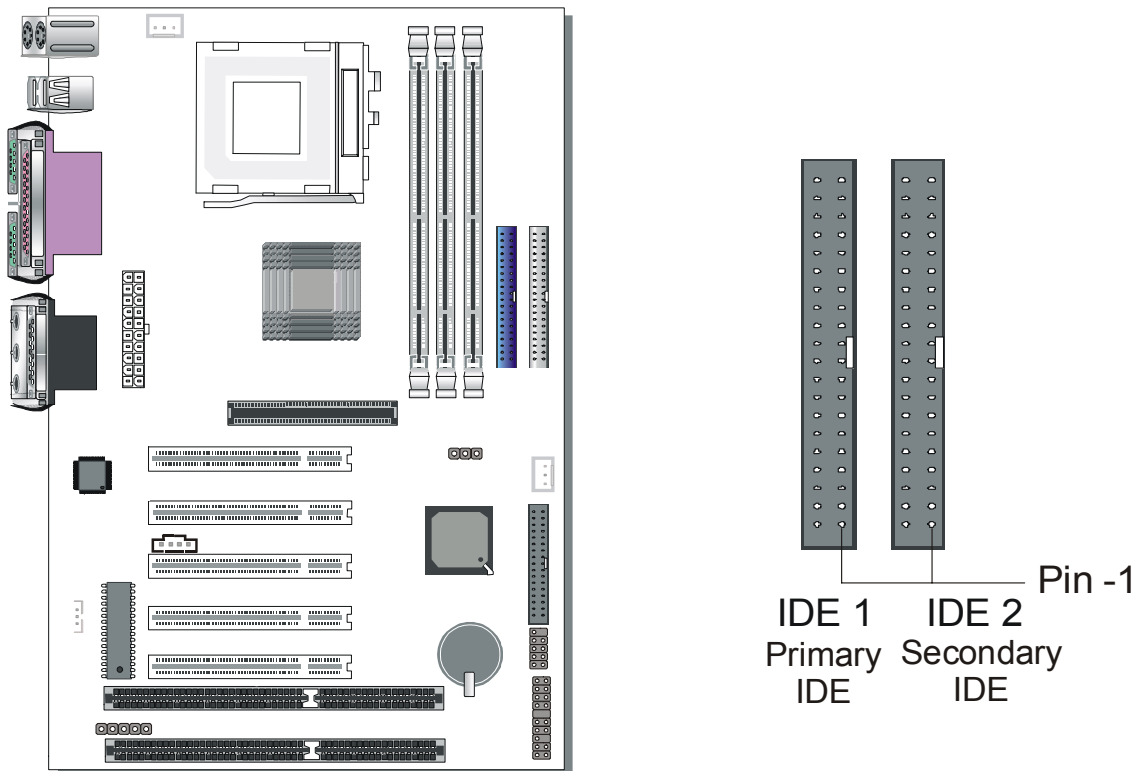




4. Replace the screw to secure the slot bracket of the expansion card.
5. Install related driver from the operating system.

## Step 4 Connect cables, case wires, and power supply

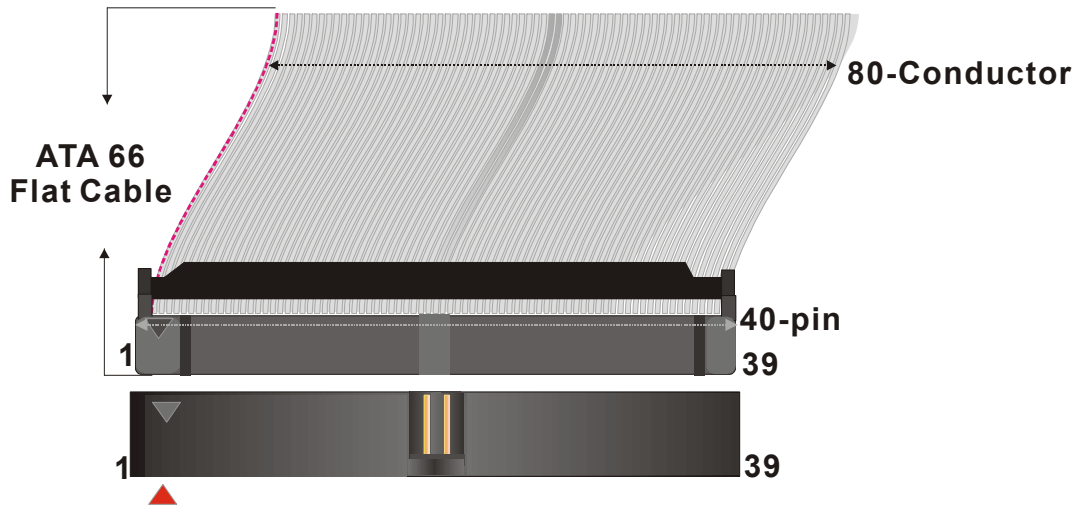
### A. IDE Device Installation (HDD, CD-ROM)



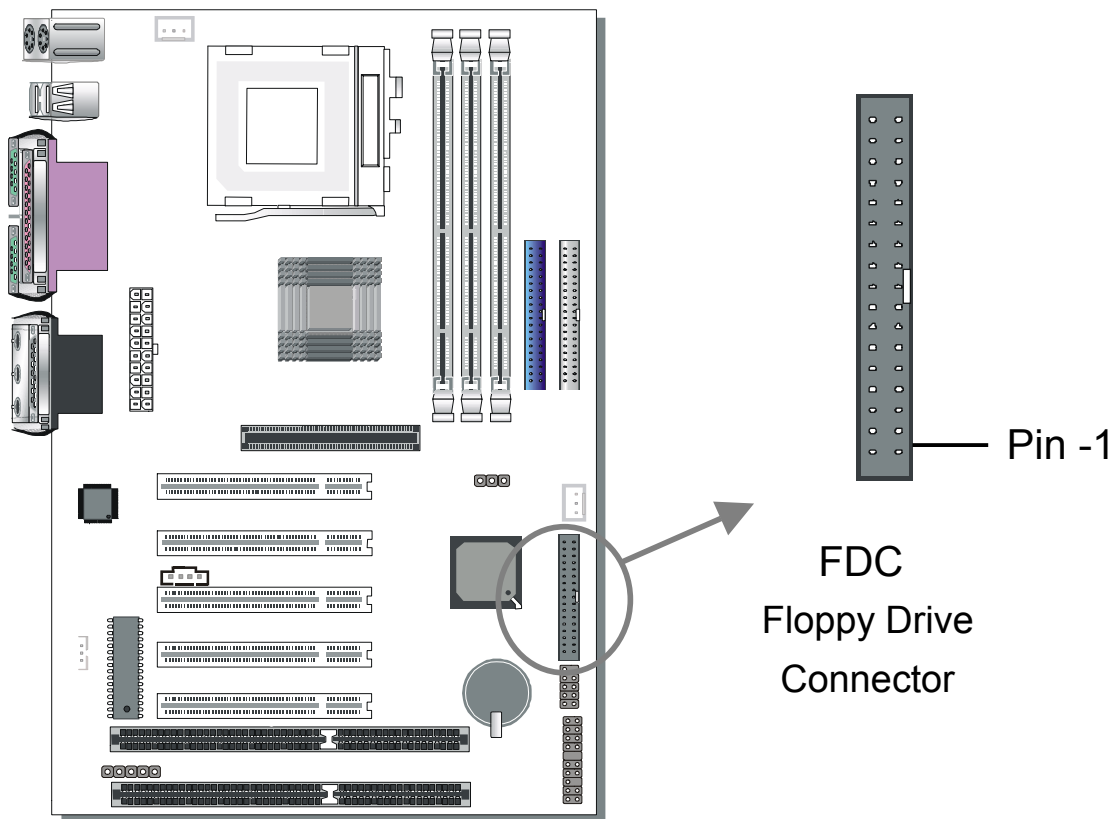
This Motherboard offers two primary and secondary IDE device connectors (IDE1, IDE2). It can support up to four high-speed Ultra DMA 33/66/100HDD or CD-ROM.

Connect one side of the ATA66/100 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. The ATA66/100 cable is backward compatible with ATA33 HDDs.

This Motherboard can support up to four HDDs.



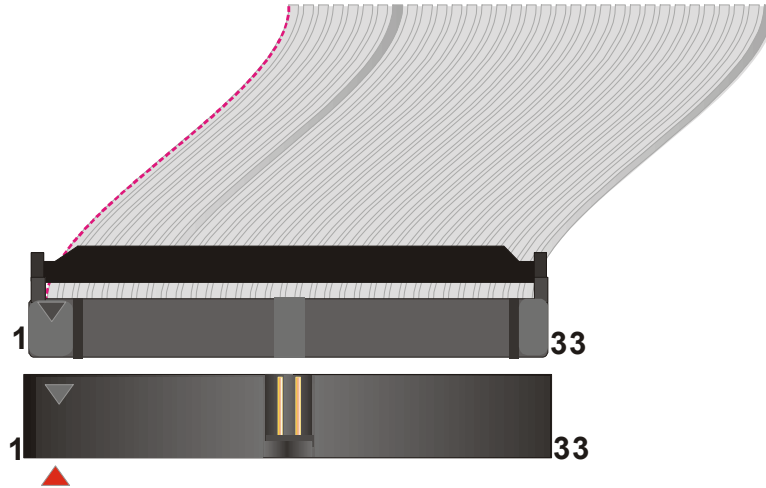
## B. Floppy Drive Installation



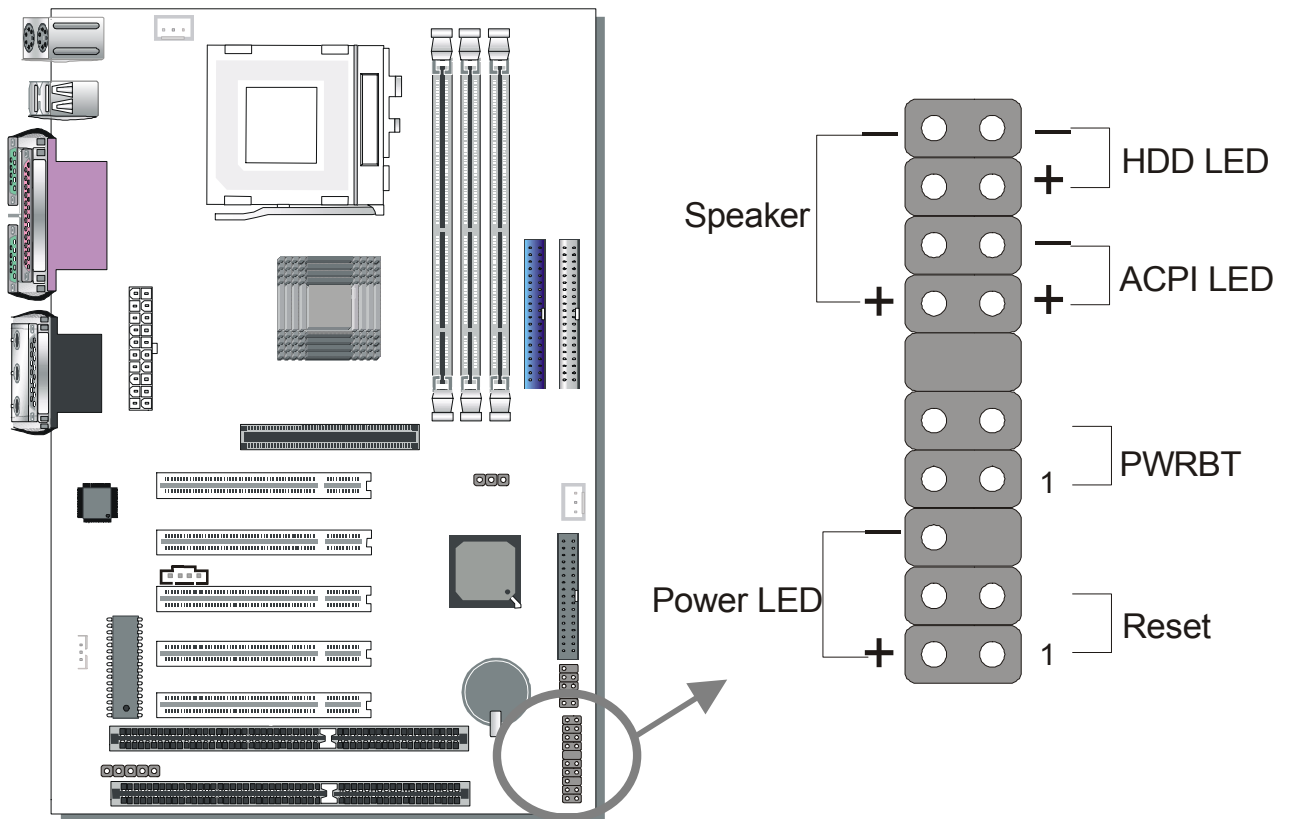
The system supports 5 possible floppy drive types: 720 KB, 1.2 MB, 1.44 MB, 2.88 MB, and LS-120.

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.



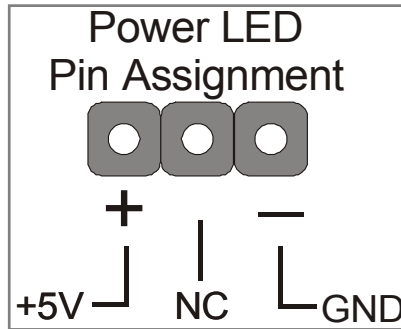
### C. Front Panel Connections



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

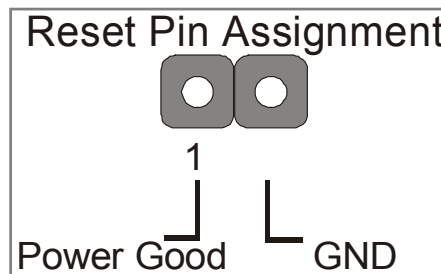
### 1. Power LED

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



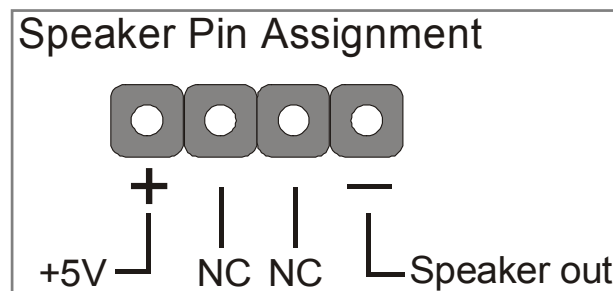
### 2. Reset

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.



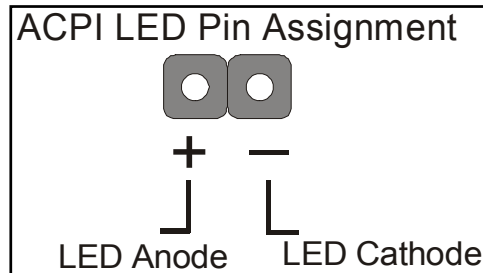
### 3. Speaker

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



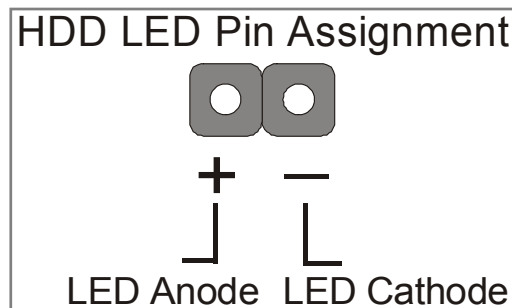
#### 4. ACPI LED

Connecting the 2-pin ACPI LED cable to the corresponding ACPI LED header will cause the LED to light whenever the system is in ACPI mode. The manufacturer has permanently set this Motherboard in ACPI mode due to most hardware and software compliance to ACPI mode.



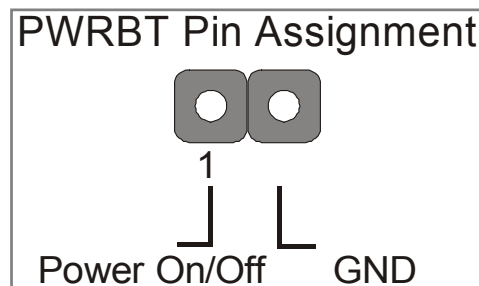
#### 5. IDE LED

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.

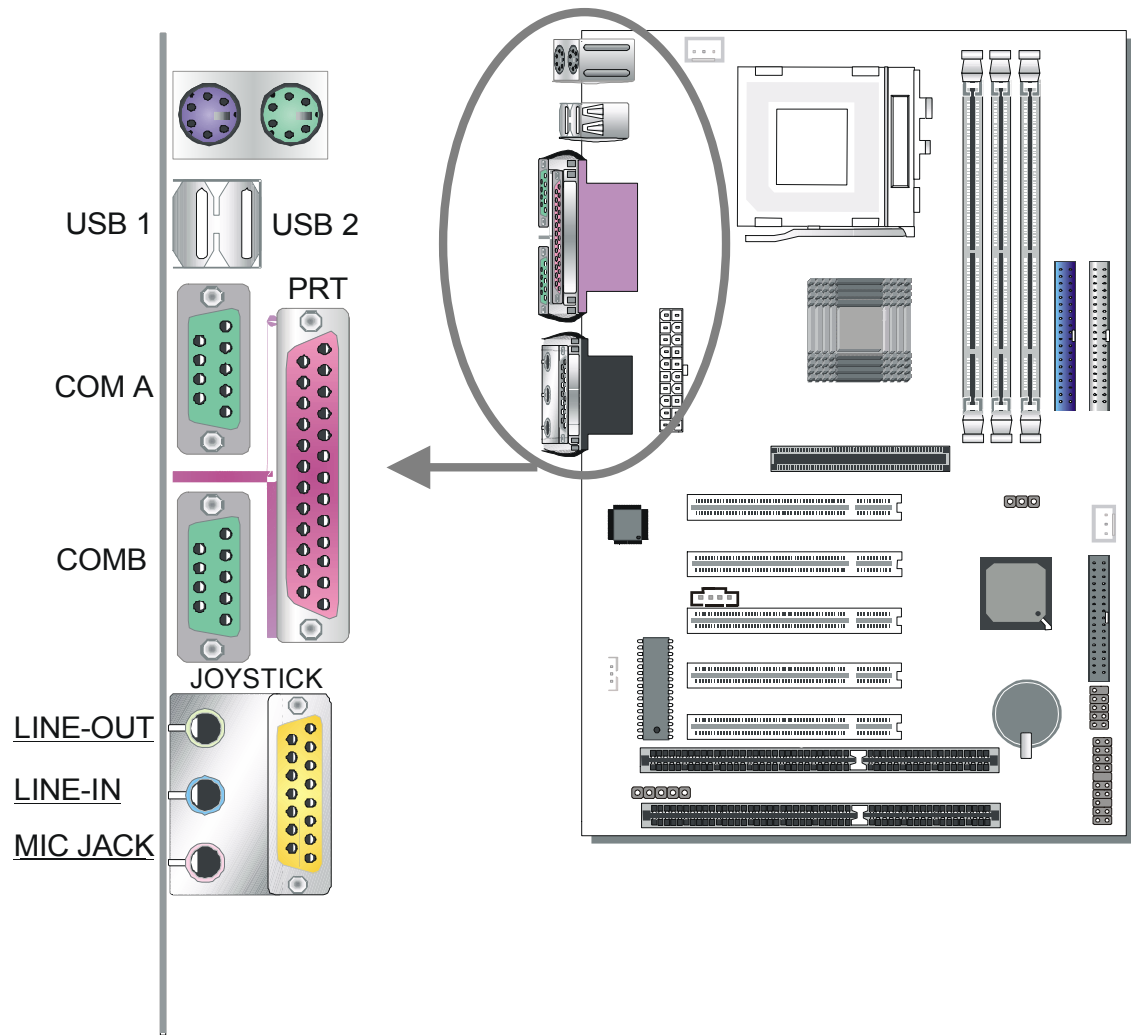


### D. Back Panel Connections

All external devices such as the PS/2 keyboard, PS/2 mouse, printer, modem, USB 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 COMA/COMB

External peripherals that use serial transmission scheme include:

- serial mouse,
- and modem.

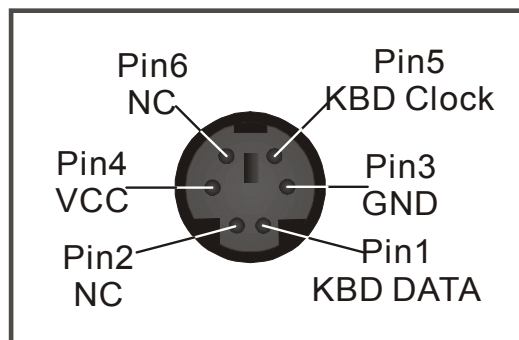
Plug the serial device cables directly into the COMA/COMB 9-pin male connectors located at the rear panel of the Motherboard.

### 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.

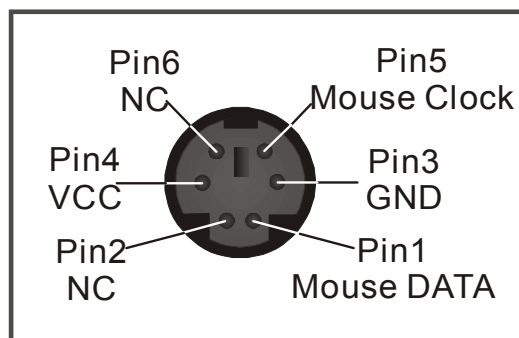
### 3. PS/2 Keyboard

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.

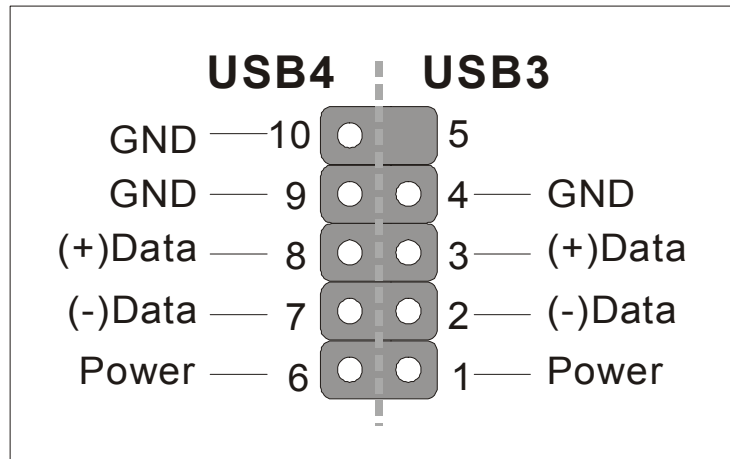


### 5. Universal Serial Bus USB1/USB2/(USB3, USB4)

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

- Standard device drivers come with the Win98 for commonly used USB devices.
- With Win95, use the flow UHCI specifications. To use USB devices under Win95, usually you have to install the device that driver comes with the USB device you have purchased.

USB3 and 4 are available. To make use of these USB ports, purchase a USB cable from your dealer. The lay-out of USB3 and 4 is as follows:

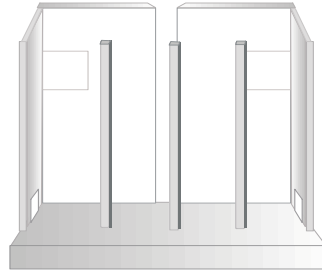




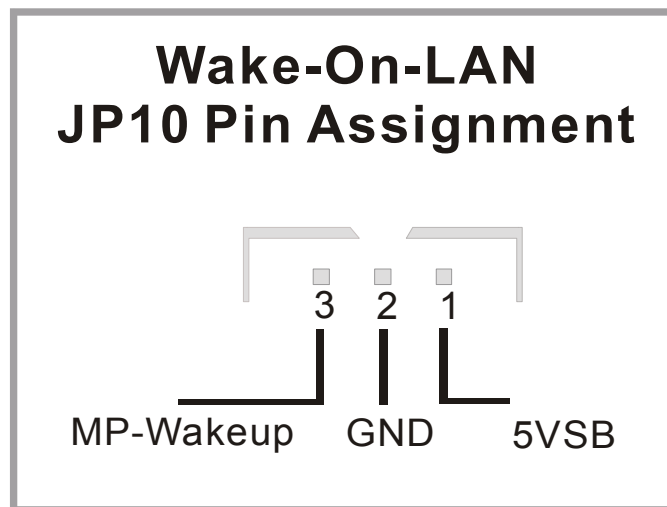
## E. Other Connections

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

Attach the 3-pin connector from the LAN card which supports the Wake-On-LAN (WOL) function to the JP10 header on the Motherboard. This WOL function lets users wake up the connected computer through the LAN card.

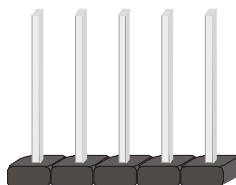


Please install according to the following pin assignment:



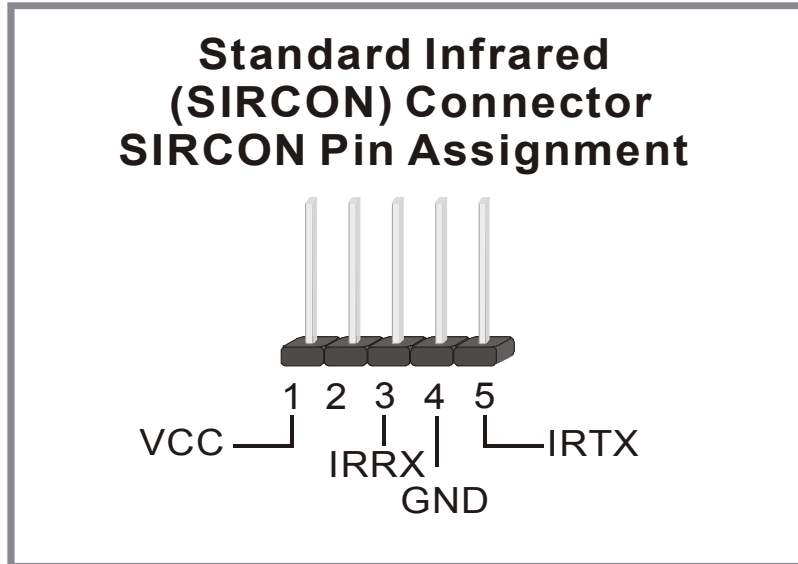
### 2. Standard Infrared (SIRCON)

Plug the 5-pin infrared device cable to the SIRCON header.

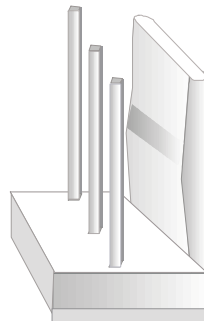


This will enable the infrared transfer function. This Motherboard meets both the ASKIR and HPSIR specifications.

Please install according to the following pin assignment:

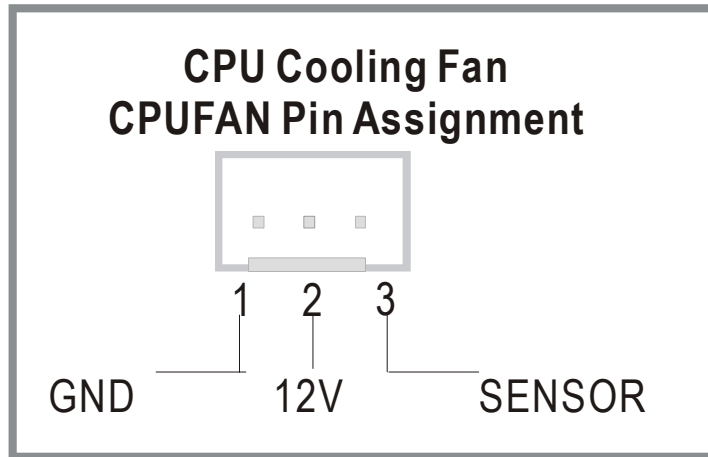


### 3. Cooling Fan Installation



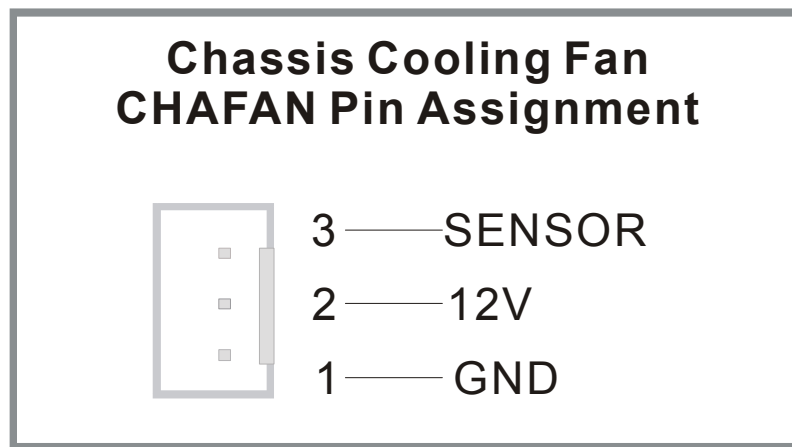
#### (1) CPU Cooling Fan

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**

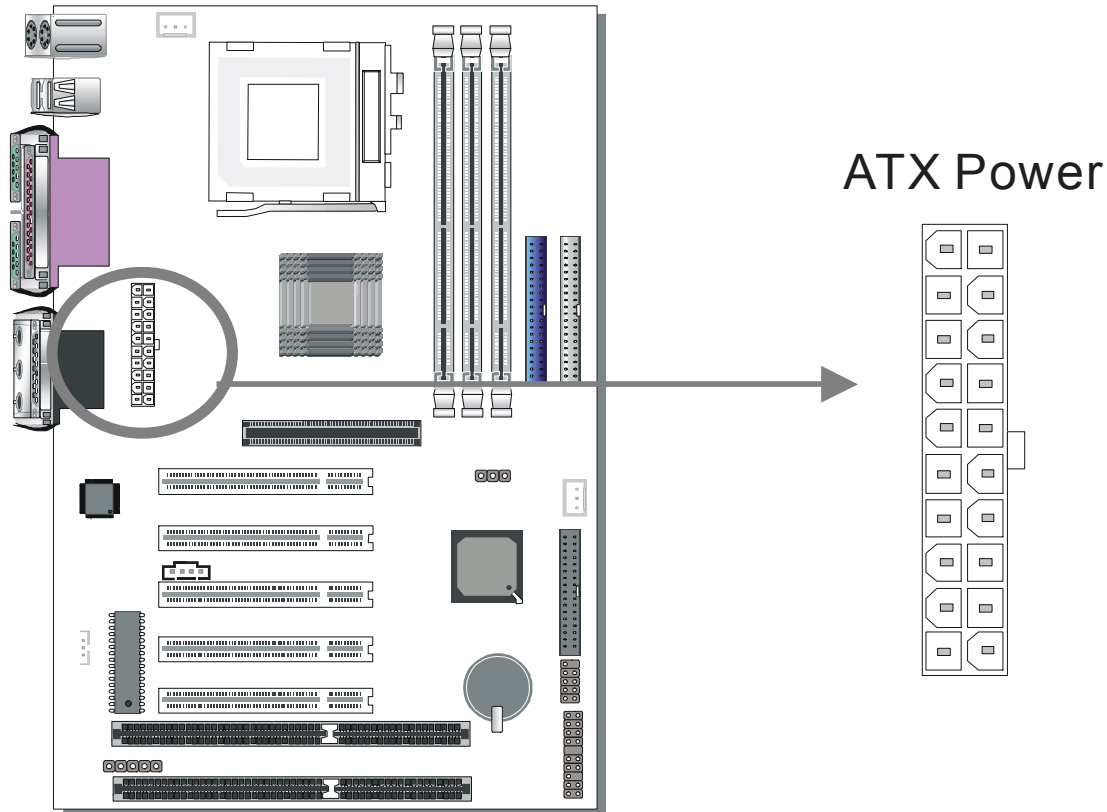
Some chassis also feature a cooling fan. This Motherboard features a CHAFAN connector to provide 12V power to the chassis fan. Connect the cable from the chassis fan to the CHAFAN 3-pin connector. Install according to the following pin assignment:



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

## F. 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.**

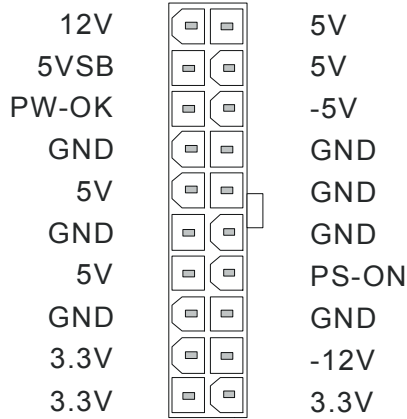
The Motherboard requires a power supply with at least 200 Watts and a "power good" signal. Make sure the ATX power supply can take at least 720 mA \* load on the 5V Standby lead (5VSB) to meet the standard ATX specification.

\* **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:

### ATX Power


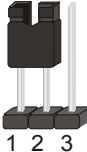


➤ **Pay special care to the directionality.**

### CMOS Clear (JP5)

In some cases the CMOS memory may contain wrong data, follow the steps below to clear the CMOS memory.

1. Clear the CMOS memory by momentarily shorting pin 2-3 on jumper JP5. This jumper can be easily identified by its white colored cap.
2. Then put the jumper back to 1-2 to allow writing of new data into the CMOS memory.

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

## Step 5 Power On

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

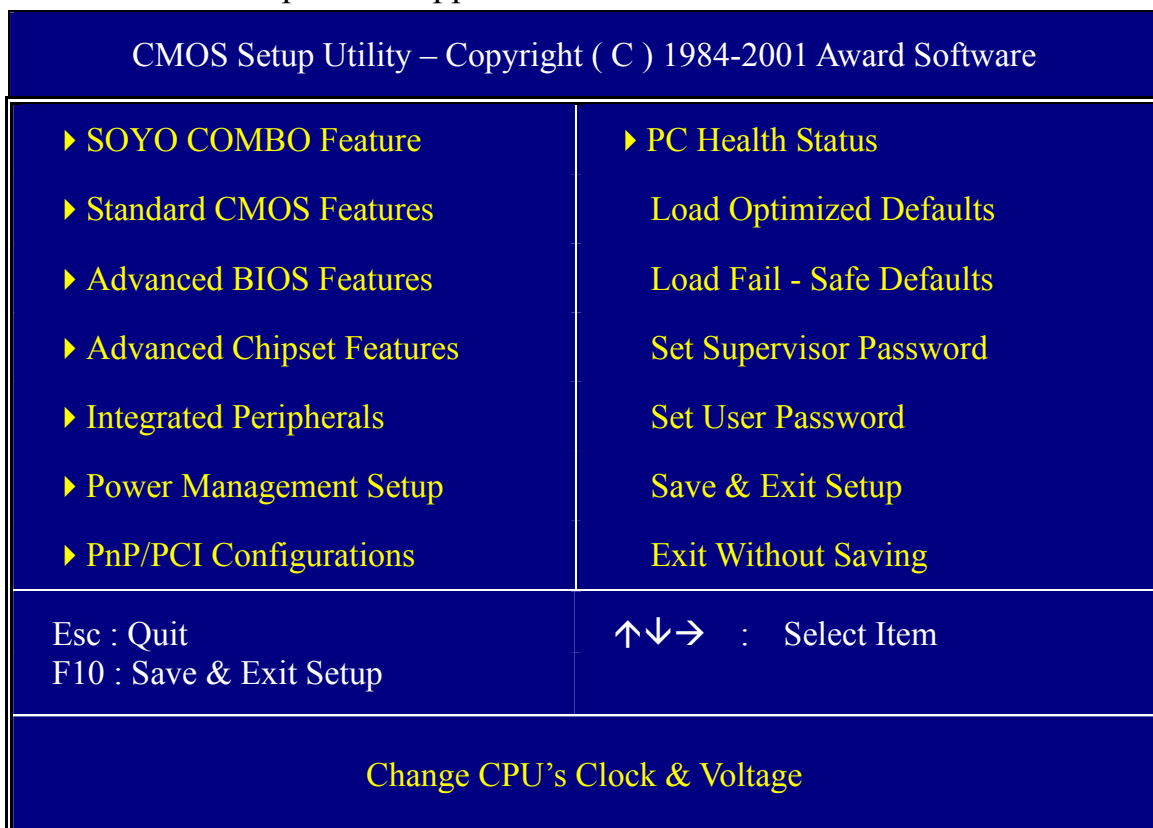
1. Turn the power on
2. To enter the BIOS Setup Utility, press the <DEL> key while the system is performing the diagnostic checks,



**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:



## 2-3 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 FEATURE]**. The **[SOYO COMBO FEATURE]** 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 be shown on the screen. Then, follow these steps to configure the CPU settings.

### **Step 1. Select [STANDARD CMOS SETUP]**

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

### **Step 2. Select [LOAD OPTIMIZED DEFAULTS]**

Select the “LOAD OPTIMIZED DEFAULTS” menu and type “Y” at the prompt to load the BIOS optimal setup.

### **Step 3. Select [SOYO COMBO FEATURE]**

Set the [CPU Frequency Select] field to “Manual”, to be able to change the CPU frequency 1 MHz stepping.

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

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

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

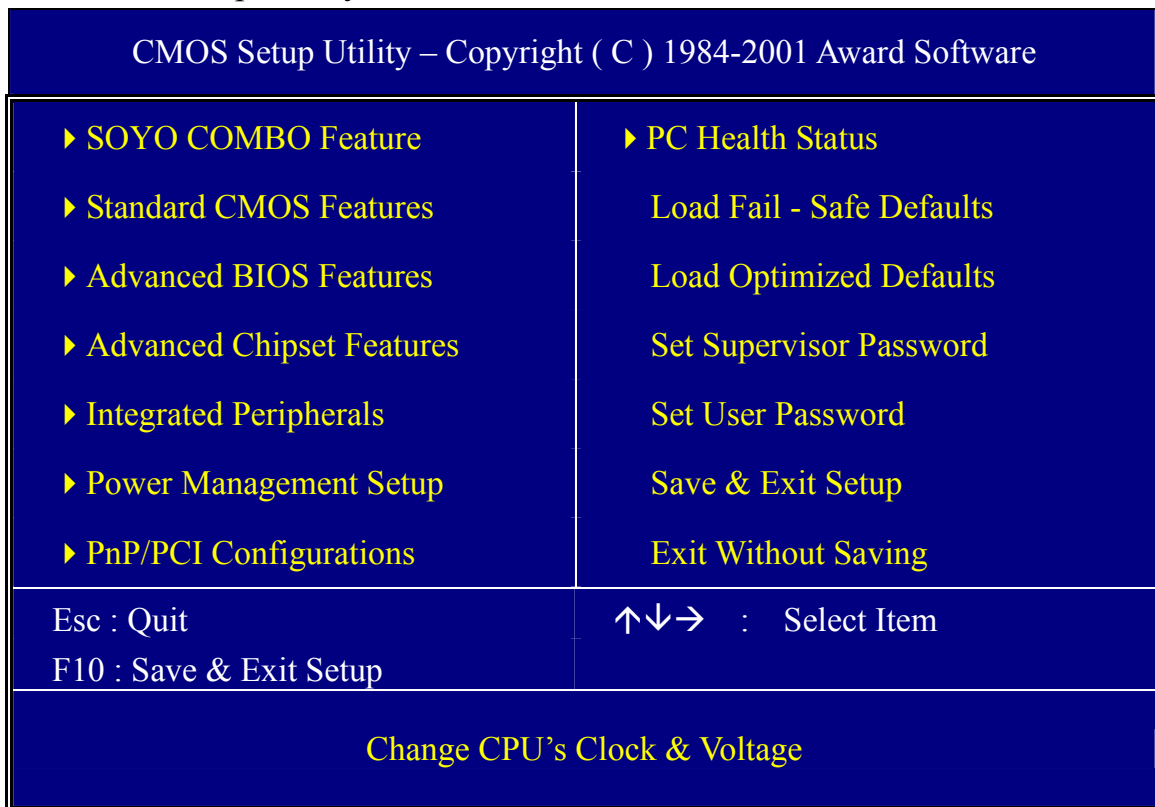
## Chapter 3

# 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.



### 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.

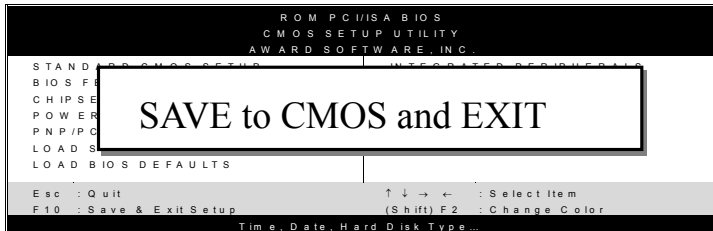


**Hot Keys:** Function keys give you access to a group of commands throughout the BIOS utility.

<b>Function</b>	<b>Command</b>	<b>Description</b>
<b>F1</b>	General Help	Gives the list of options available for each item.
<b>F5</b>	Previous Values	Restore the old values. These are the values that the user started the current session with.
<b>F6</b>	Load Fail-Safe Defaults	Loads all items with the most conservative values.
<b>F7</b>	Load Optimized Defaults	Loads all options with the optimize values.
<b>F10</b>	Save	Saves your changes and reboots the system.
<b>[Esc]</b>	Exit	Returns at anytime and from any location to the Main Menu.
<b>[Enter]</b>	Select	Will display a overlapping window with all options for the current item.
<b>[+/-/PU/PD]</b>	Value	Using the +, -, Page Up and Page Down keys the user can toggle the value of the current item.

## SAVE AND EXIT SETUP

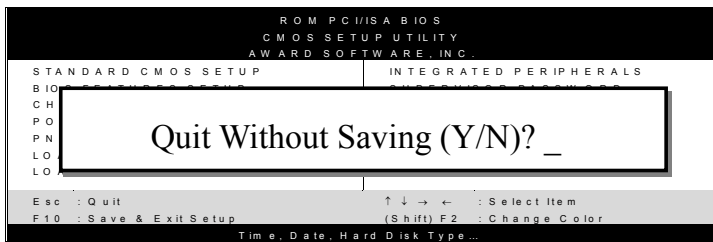
Select the [SAVE & EXIT SETUP] option from the Main Menu to save data to CMOS and exit the setup utility. This option saves all your changes and causes the system to reboot.



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.

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software SOYO COMBO Feature			
CPU Frequency Select	Auto		Item Help
Frequency 1MHz Stepping	100		
Auto Detect DIMM/PCI Clk	Enabled		Menu Level ▶ Set “Manual” to be able to change the CPU Frequency 1 MHz stepping.
Spread Spectrum	Disabled		
System Performance	Normal		
Quick Power On Self Test	Enabled		
First Boot Device	Floppy		
Second Boot Device	HDD-0		
Third Boot Device	LS120		
Boot Other Device	Enabled		
OnChip Sound	Auto		

↑↓→:Move	Enter:Select	+/-/PU/PD:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults	F7: Optimized 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
CPU Frequency Select	Auto	Set the [CPU Frequency Select] field to "Manual", to be able to change the CPU frequency 1 MHz stepping.	Default
	Manual		
Frequency 1MHz Stepping	66~255 MHz	Press "Page Up" / "Page Down" key to Over Clock the CPU Front Side Bus in 1MHz increment or Press "Enter" key, then type the desired CPU Front Side Bus.	
Auto Detect DIMM/PCI Clk	Disabled	When enabled, this item will auto detect if the DIMM and PCI socket have devices and will send clock signal to DIMM and PCI devices. When disabled, it will send the clock signal to all DIMM and PCI socket.	Default
	Enabled		
Spread Spectrum	Disabled	This item allows you to enable/disable the spread spectrum modulate.	Default
	Enabled		
System Performance	Normal	Adjust your computer performance.	Default
	Maximum		
Quick Power On Self Test	Disabled	Provides a fast POTS at boot-up.	Default
	Enabled		

### 3-1.2 System Boot Control Settings

System Boot Control Settings	Setting	Description	Note
<b>First /Second/Third Boot Device</b>	Floppy	Select Your Boot Device Priority	
	LS/ZIP		
	HDD-0		
	SCSI		
	CDROM		
	HDD-1		
	HDD-2		
	HDD-3		
	LAN		
	Disabled		
<b>Boot Other Device</b>	Disabled	Select Your Boot Device Priority	Default
	Enabled		
<b>OnChip Sound</b>	Disabled	This item allows you to control the onboard AC 97 audio/ MC 97 Modem.	Default
	Auto		

### 3-2 STANDARD CMOS SETUP

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

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software  
 Standard CMOS Features

Date (mm:dd:yy) Time (hh:mm:ss)	Mon, Jan 1 2001 0 : 1 : 45	Item Help
▶ IDE Primary Master ▶ IDE Primary Slave ▶ IDE Secondary Master ▶ IDE Secondary Slave	Press Enter None Press Enter None Press Enter None Press Enter None	Menu Level ▶ Change the day, month, year and century
Drive A Drive B Floppy 3 Mode Support	1.44M, 3.5 in. None Disabled	
Video Halt On	EGA/VGA All Errors	
Base Memory Extended Memory Total Memory	640K 30720K 31744K	

↑↓→:Move	Enter:Select	+/-/PU/PD:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults	F7: Optimized Defaults			

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>IDE HDD Auto-Detection</b>	Press Enter	To auto-detect the HDD's size, head... on this channel	
<b>IDE Primary Slave (User Type)</b>	Auto	BIOS detects hard disk type automatically.	Default
	User	User defines the type of hard disk.	
	None		
<b>Access 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 Drive B Both	Supports 3-mode floppy diskette: 740KB/1.2MB/ 1.44MB on selected disk drive.	Special disk drive commonly used in Japan

### 3-2.4 Others Optional

	Setting	Description	Note
<b>Video</b>	EGA/VGA	Select the video mode.	Default
	CGA 40		
	CGA 80		
	MONO (Monochrome)		
<b>Halt On</b>	ALL Errors	When the BIOS detects system errors, this function will stop the system. Select which type of error will cause the system halt.	Default
	No Errors		
	All, But Keyboard		
	All, But Diskette		
	All, But Disk/Key		



### 3-3 ADVANCED BIOS FEATURES

Select the [Advanced BIOS Features] option from the Main Menu and press [Enter] key.

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software  
Advanced BIOS Features

Virus Warning	Disabled	↑ ↓	Item Help
CPU Internal Cache	Enabled		Menu Level ▶
External Cache	Enabled		Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message on screen and alarm beep
CPU L2 Cache ECC Checking	Enabled		
Swap Floppy Drive	Disabled		
Boot Up Floppy Seek	Enabled		
Boot Up NumLock Status	On		
Gate A20 Option	Fast		
Typematic Rate Setting	Disabled		
x Typematic Rate (Chars/Sec)	6		
x Typematic Delay (Msec)	250		
Security Option	Setup		
OS Select For DRAM > 64MB	Non-OS2		
HDD S.M.A.R.T Capability	Disabled		
Report No FDD For WIN 95	Yes		
Video BIOS Shadow	Enabled		
C8000-CBFFF Shadow	Disabled		
CC000-CFFFF Shadow	Disabled		
D0000-D3FFF Shadow	Disabled		
D4000-D7FFF Shadow	Disabled		
D8000-DBFFF Shadow	Disabled		
DC000-DFFFF Shadow	Disabled		
EPA LOGO SELECT	LOGO-0		
Small Logo (EPA) Show	Enabled		

↑↓→:Move    Enter:Select    +/-/PU/PD:Value    F10:Save    ESC:Exit    F1:General Help  
 F5:Previous Values    F6:Fail-Safe Defaults    F7: Optimized 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

	Setting	Description	Note
<b>Virus Warning</b>	Disabled	If set to enabled, the Paragon Anti-Virus. Function will scan your boot drive for boot viruses. If a boot virus is detected, the BIOS will display a warning message.	Default
	Enabled		

### 3-3.2 Cache Memory Options

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

### L2 Cache Memory

	Setting	Description	Note
<b>CPU L2 Cache ECC Checking</b>	Disabled	This option activates the CPU L2 cache ECC checking function.	Default
	Enabled		

### 3-3.3 Floppy Driver Settings

	Setting	Description	Note
<b>Swap Floppy Drive</b>	Disabled	Changes the sequence of A and B drives.	Default
	Enabled		

### 3-3.4 Boot Up Floppy Seek

	Setting	Description	Note
<b>Boot Up Floppy Seek</b>	Disabled	Seeks disk drives during boot up.	Default
	Enabled	Disabling speeds boot up.	

### 3-3.5 Boot Up NumLock Status

	Setting	Description	Note
<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.	

### 3-3.6 Gate A20 Options

	Setting	Description	Note
<b>Gate A20 Options</b>	Normal	Lets chipset control GateA20.	
	Fast	A pin in the keyboard controller controls GateA20.	Default

### 3-3.7 Typematic Settings

Typematic Settings	Setting	Description	Note
<b>Typematic Rate Setting</b>	Disabled	Keystrokes repeat at a rate determined by the keyboard.	Default
	Enabled	When enables , the typematic rate and typematic delay can be selected.	
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)		

### 3-3.8 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	
<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

### 3-3.9 Other Control Options

Other Control Options	Setting	Description	Note
<b>OS Select for DRAM&gt;64MB</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	Enable this field when your HDD supports the S.M.A.R.T. function. Consult your HDD provider for details.	Default
	Enabled		
<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].	
	No	Windows will reserve INT 6 for your FDD, whether it is disabled or not.	Default
<b>Video BIOS Shadow</b>	Disabled	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
	Enabled		
<b>C8000-C8FFF Shadow</b>	Disabled	If set to "Enabled", the flash ROM address "C8000-C8FFF" will be shadowed from ROM to RAM.	Default
	Enabled		
<b>CC000-CFFFF Shadow</b>	Disabled	If set to "Enabled", the flash ROM address "CC000-CFFFF" will be shadowed from ROM to RAM.	Default
	Enabled		

Other Control Options	Setting	Description	Note
<b>D0000-D3FFF Shadow</b>	Disabled	If set to “Enabled”, the flash ROM address “D0000-D3FFF” will be shadowed from ROM to RAM.	Default
	Enabled		
<b>D4000-D7FFF Shadow</b>	Disabled	If set to “Enabled”, the flash ROM address “D4000-D7FFF” will be shadowed from ROM to RAM.	Default
	Enabled		
<b>D8000-DBFFF Shadow</b>	Disabled	If set to “Enabled”, the flash ROM address “D8000-DBFFF” will be shadowed from ROM to RAM.	Default
	Enabled		
<b>DC000-DFFFF Shadow</b>	Disabled	If set to “Enabled”, the flash ROM address “DC000-DFFFF” will be shadowed from ROM to RAM.	Default
	Enabled		
<b>EPA LOGO SELECT</b>	LOGO-0	Allows user to display SOYO logo or own logo. Logo-0 Shows SOYO logo. Logo-1 Shows user logo (Default Blank).	Default
	LOGO-1		
<b>Small Logo(EPA) Show</b>	Disabled	Set Enabled to Show Logo(EPA).	
	Enabled		Default



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 Advanced Chipset Features Menu and how to configure each parameter.

### 3-4.1 CHIPSET FEATURES SETUP

CHIPSET FEATURES	Setting	Description	Note
<b>DRAM Timing By SPD</b>	Disable	If enable the DRAM will auto detect the DRAM timing.	Default
	Enabled		
<b>DRAM Clock</b>	Host Clock	This item allows you to control the DRAM speed.	Default
	HCLK-33M		
	HCLK+33M		
<b>SDRAM Cycle Length</b>	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		
<b>Bank Interleave</b>	4 Bank	Increase DRAM performance.	Default
	Disabled		
	2 Bank		
<b>Memory Hole</b>	Disabled	Some interface cards will map their ROM address to this area. If this occurs, select [Enabled] in this field.	Default
	Enabled		
<b>P2C/C2P Concurrency</b>	Disabled	This item allows you to enable/disable the PCI to CPU, CPU to PCI concurrency	Default
	Enabled		

**CHIPSET FEATURES SETUP (Continued)**

CHIPSET FEATURES	Setting	Description	Note
<b>Fast R-W Turn Around</b>	Disabled	This item controls the DRAM timing. It allows you to enable/ disable the fast read/write turn around.	Default
	Enabled		
<b>CPU IOQ Size</b>	4 Level	This item is related to cache performance. A queue size of 4 gives highest performance.	Default
	1 Level		
<b>System BIOS Cacheable</b>	Disabled	The ROM area F0000H-FFFFFFH is cacheable.	Default
	Enabled		
<b>Video BIOS Cacheable</b>	Disabled		Default
	Enabled		
<b>Video RAM Cacheable</b>	Disabled	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
	Enabled		
<b>AGP Aperture Size</b>	128M	Select the size of Accelerated Graphics Port (AGP) aperture. The aperture is a portion of the PCI memory address range dedicated for graphics memory address space. Host cycles that hit the aperture range are forwarded to the AGP without any translation.	Default
	4M, 8M, 16M, 32M, 64M, 256M		
<b>AGP-4X Mode</b>	Disabled	This item allows you to enable / disable the AGP-4X Mode.	Default
	Enabled		
<b>AGP Driving Control</b>	Auto	This item allows you to adjust the AGP driving force. Choose <i>Manual</i> to key in a AGP Driving Value in the next selection. This field is recommended to set in Auto for avoiding any error in your system.	Default
	Manual		



**CHIPSET FEATURES SETUP (Continued)**

CHIPSET FEATURES	Setting	Description	Note
<b>AGP Driving Value</b>	Min=0000 ~ Max=00FF	This item allows you to adjust the AGP driving force.	
<b>AGP Fast Write</b>	Disabled	The VIA chipset will use fast write to AGP if this item is enabled. Not all AGP cards support fast write.	Default
	Enabled		
<b>OnChip USB</b>	Disabled	This should be enabled if your system has a USB installed on the system board and you want to use it. Even when so equipped, if you add a higher performance controller, you will need to disable this feature.	Default
	Enabled		
<b>USB Keyboard Support</b>	Disabled	Select <i>Enabled</i> if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard.	Default
	Enabled		
<b>CPU to PCI Write Buffer</b>	Disabled	When this field is <i>Enabled</i> , writes from the CPU to the PCI bus are buffered, to compensate for the speed differences between the CPU and the PCI bus. When <i>Disabled</i> , the writes are not buffered and the CPU must wait until the write is complete before starting another write cycle.	Default
	Enabled		
<b>PCI Dynamic Bursting</b>	Disabled	When <i>Enabled</i> , every write transaction goes to the write buffer. Burstable transactions then burst on the PCI bus and nonburstable transactions don't.	Default
	Enabled		

## CHIPSET FEATURES SETUP (Continued)

CHIPSET FEATURES	Setting	Description	Note
<b>PCI Master 0 WS Write</b>	Disabled		
	Enabled	When <i>Enabled</i> , writes to the PCI bus are executed with zero wait states.	Default
<b>PCI Delay Transaction</b>	Disabled		
	Enabled	The chipset has an embedded 32-bit posted write buffer to support delay transactions cycles. Select <i>Enabled</i> to support compliance with PCI specification version 2.1.	Default
<b>PCI#2 Access #1 Retry</b>	Disabled		
	Enabled	When disabled, PCI#2 will not be disconnected until access finishes (default). When enabled, PCI#2 will be disconnected if max retries are attempted without success.	Default
<b>AGP Master 1 WS Write</b>	Disabled		Default
	Enabled	When <i>Enabled</i> , writes to the AGP(Accelerated Graphics Port) are executed with one wait states.	
<b>AGP Master 1 WS Read</b>	Disabled		Default
	Enabled	When <i>Enabled</i> , read to the AGP (Accelerated Graphics Port) are executed with one wait states.	
<b>Memory Parity/ECC Check</b>	Disabled		Default
	Enabled	This item enabled to detect the memory parity and Error Checking & Correcting.	
































### 3-5 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.

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software  
Integrated Peripherals

OnChip IDE Channel0	Enabled		Item Help																													
OnChip IDE Channel1	Enabled																															
IDE Prefetch Mode	Enabled																															
Primary Master PIO	Auto					Menu Level ▶																										
Primary Slave PIO	Auto																															
Secondary Master PIO	Auto																															
Secondary Slave PIO	Auto																															
Primary Master UDMA	Auto																															
Primary Slave UDMA	Auto																															
Secondary Master UDMA	Auto																															
Secondary Slave UDMA	Auto																															
Init Display First	AGP																															
IDE HDD Block Mode	Enabled																															
Onboard FDD Controller	Enabled																															
Onboard Serial Port 1	3F8/IRQ4																															
Onboard Serial Port 2	2F8/IRQ3																															
UART 2 Mode	Standard																															
x IR Function Duplex	Half																															
x TX,RX inverting enable	No, Yes																															
Onboard Parallel Port	378/IRQ7																															
Onboard Parallel Mode	ECP/EPP																															
x ECP Mode Use DMA	3																															
x Parallel Port EPP Type	Epp1.9																															
Onboard Legacy Audio	Enabled																															
Sound Blaster	Disabled																															
SB I/O Base Address	220H																															
SB IRQ Select	IRQ 5																															
SB DMA Select	DMA 1																															
MPU-401	Disabled																															
MPU-401 I/O Address	330-333H																															
Game Port (200-207H)	Enabled																															

↑↓→:Move	Enter:Select	+/-/PU/PD:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults	F7: Optimized Defaults			

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.

### 3-5.1 IDE Device Controls

IDE Controls	Setting	Description	Note
<b>On-Chip PCI IDE</b> ➤ <b>Primary</b> ➤ <b>Secondary</b>	Disabled	Turn off the on-board IDE	
	Enabled	Use the on-board IDE	Default
<b>IDE</b> ➤ <b>Primary Master PIO</b> ➤ <b>Primary Slave PIO</b> ➤ <b>Secondary Master PIO</b> ➤ <b>Secondary Slave PIO</b>	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
<b>IDE</b> ➤ <b>Primary Master UDMA</b> ➤ <b>Primary Slave UDMA</b> ➤ <b>Secondary Master UDMA</b> ➤ <b>Secondary Slave UDMA</b>	Disabled		
	Auto	Select Auto to enable Ultra DMA Mode support.	Default

### 3-5.2 Keyboard Controls

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

### 3-5.3 IDE HDD Block Mode

	Setting	Description	Note
<b>IDE HDD Block Mode</b>	Disabled		
	Enabled	Invokes multi-sector transfer instead of one sector per transfer. Not all HDDs support this function.	Default

### 3-5.4 FDC Controls

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

### 3-5.5 Onboard Serial Ports

Onboard Serial Ports	Setting	Description	Note
Onboard Serial Port 1 / Serial Port 2	Disabled		
	3F8/IRQ4	Choose serial port 1 & 2's I/O address.	Default (port 1)
	2F8/IRQ3	Do not set port 1 & 2 to the same address except for Disabled or Auto.	Default (port 2)
	3E8/IRQ4		
	2E8/IRQ3		
	Auto		
UART 2 Mode	Standard	The second serial port offers these InfraRed interface modes.	Default
	HPSIR		
	ASKIR		
If [UART Mode Select] is set to [IrDA]/[ASKIR]			
IR Function Duplex	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
	Full		
TX,RX inverting enable	No, Yes	This item allow you to enable the TX, RX inverting which depends on different H/W requirement. This field is not recommended to change its default setting for avoiding any error in your system	Default
	No, No/		
	Yes, No/ Yes, Yes.		

### 3-5.6 Onboard Parallel Ports

Onboard Parallel Ports	Setting	Description	Note
<b>Onboard Parallel Port</b>	Disabled	Choose the printer I/O address.	Default
	378/IRQ7		
	3BC/IRQ7		
	278/IRQ5		
<b>Onboard Parallel Port Mode</b>	Normal	The mode depends on your external device that connects to this port.	Default
	EPP		
	ECP		
	ECP+EPP		
If [Parallel Port Mode] is set to [ECP] mode			
<b>ECP Mode Use DMA</b>	3	Choose DMA3	Default
	1	Choose DMA1	
If [Parallel Port Mode] is set to [EPP] mode			
<b>Parallel Port EPP TYPE</b>	EPP 1.9	Select EPP port type 1.9	Default
	EPP 1.7	Select EPP port type 1.7	

### 3-5.7 Onboard Legacy Audio

This field controls the onboard legacy audio.

	Setting	Description	Note
<b>Onboard Legacy Audio</b>	Disabled	Set this item to Enabled if using software (like DOS games) that needs a 'legacy' audio device.	Default
	Enabled		
<b>Sound Blaster</b>	Disabled	Set this item to enabled if your on-board audio-chip is sound Blaster compatible.	Default
	Enabled		
<b>SB I/O Base Address</b>	220H	Select the base address for your sound Blaster (SB) compatible Audio IC.	Default
<b>SB IRQ Select</b>	IRQ 5	Select the IRQ your SB Audio IC uses.	Default
<b>SB DMA Select</b>	DMA1	Select the DMA channel your SB Audio IC uses.	Default

	<b>Setting</b>	<b>Description</b>	<b>Note</b>
<b>MPU-401</b>	Disabled	Enable/Disable MIDI K/B support.	Default
	Enabled		
<b>MPU-401 I/O Address</b>	300-303H	Select an I/O address for MIDI port, using default is recommended.	
	310-313H		
	320-323H		
	330-333H		Default
<b>Game Port (200-207H)</b>	Enabled	Enable/Disable Game port.	Default
	Disabled		

### 3-6 POWER MANAGEMENT SETUP

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

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software  
Power Management Setup

▶ Power Management	Press Enter	Item Help Menu Level ▶
ACPI Suspend Type	S1 (POS)	
Video Off Option	Suspend -> Off	
Video Off Method	V/H SYNC+Blank	
MODE Use IRQ	3	
Soft-Off by PWRBTN	Instant-Off	
State After Power Failure	Off	
▶ Wake Up Events	Press Enter	

↑↓→:Move    Enter:Select    +/-/PU/PD:Value    F10:Save    ESC:Exit    F1:General Help  
F5:Previous Values    F6:Fail-Safe Defaults    F7: Optimized Defaults

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software  
Wake Up Events

VGA	OFF	Item Help Menu Level ▶
LPT & COM	LPT/COM	
HDD & FDD	ON	
PCI Master	OFF	
PowerOn by PCI Card	Disabled	
Modem Ring Resume	Disabled	
RTC Alarm Resume	Disabled	
x Date (of Month)	0	
x Resume Time (hh:mm:ss)	0 : 0 : 0	
Primary INTR	ON	
▶ IRQs Activity Monitoring	Press Enter	

↑↓→:Move    Enter:Select    +/-/PU/PD:Value    F10:Save    ESC:Exit    F1:General Help  
F5:Previous Values    F6:Fail-Safe Defaults    F7: Optimized Defaults

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



### 3-6.1 Power Management Controls

	Setting	Description	Note
<b>Power Management</b>		Lets you define the HDD and system power down times.	Default
		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
<b>ACPI Suspend Type</b>	S1(POS)	The system will enter the S1 state during suspend. (Low latency wake up)	Default
	S3(STR)		
<b>Video Off Option</b>	Suspend --> Off	When enabled, this feature allows the VGA adapter to operate in a power saving mode.	Default
	Always On All Modes --> Off		
<b>Video Off Method</b>	V/H	Selects the method by which the monitor is blanked.	Default
	Sync+Blank		
	Blank screen DPMS		
<b>MODEM Use IRQ</b>	3	Assigns an IRQ# to the modem device.	Default
	3-11, NA		
<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.	

**Power Management Controls (Continued)**

	Setting	Description	Note
<b>State After Power Failure</b>	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
	Auto	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)	
<b>Wake Up Events</b>	Press Enter	Select items that will wake up your system when in one of sleep modes. Press enter to go the select item page.	

<b>Wake Up Events</b>	Setting	Description	Note
<b>VGA</b>	OFF		Default
	ON	You can set the VGA awakens the system.	
<b>LPT &amp; COM</b>	LPT/COM	When <i>On of</i> LPT & COM, any activity from one of the listed system peripheral devices or IRQs wakes up the system.	Default
	NONE, LPT, COM		
<b>HDD &amp; FDD</b>	OFF	When <i>On of</i> HDD & FDD, any activity from one of the listed system peripheral devices wakes up the system.	Default
	ON		
<b>PCI Master</b>	OFF	When <i>On of</i> PCI Master, any activity from one of the listed system peripheral devices wakes up the system	Default
	ON		

Wake Up Events	Setting	Description	Note
<b>PowerOn by PCI Card</b>	Disabled	If enabled any PCI interrupt will wake up the system.	Default
	Enabled		
<b>Modem Ring Resume</b>	Disabled	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
	Enabled		
<b>Resume by Alarm</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.	
<b>Primary INTR</b>	ON	When set to <i>On</i> , any event occurring at will awaken a system which has been powered down.	Default
	OFF		
<b>IRQs Activity Monitoring (Press Enter)</b>	Primary	IRQ3(COM2), IRQ4(COM1), IRQ5(LPT2), IRQ6(Floppy Disk), IRQ7(LPT1), IRQ12(PS/2 mouse), IRQ13(Coprocessor), IRQ14(HardDisk)	
	Secondary	IRQ9(IRQ2 Redir), IRQ10(Reserved), IRQ11(Reserved)	
	Disabled	IRQ8 (RTC Alarm), IRQ15 (Reserved)	

### 3-7 PNP/PCI CONFIGURATION SETUP

This option sets the Motherboard's PCI Slots.

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software PnP/PCI Configurations		
PNP OS Installed	NO	Item Help
Reset Configuration Data	Disabled	
Resources Controlled By	Auto (ESCD)	Menu Level ▶
x IRQ Resources	Press Enter	
x DMA Resources	Press Enter	
PCI/VGA Palette Snoop	Disabled	
Assign IRQ For VGA	Enabled	
Assign IRQ For USB	Enabled	
INT Pin 1 Assignment	Auto	
INT Pin 2 Assignment	Auto	
INT Pin 3 Assignment	Auto	
INT Pin 4 Assignment	Auto	

↑↓→:Move	Enter:Select	+/-/PU/PD:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previous Values		F6:Fail-Safe Defaults		F7: Optimized Defaults	



**Note:** Starred (\*) items will disappear when the [Resources Controlled By] option is set to [Auto].

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.

### 3-7.1 PNP/PCI Configuration Controls

PNP/PCI Controls	Setting	Description	Note
<b>PnP OS Installed</b>	Yes	Set this field to [Yes] if you are running Windows 95, which is PnP compatible.	
	No	If the OS you are running does not support PnP configuration.	Default (If there is any doubt, set this field to [No])
<b>Reset Configuration Data</b>	Disabled	Retain PnP configuration data in BIOS.	Default
	Enabled	Reset PnP configuration data in BIOS.	
<b>Resources Controlled By</b>	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 (ESCD)	The Plug-and-Play BIOS auto manages PCI/ISA PnP card IRQ assignment automatically.	Recommended
If [Resources Controlled By] is set to [Manual]			
<b>IRQ-# and DMA-# assigned to:</b>	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
Under this item the user can assign an IRQ to a PCI slot. However, there under some conditions the IRQ will not be assigned as selected under this item:			
<ol style="list-style-type: none"> <li>1. IRQs 0, 1, 2, 6, 8, 13 can NOT be assigned, because they are fixed.</li> <li>2. IRQs 5, 9, 10, 11 are available</li> <li>3. IRQs 3,4,7,12,14 and 15 will only be assigned if they are free. See the table below on how to free them:</li> </ol>			

**PNP/PCI Configuration Setup (Continued)**

PNP/PCI Setup	Setting	Description	Note
Interrupt Line	How to set the BIOS to release the IRQ to the PnP Interrupt pool:		
	PnP / PCI configuration	Integrated Peripherals	
IRQ 15	IRQ 15: <b>PCI / ISA PnP</b>	On-Chip Secondary PCI IDE:	<b>disabled</b>
IRQ 14	IRQ 14: <b>PCI / ISA PnP</b>	On-Chip Primary PCI IDE:	<b>disabled</b>
IRQ 12	IRQ 12: <b>PCI / ISA PnP</b>	<i>Interrupt 12 will be released by the PnP BIOS automatically if the PS/2 Mouse Port is not used.</i>	
IRQ 7	IRQ 7: <b>PCI / ISA PnP</b>	Onboard parallel port:	<b>disabled</b>
IRQ 4	IRQ 4: <b>PCI / ISA PnP</b>	Onboard Serial port 1:	<b>disabled</b>
IRQ 3	IRQ 3: <b>PCI / ISA PnP</b>	Onboard Serial port 2:	<b>disabled</b>
4. Your OS may reassign another interrupt to a PCI slot after BIOS passes control to the OS, especially if you use Windows 95, 98 or NT.			
<b>Assign IRQ For VGA/USB</b>	Disabled	BIOS will assign IRQ for VGA/USB port.	
	Enabled	BIOS won't assign IRQ for VGA/USB port.	Default
5. Your OS may reassign another interrupt to a PCI slot after BIOS passes control to the OS, especially if you use Windows 95, 98 or NT.			
<b>INT Pin 1/2/3/4 Assignment</b>	Auto	Set to Auto the BIOS will using IRQs Automatically.	Default

### 3-7.2 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)

### 3-8 PC HEALTH STATUS

This option sets the Motherboard's PC Health Status.

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software  
 PC Health Status

Current CPU Temp.	37 ° C / 98 ° F	Item Help  Menu Level ▶
Current System Temp.	31 ° C / 87 ° F	
Current CPUFAN Speed	5192 RPM	
Current CHAFAN Speed	0 RPM	
Vcore	1.73 V	
2.5V	2.56 V	
3.3V	3.41 V	
5V	5.15 V	
12V	12.18 V	

↑↓→:Move	Enter:Select	+/-/PU/PD:Value	F10:Save	ESC:Exit	F1:General Help
F5:Previous Values	F6:Fail-Safe Defaults	F7: Optimized Defaults			



**Note:** Starred (\*) items will disappear when the [Resources Controlled By] option is set to [Auto].

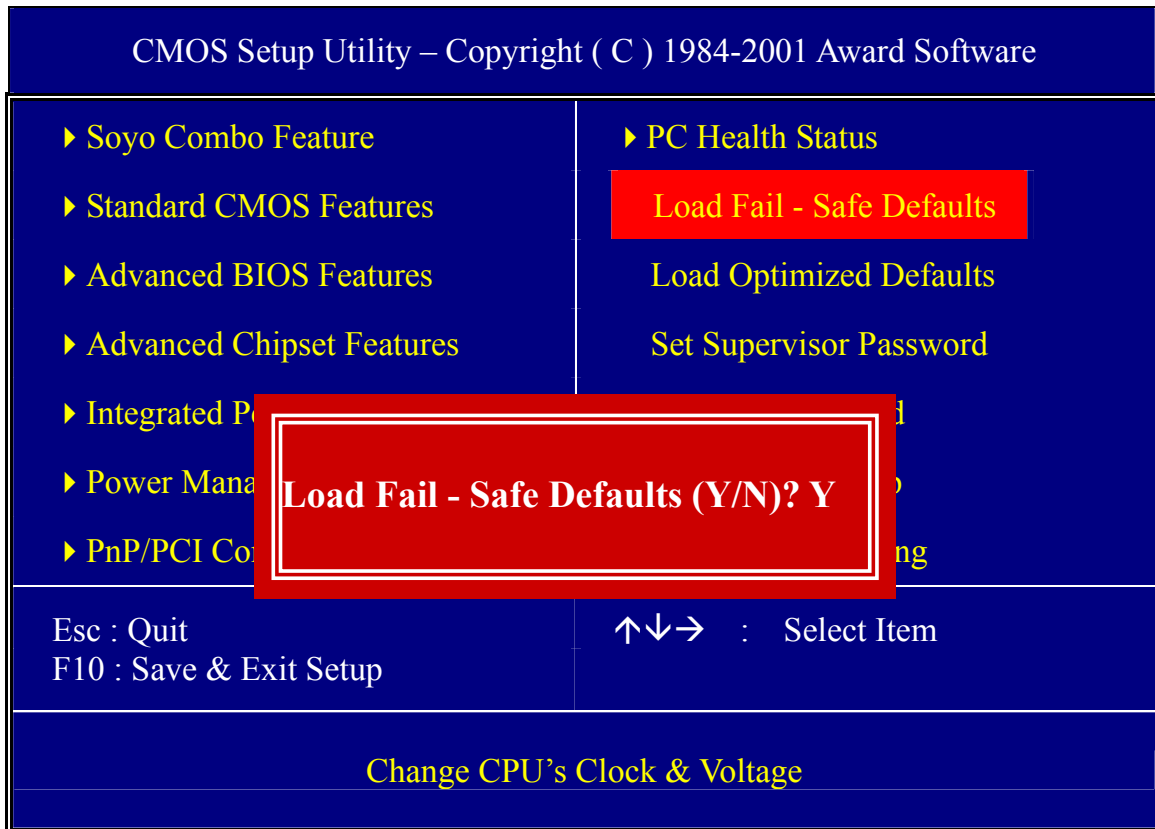
### 3-8.1 CPU Device Monitoring

CPU Device Monitoring	Setting	Description	Note
Current CPU Temp.	°C/°F	Show the current status of CPU temperature.	
Current System Temp.	°C/°F	Show the current status of the system temperature.	
Current CPUFAN Speed	RPM	Show the current status of CPU Fan	
Current CHAFAN Speed	RPM	Show the current status of the chassis Fan	
Vcore, 2.5V, 3.3V, +5V, +12V	V	Show the current voltage status.	



### 3-9 LOAD FAIL-SAFE DEFAULTS

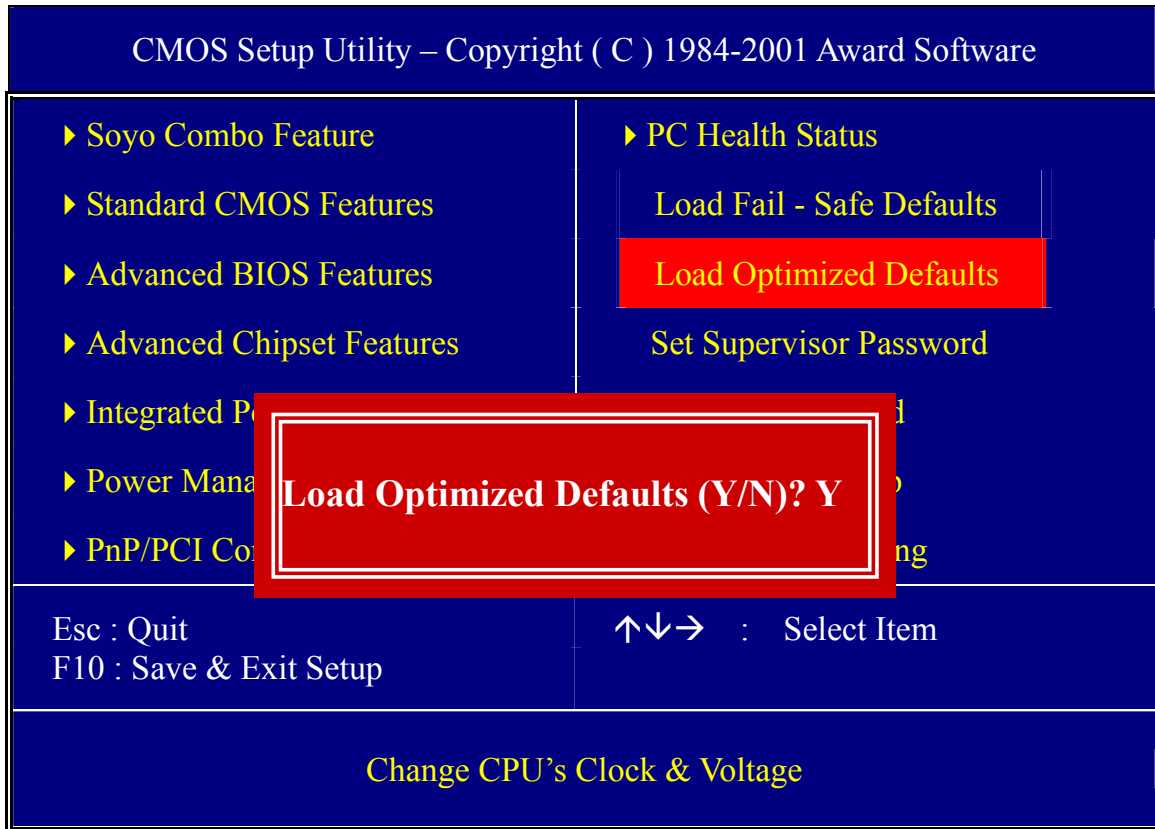
Select the [Load Fail-Safe Defaults] option from the Main Menu to load a pre-defined safe bios settings. This option is recommended if you have instability issue.



Type [Y] to use the Setup Defaults followed by [Enter] or otherwise [N] to return to the Main Menu and keep current values.

### 3-10 LOAD OPTIMIZED DEFAULTS

Select the [Load Optimized Defaults] option from the Main Menu to load a pre-defined optimized BIOS settings.



Type [Y] to use the Setup Defaults followed by [Enter] or otherwise [N] to return to the Main Menu and keep current values.



**Warning:** If you run into any problem after changing the BIOS configuration, please load the Fail-Safe Defaults for stable performance.

### 3-11 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.

---



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

Password Disabled!!

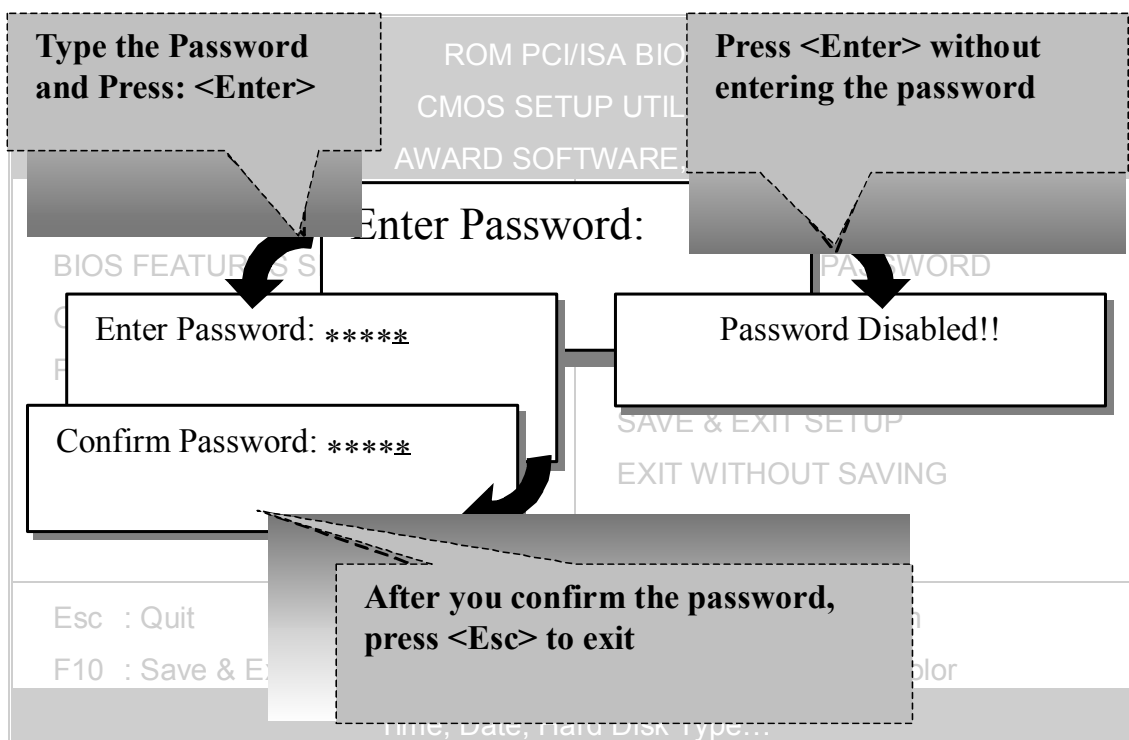
---

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:



### 3-12 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 3-11).

### 3-13 IDE HDD AUTO DETECTION

This Main Menu function automatically detects the hard disk type and configures the [Standard CMOS Features] accordingly.

CMOS Setup Utility – Copyright ( C ) 1984-2001 Award Software  
IDE Primary Master

IDE HDD Auto-Detection	Press Enter	Item Help
IDE Primary Master	Auto	Menu Level ▶
Capacity	0 MB	
Access Mode	Auto	
Cylinder	0	
Head	0	
Precomp	0	
Landing Zone	0	
Sector	0	

↑↓→:Move    Enter:Select    +/-/PU/PD:Value    F10:Save    ESC:Exit    F1:General Help  
 F5:Previous Values    F6:Fail-Safe Defaults    F7: Optimized Defaults



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

## Chapter 4

### DRIVERS INSTALLATION



**The SOYO-CD will Auto Run only in Windows Base Operating System.**

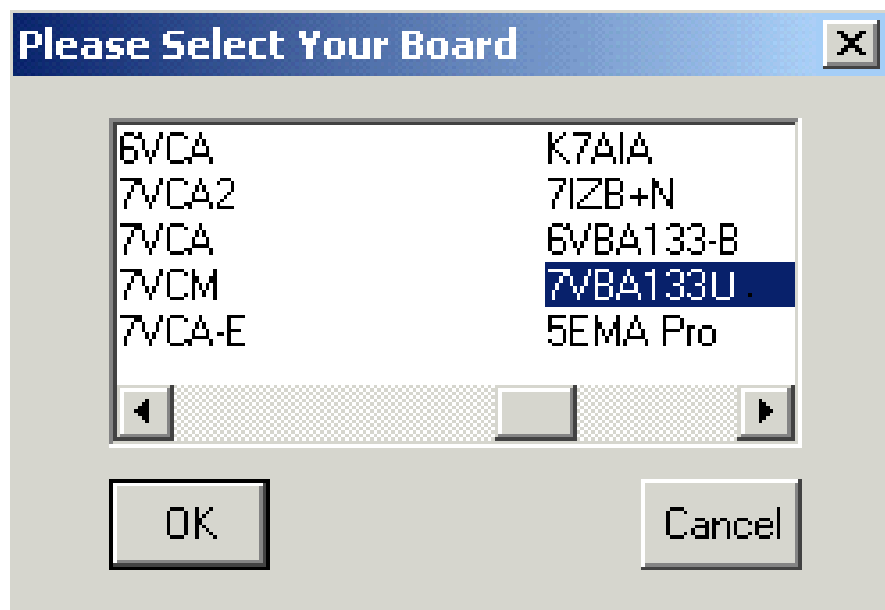
Your SY-KT333 DRAGON Plus motherboard comes with a CD-ROM labeled "SOYO CD." The SOYO CD contains

- The user's manual for your new motherboard - in PDF format,
- The drivers software available for installation, and
- A database in HTML format with information on SOYO motherboards and other products.

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

If you are running Windows NT/2K/XP, the SOYO-CD will not detect your motherboard type. In that case the following dialog will pop up. Please choose your motherboard model number and press OK.

Now the SOYO-CD Start Up Menu will come up as shown on the following page



(SOYO CD Start Up Program Menu)

Under Windows 95/98/ME, the SOYO CD Start Up Program automatically detects the SOYO motherboard the system uses and displays the corresponding model name.

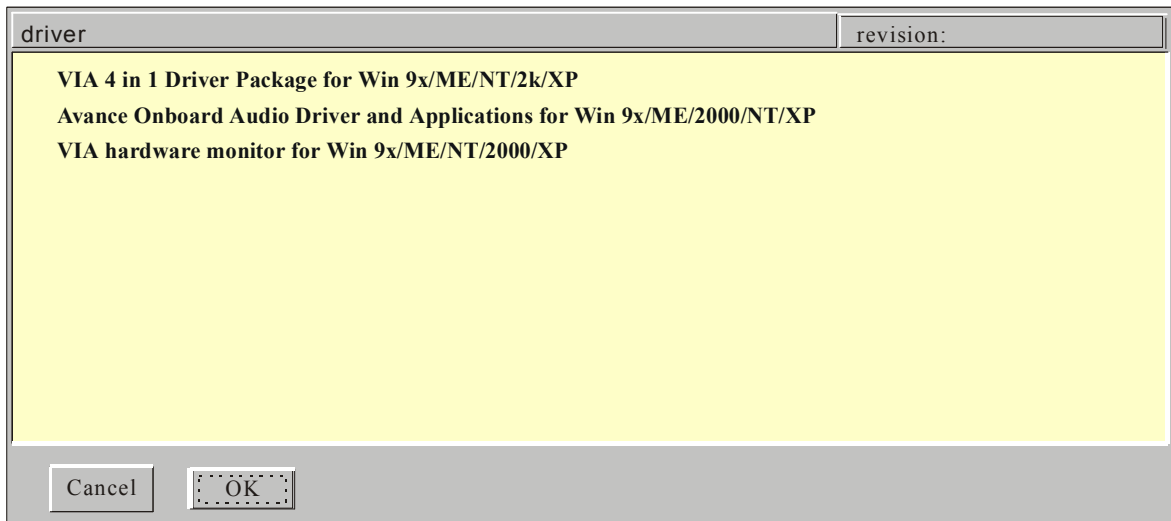


The user's manual files included on the SOYO CD are in PDF (Postscript Document) format. In order to read a PDF file, the appropriate Acrobat Reader software must be installed in your system.

**Note:** The Start Up program automatically detects if the Acrobat Reader utility is already present in your system, and otherwise prompts you on whether or not you want to install it. You must install the Acrobat Reader utility to be able to read the user's manual file. Follow the instructions on your screen during installation, then once the installation is completed, restart your system and re-run the SOYO CD.

## Step 2. Install Drivers and Utilities

Click the **Install Drivers** button to display the list of drivers software that can be installed with your Motherboard. The Start Up program displays the drivers available for the particular model of Motherboard you own. We recommend that you only install those drivers.



### (Driver Installation Menu)

A short description of all available drivers follows:

➤ **VIA 4 in 1 Driver Package for Win 9x/ME/NT/2k/XP**

VIA 4 In 1 driver includes four system drivers to improve the performance and maintain the stability of systems using VIA chipsets. These four drivers are:

VIA Registry (INF) Driver, VIA AGP VxD driver, VIA ATAPI Vendor Support Driver and VIA PCI IRQ Miniport Driver. For Windows NT users, the VIA IDE Bus Mastering driver is the only driver to be installed in your system.

A description of 4 drivers followa:

—**Bus Master PCI IDE Driver**

The ATAPI IDE driver enables the performance enhancing bus mastering functions on ATA-capable Hard Disk Drives and ensures IDE device compatibility.



**—AGP VxD Driver**

VIA AGP VxD Driver is to be installed if you are using an AGP VGA device. VIAGART.VXD will provide service routines to your VGA driver and interface directly to hardware, providing fast graphical access.

**—VIA Chipset Functions Registry**

VIA Registry (INF) Driver is to be installed under Windows. The driver will enable the VIA Power Management function.

**—IRQ remapping utility (This driver is installed automatically)**

VIA PCI IRQ Miniport Driver is to be installed under Windows 98 only, it sets the system's PCI IRQ routing sequence.

**➤ Avance Onboard Audio Driver and Applications for Win 9x/ME/2000/NT/XP**

This sound driver with applications is for windows 98, 98SE, ME, NT4.0, 2000 and XP. The application support file formats including .MP3, .CDA, .MIDI, .WAV & .WMA.

**➤ VIA hardware monitor for Win 9x/ME/NT/2000/XP**

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.

Select which driver you want to install and click **OK**, or click **Cancel** to abort the driver installation and return to the main menu.

**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.

**Step 3. Check the Latest Releases**

Click the 'Check the latest Releases' button to go the SOYO Website to automatically find the latest BIOS, manual and driver releases for your motherboard. This button will only work if your computer is connected to the internet through a network or modem connection. Make sure to get your modem connection up before clicking this button.

# **APPENDIX A**

## **Troubleshooting at First Start**

### **Video (no display) related issues**

**I built a new computer system using a Soyo board and nothing happens when turning it on, no video and no beeps from the PC speaker. What is happening and how can it be fixed?**

No screen and no beeps mean that your CPU and motherboard do not work at all. It could be that the CPU is not seated correctly or that a component on the M/B is grounded (shorted) with the case. Also make sure to check the voltage setting switch (110V/220V) on the back of the power supply. To isolate the problem do the following:

1. Press and hold down on the “Ins” (insert) key while turning on the computer until you get video. If you do not get video then,
2. Double-check jumpers setting on you motherboard and remove all add-on cards, unplug all hard-disk and floppy-disk drive cables and see if you can hear some beeps. If you still do not get any beeps, then try putting the motherboard on the table (to isolate it from the case) with the CPU and speaker only, and give it one more try.

**I hear a series of beeps and I do not get anything from my monitor. What could be wrong?**

The following lists some basic beep codes and their possible meanings:

- One long beep and 3 very short beeps - The video card is not detected by the motherboard. Please re-seat your video card. If you are using an AGP card, please push your AGP card down real hard. You may have to push VERY hard without the AGP card mounting screw. Make sure not to insert the card the other way around.

- Continuous beeps – One or more of the memory modules is not seated correctly in its socket.

**My PCI VGA card works fine with my system, but when I put in a new AGP card, it does not give me any video. Is my AGP slot bad?**

This is a common problem with AGP video cards. The reason is that your AGP card did not get seated into the AGP slot fully and firmly. Please push your AGP card down into the socket real hard, it should snap twice. You may have to unscrew the AGP card to allow the card to go further down. Do take care not to damage the card by using too much force.

**I get distorted video my AGP card right after I save my bios. Why is that?**

The cause is likely that your AGP card is not running at the correct bus speed. To fix this, please clear the CMOS via JP5 and if it still does not work, please upgrade your motherboard bios to the latest version.

## **BIOS Issues**

**Where can I find the BIOS revision of my mainboard?**

It will be displayed on the up-left corner on the screen during boot-up. It will show as your board type followed by the revision number, such as 5EH\_2CA1 (meaning revision 2CA1 for the SY-5EH board) or 6BA+ IV\_2AA2 which means SY-6BA+ IV motherboard with 2AA2 bios.

**Where can I find the latest BIOS of my motherboard?**

Please go to the technical support page of one of the SOYO websites (Taiwan: [www.soyo.com.tw](http://www.soyo.com.tw)), and look up your motherboard to find the latest BIOS revision.

## **Hard disk, floppy drive, CD-ROM etc**

**When I boot up my new computer I got "floppy boot failure" and the LED on the floppy stays on**

Make sure the red wire of floppy ribbon cable goes to Pin1 on the floppy drive side (don't trust the "key lock" or "notch") and use the end-connector of the cable (don't use middle one).

## **Modem issues**

**I get an "I/O Conflict" message when I turn on my system and I can not get my modem to work**

What you need to do is to disable 'COM2' (or UART2 or serial port 2) in the bios under integrated peripheral setup.

**I have installed my modem drivers several times and I still cannot get my modem to work. Why?**

If you are sure that the modem driver has been installed correctly, then you need to install the VIA 4 in 1 driver from the SOYO CD, this is because Windows does not properly recognize relatively new chipsets.

## **Audio Issues**

**How can I disable the on-board Audio ?**

Set the "OnChip sound" option in the BIOS to disable this option can be found under SOYO COMBO Feature.

**I do not get any sound from my on-board audio. What could be wrong?**

Please make sure the speaker is connected to the speaker out port on your sound card.

**In Device Manager, I keep getting yellow exclamation signs on my sound port even though I have installed my sound driver several times and I could not get my sound card to work. What is wrong?**

It is likely that you did not have the correct driver installed. If you are sure that the correct sound driver has been installed, then please install the 'VIA 4 in 1' driver for the motherboard.

**The sound is working in my system, but when I play CD music from the CD-ROM, I do not get any sound. What is wrong?**

This is because the 3-wire audio cable from the CD-ROM to the sound card is not connected or it is loose.

**The sound and everything else works fine except that the recorder and microphone do not work. What is wrong?**

This is because the recorder and microphone in the Windows are not enabled. Please go to sound properties and enable them.

### **Lock up (freeze)**

**When I boot up my system, everything works fine. It sees my CPU and memory, detects my hard drive, floppy drive and CD-ROM but locks up at "Verify DMI pool data... ", and it won't go any further.**

#### **What should I do?**

Please clear the CMOS via JP5 then choose 'load optimized default' in the bios and save the bios and exit. Next, unplug all other add-on cards except the video card and floppy drive controller, and see if it can boot from floppy. Then put back the peripherals one by one to identify which one causes the lockup.

#### **I can not get my board to run properly.**

Please make sure you have the latest bios and driver from the SOYO web site at:

<http://www.soyo.com>

## **APPENDIX B**

### **How to contact us:**

- If you are interested in our products, please contact the SOYO sales department in the region you live.
- If you require Technical Assistance, please contact our Technical Support in the region you live.

SOYO prefers Email as communication medium, remember to *always add to the email the country that you live in.*

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