



SY-KT333 DRAGON Lite Motherboard

AMD Athlon & Duron Processors Supported

VIA KT333 AGP/PCI Motherboard

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: April 2002

Version 1.0

KT333 DRAGON Lite 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-KT333 DRAGON Lite** AGP/PCI motherboard is a high performance Socket A ATX form-factor system board. The **SY-KT333 DRAGON Lite** uses VIA Chipset technology and supports AMD Socket A 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:

◆ The SY-KT333 DRAGON Lite AGP/PCI motherboard



◆ The user manual



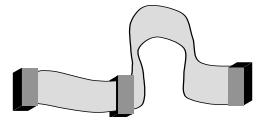
◆ The Installation CD-ROM



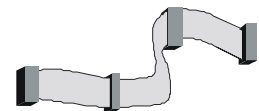
◆ SOYO Bonus Pack CD-ROM



◆ 3 IDE Device ATA 66 Flat Cable



◆ One Floppy Disk Drive Flat Cable



◆ One Heat Sink Compound



◆ Two Spacer Support



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

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-KT333 DRAGON Lite supports the following AMD[®] K7 CPUs:

- Supports 200/266 MHz Front Side Bus Athlon /XP CPU (750MHz ~ 2100+)
- Duron[™] /Morgan CPU (650MHZ ~ 1.2GHz)

Newly released AMD Socket A CPUs may be supported by the SY-KT333 DRAGON Lite. Please contact SOYO Technical Support at <http://www.soyo.com> for further information.

➤ CPU SETTINGS

The SY-KT333 DRAGON Lite 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-KT333 DRAGON Lite supports a wide range of CPU FSB frequency settings:

- ◆ 100~132MHz for 100MHz FSB CPU
- ◆ 133~233MHz for 133MHz FSB CPU

For accuracy and to maximize the board's overclocking potential, the CPU FSB frequency can be set up by 1 MHz increment. Please refer to Section 2-3 Quick BIOS Setup for further information. This ensures that the SY-KT333 DRAGON Lite has an overwhelming overclocking potential.

■ CPU Ratio Select

The SY-KT333 DRAGON Lite supports a wide range of multipliers: 6.0x, 6.5x, 7.0x, 7.5x, 8.0x, 8.5x, 9.0x, 9.5x, 10.0x, 10.5x, 11.0x, 11.5x, 12.0x, 13.0x and 14.0x.

➤ MEMORY SUPPORT

The SY-KT333 DRAGON Lite supports PC1600, PC2100 and PC2700 DDR Memory module.

➤ EXPANDABILITY

The SY-KT333 DRAGON Lite provides all the standard expansion slots, and many more additional expansion features:

◆ Expansion slots

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

◆ Enhanced IO

- Floppy disk controller
- 2x EIDE controllers with support for up to 4 Ultra DMA 33/66 /100/133 devices
- Standard/EPP/ECP parallel port
- 2x 16550 compatible serial ports
- IrDA compatible infrared port
- 4x USB (Universal Serial Bus) connectors
 - 2x USB 1.1 port ; 2x USB1.1 connectors
- PS/2 mouse connector
- PS/2 keyboard connector

➤ C-MEDIA HARDWARE AUDIO

Supports 2/4 speakers and DLS based wave table music. Also provides professional SPDIF IN/OUT non-distortion digital interface. Use the C-Media

CMI8738-SX chipset.

➤ **SMART CARD READER PIN HEADER**

Compliant with Personal Computer Smart Card (PC/SC) Working Group standard. A smart card reader is required.

➤ **ADVANCED FUNCTIONS**

The SY-KT333 DRAGON Lite supports advanced functions such as:

■ **Wake-On-LAN**

Some advanced network cards can wake the system up over the network, the WOL connector is provided by the SY-KT333 DRAGON Lite to support this function.

■ **Multiple boot**

Booting from devices such as CD-ROM.

■ **Power on by modem or alarm**

This special feature enables the system to be switched “ON” from “SUSPEND” mode through a modem or RTC alarm. Practical remote access to switch the system on only after the modem receives a call.

➤ **FAIL SAFE**

The SY-KT333 DRAGON Lite presents many added functionality to make managing the system easy and fail-proof.

◆ **Hardware Monitor**

The integrated Hardware Monitor IC and Hardware doctor software enables the user to monitor system voltages, temperatures and FAN speeds. This feature ensures that the user is full control of the system.

◆ **Power Failure Resume Function**

This function can be set in the BIOS, and it determines whether the system will automatically turn on again after a power failure. This useful feature is indispensable for server systems that need to always stay connected and have low down time.

◆ **5VSB Indicator**

This green LED gives an indication of the presence of the 5V Standby voltage. This voltage is always fed into the motherboard and is used for functions such as WOL.

➤ **SOYO Bonus Pack CD-ROM**

➤ **COMPLIANCE**

The SY-KT333 DRAGON Lite complies with all important industry standards. The following underlines the reliability of the SY-KT333 DRAGON Lite, a motherboard to trust.

- PC99, ACPI compliant

➤ **WARRANTY**

All SOYO motherboards are back with one-year manufacturer's warranty from the date of purchase. Please retain your original receipt for future warranty inquiries.

➤ **USER FRIENDLY**

- SOYO COMBO Setup
- Jumperless design
- Maximize performance at the level of BIOS :
 - CPU FSB frequency
 - CPU multiplier
 - CPU Vcore voltage
 - DDR RAM Clock
 - DDR Voltage
 - AGP Voltage

1-4 HANDLING THE MOTHERBOARD

To avoid damage to your motherboard, please 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 set 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.

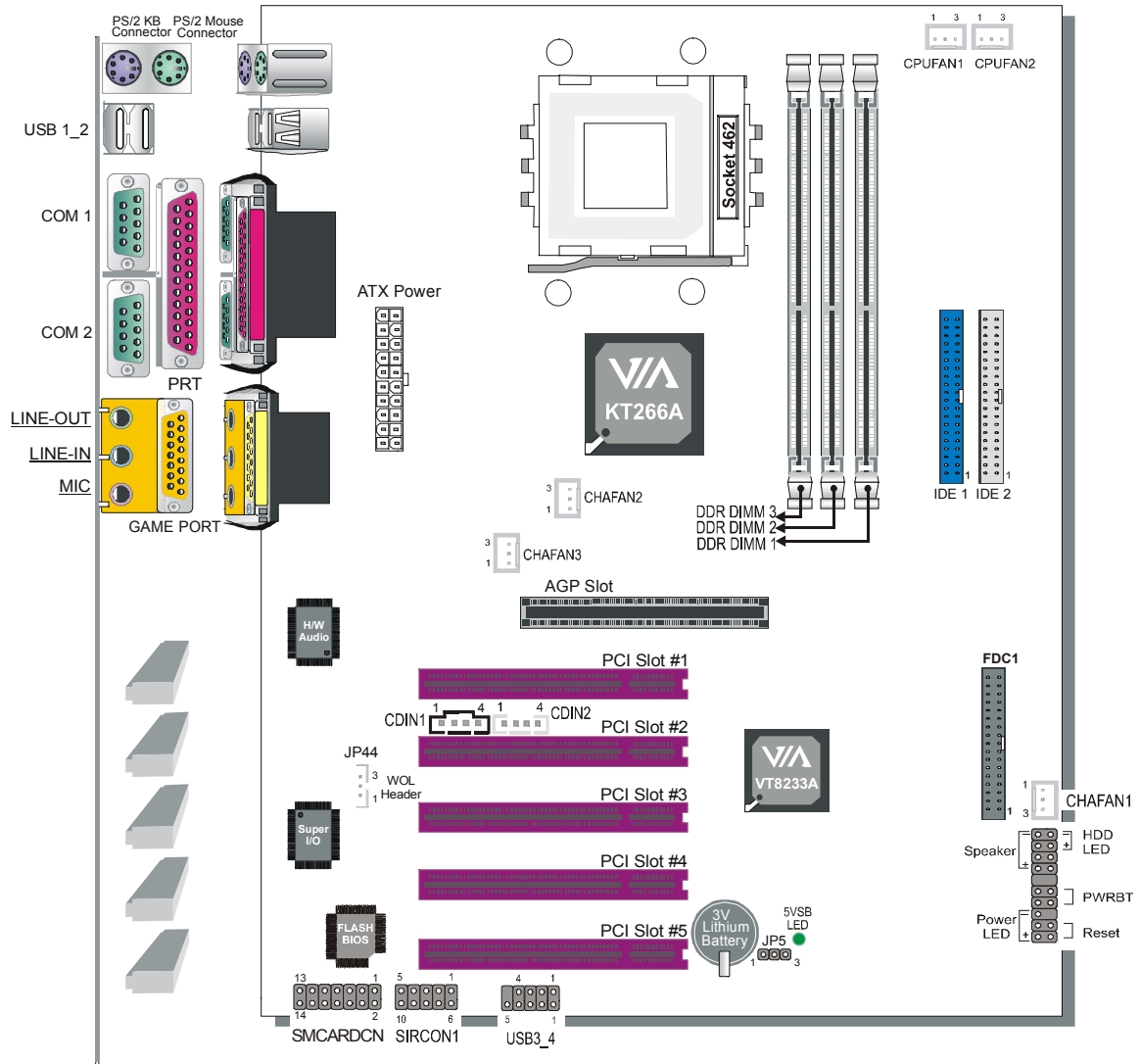
1-5 ELECTROSTATIC DISCHARGE PRECAUTIONS

Be 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.

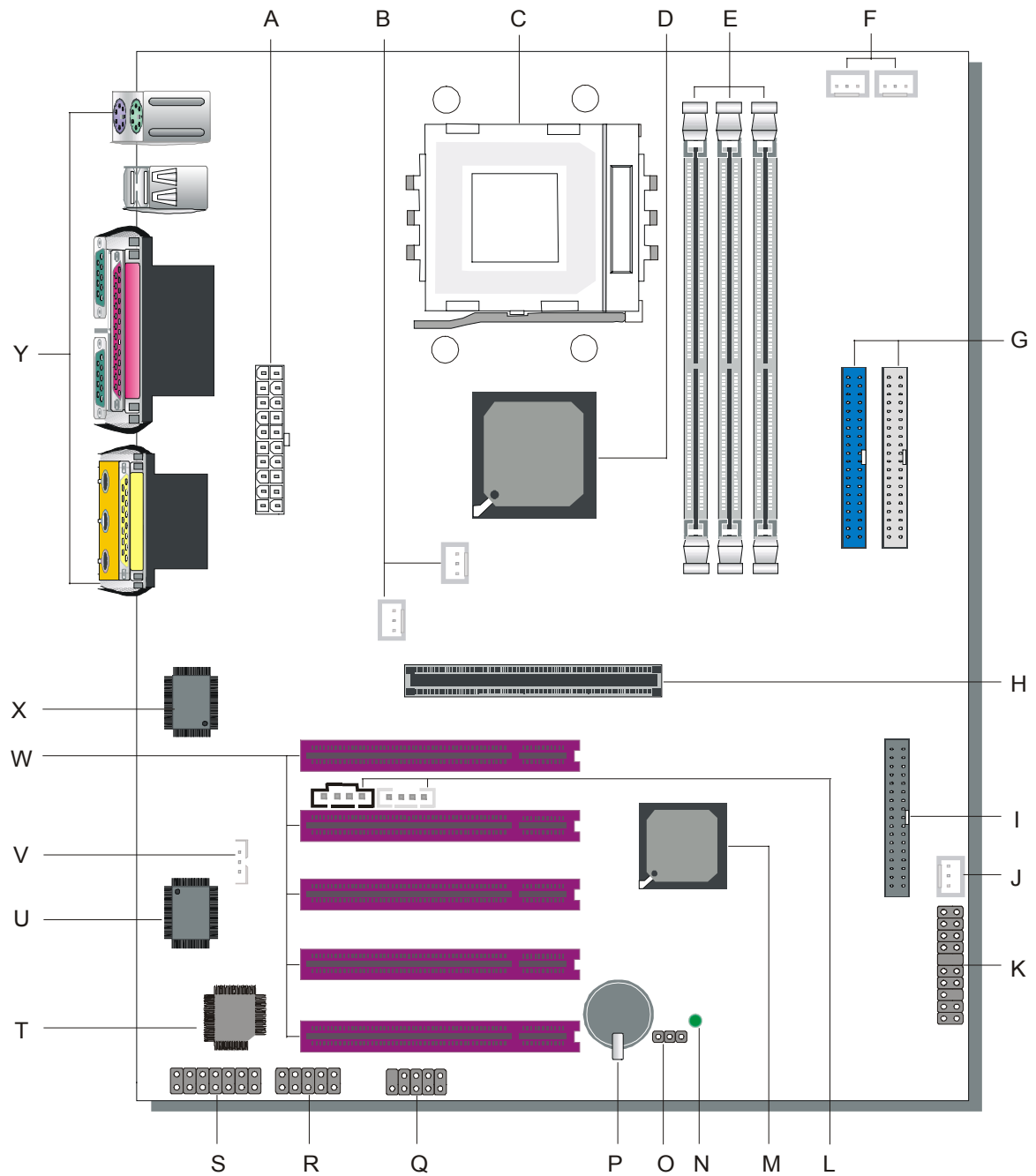
1-6 SY-KT333 DRAGON Lite MOTHERBOARD LAYOUT



Back Panel

SY-KT333 DRAGON Lite Platform

1-7 SY-KT333 DRAGON Lite MOTHERBOARD COMPONENTS



- A ATX Power Supply Connector**
- B Chassis Cooling Fan Connector**
- C Socket A Connector**
- D VIA KT266A North Bridge Chip**
- E DDR DIMM Banks**
- F CPU Cooling Fan Connector**
- G Bus Mastering EIDE/ATAPI Ports**
- H AGP Slot**
- I Floppy Disk Drive (FDD) Port**
- J Chassis Cooling Fan Connector**
- K Front Panel Connectors**
- L CD-IN Connector VIA**
- M VT8233A South Bridge Chip**
- N 5V Stand-By Indicator LED**
- O CMOS Clear Jumper**
- P 3V Lithium Battery**
- Q USB 1.1 Ports**
- R Serial Infrared (IrDA) Device Header**
- S Smart Card Reader Connector**
- T Flash BIOS**
- U ITE I/O Chip**
- V Wake-On-LAN (WOL) Header**
- W 32-bit PCI Mastering Slots**
- X C-Media Onboard Audio Chip**
- Y Back panel Connectors**

Chapter 2

HARDWARE INSTALLATION

Congratulations on owning a-SY-KT333 DRAGON Lite. 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 A processor with built-in CPU cooling fan (boxed type)



Note: This motherboard supports non-boxed type CPUs. The heavier CPU cooling fan requires the installation of a CPU support stand.

2. DDR RAM 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: Modem and LAN cards (optional)

2-2 INSTALLATION GUIDE

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

Step 1- Assembling the motherboard to the case

Step 2- Install the Central Processing Unit (CPU)

Step 3- Install memory modules

Step 4- Install expansion cards

Step 5- Connect cables, case wires, and power supply

Step 6- Power on and enter BIOS setup

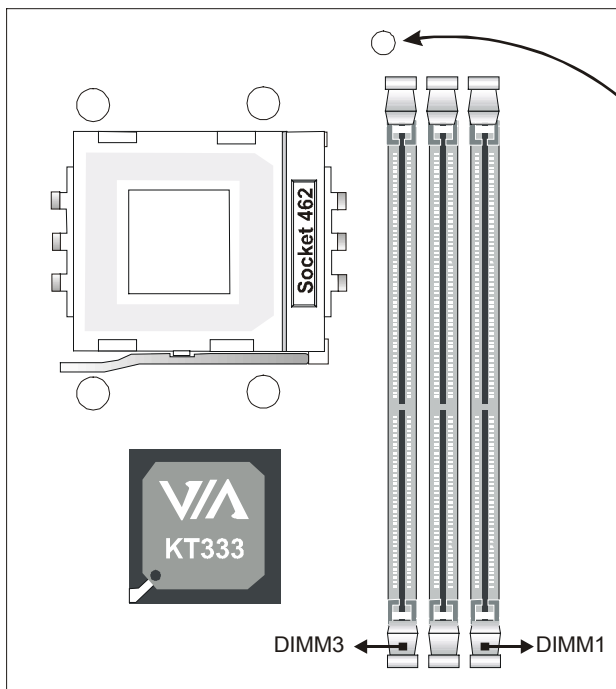
Step 7- Install supporting software tools. See Chapter 4 for more info.



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

BEGIN THE INSTALLATION

Step 1 Assembling the motherboard to the case

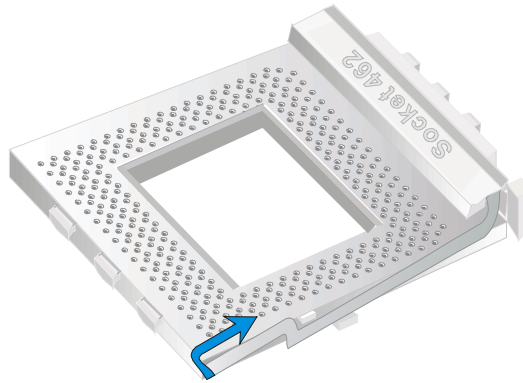


To avoid shorting the motherboard to the case, please use the provided spacer support on this screw hole...

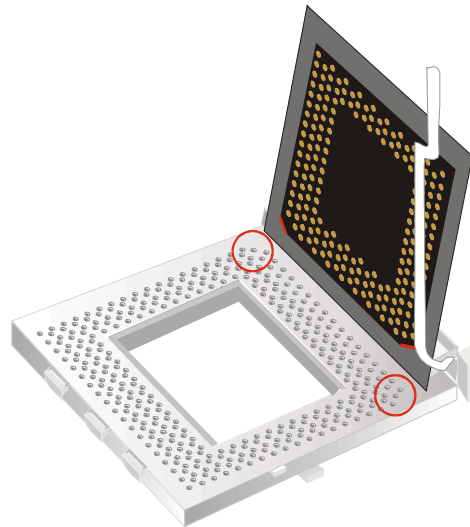
Step 2 Install the CPU

CPU Mount Procedure: To mount the AMD® K7 Athlon & Duron™ processor that you have purchased separately, follow these instructions.

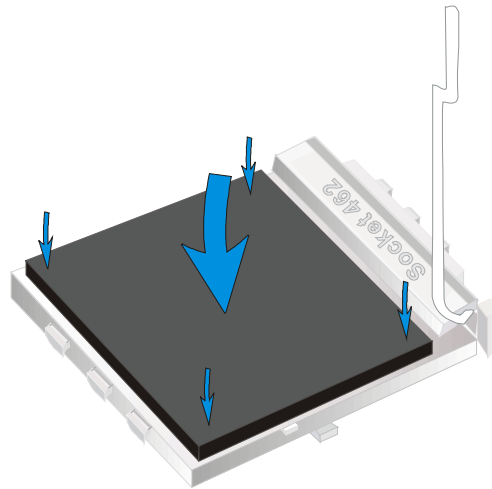
1. Lift the socket handle up to a vertical position.



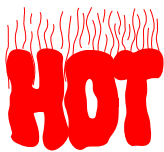
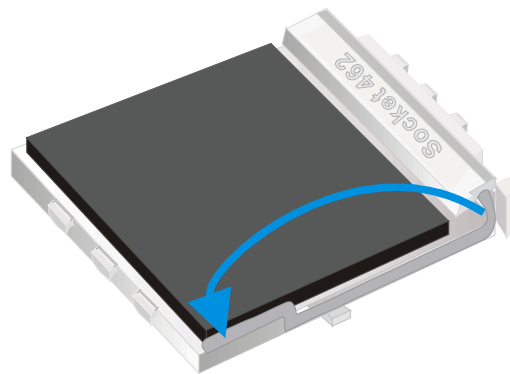
2. Align the blunt edge of the CPU with the matching pinhole distinctive edge on the socket.



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



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



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. It prevents overheating, therefore prolonging the life of your CPU.

CPU Fan Installation

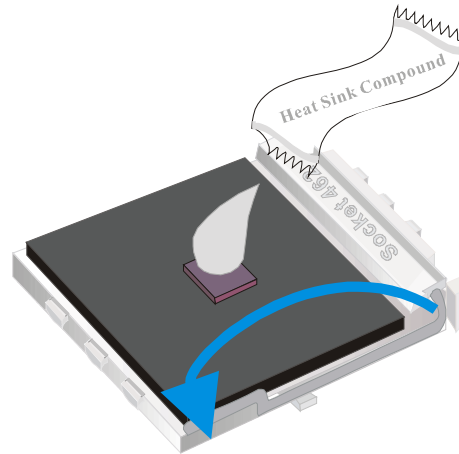
Your Socket A processor kit comes with a cooling fan. Mount the fan on the processor according to the instructions provided by the manufacturer. The fan is a key component that will ensure system stability. The fan prevents overheating, therefore prolonging the life of your CPU.



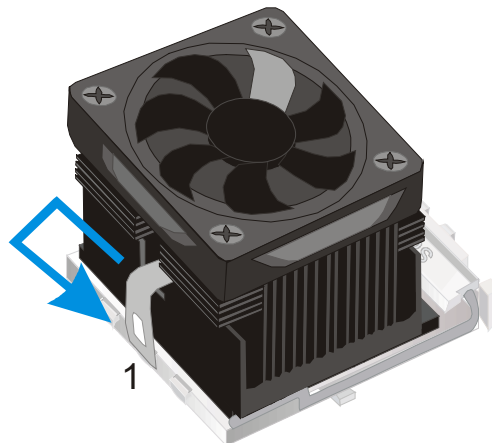
Note: Remember to connect the fan to the appropriate power source.

CPU Fan Mount Procedure: To prevent scratch or damage on the motherboard, please follow the instructions on how to mount the CPU fan properly.

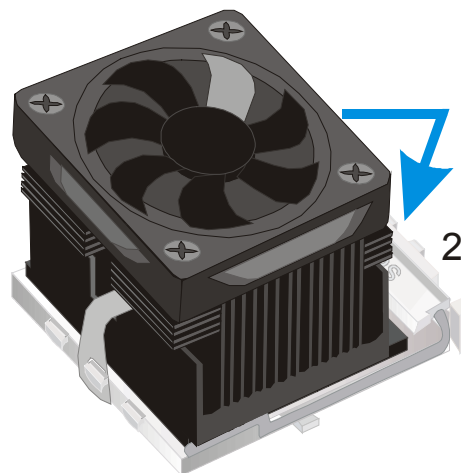
1. Apply thermal paste to the die of the CPU.



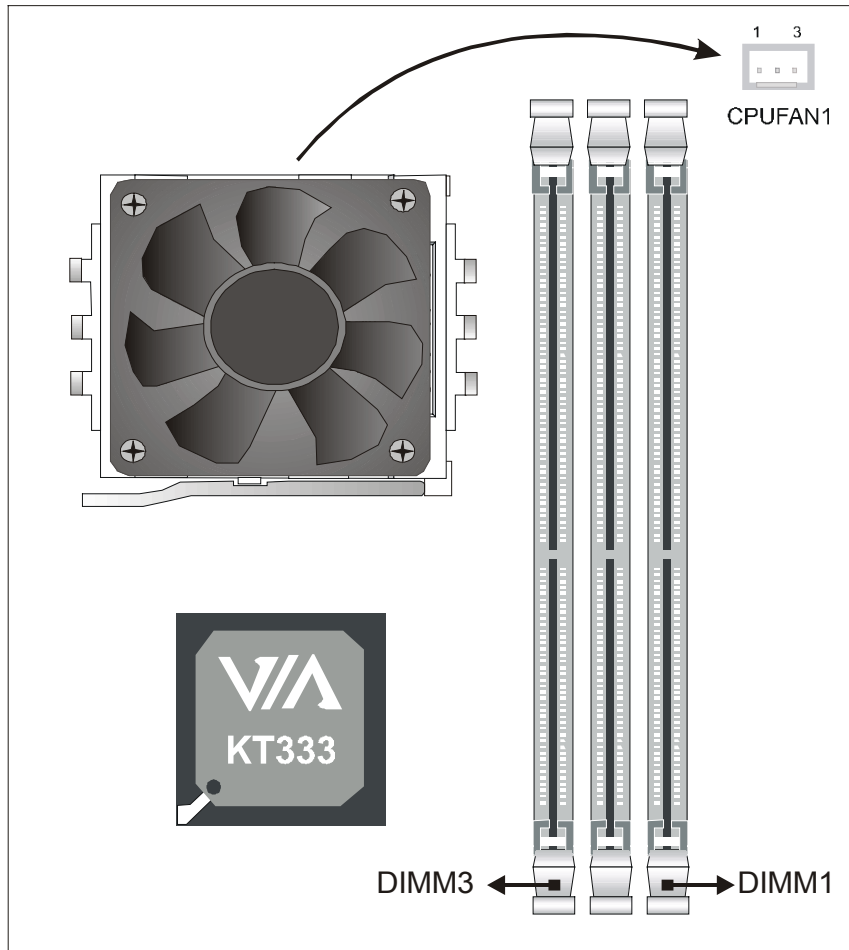
2. Carefully mount the fan on top of the CPU and clip-on the first lock.



3. Clip-on the second lock and please make sure not to damage/scratch the board.



4. The fans power connector should be connected to CPUFAN1.



Note: If the fan is defective or Power connector is not connected to CPUFAN1, the system will enable Fan Off Control function. See below for more information on FOC function.

FOC (Fan-Off Control)

The newly designed SOYO “FOC” is based on the concept of total protection for CPU, which is very different from currently seen on the market. The H/W control function is used to see a passive security system of monitoring and warning. S/W Simultaneous Signal Follow-ups techniques and Auto Power Off System are included to prevent all possible damage caused by the malfunctioning of the CPU fan. With the help of “O/S On Time Monitoring And Warning” function, provided by the H/W monitoring system, the double-protection purpose is achieved.

“FOC” includes the following functions:

- (1) **Simultaneous Signal Follow Ups:** Before the system enters the O/S, H/W will detect the signals of the CPU fan pins, get their revolution information and send it to the BIOS.
- (2) **Auto Power Off System:** If the BIOS receives the information of CPU fan revolution, it continues to function normally. If no signal is received, it will inform the system and disconnects the power supply immediately to protect the CPU from overheating.

Note: The following must be observed to secure the normal functioning of “Fan-Off Control”:

- 1. FOC only works on CPUFAN 1.**
2. CPU fan with sensor pins must be used.
3. CPU fans approved by AMD are strongly recommended.

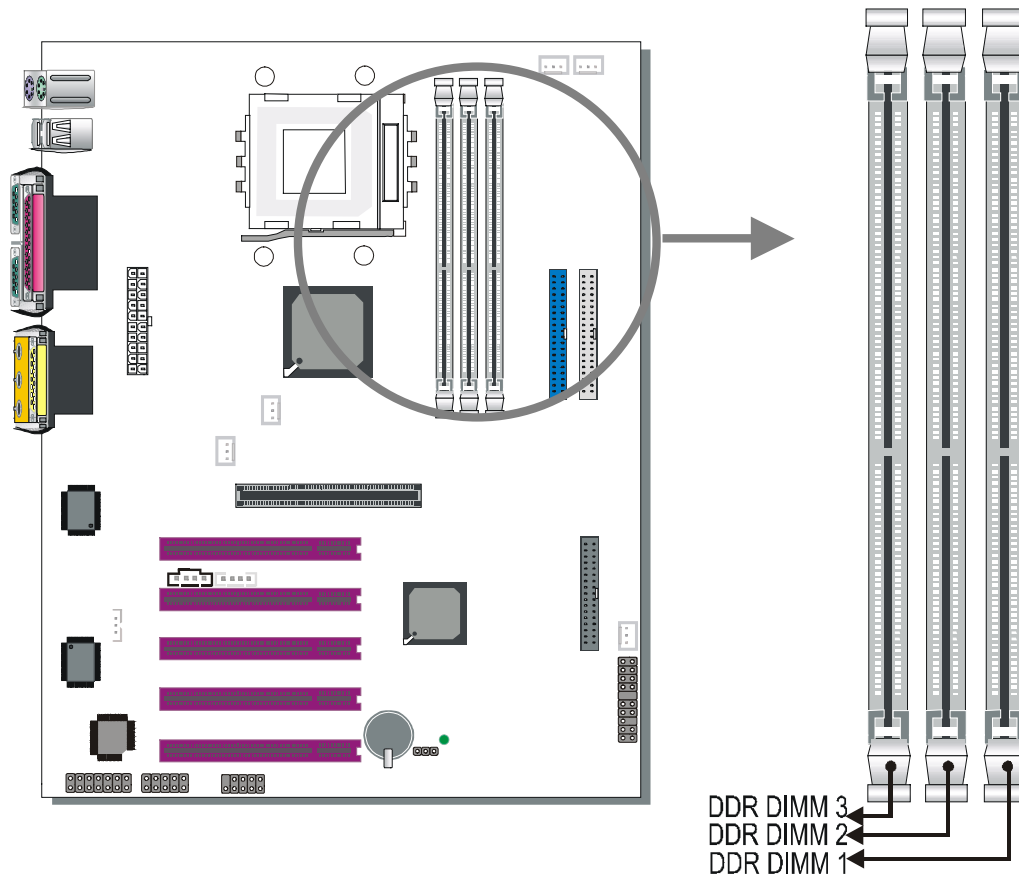
The “HOT KEY” function is provided for the CPU fans without sensor pins, to avoid the power off. Users may press the “Insert” key to jump over the “Power Off” mode; go to the BIOS and disable “FOC”. Now system can be booted normally.

We provide the following User-Friendly protection features:

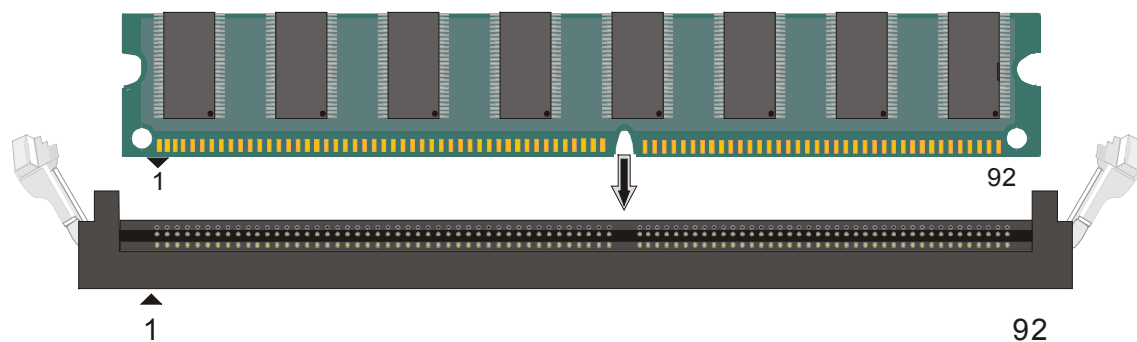
1. **Fan-Off Control:** The motherboard detects the status of the CPU fan and protects the CPU by automatically disconnecting the power supply. The default value of this function is Enable. After booting up, the user may disable it.
2. **Heat Dissipation Paste:** Heat Dissipation Paste is included for all Socket-A motherboards, to enhance the heat dissipation capability.

Furthermore, we strongly recommend our users to enable the function of H/W monitoring in the BIOS. This function, together with the FOC, provides the total protection to the CPU and allows it to maximize its performance.

Step 3 Install Memory Module



Your board comes with three DIMM sockets, providing support for up to 3GB of main memory using unbuffered and non-ECC DIMM modules from 64MB to 1GB. 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 100MHz DRAM speed, use PC1600 memory; for 133MHz DRAM speed, use PC2100 memory; for 166MHz DRAM speed, use PC2700 memory.



Memory Configuration Table

Number of Memory Modules	DIMM 1	DIMM 2	DIMM 3
RAM Type	DDR RAM		
Memory Module Size (MB)	128 / 256 / 512 / 1024 MB		

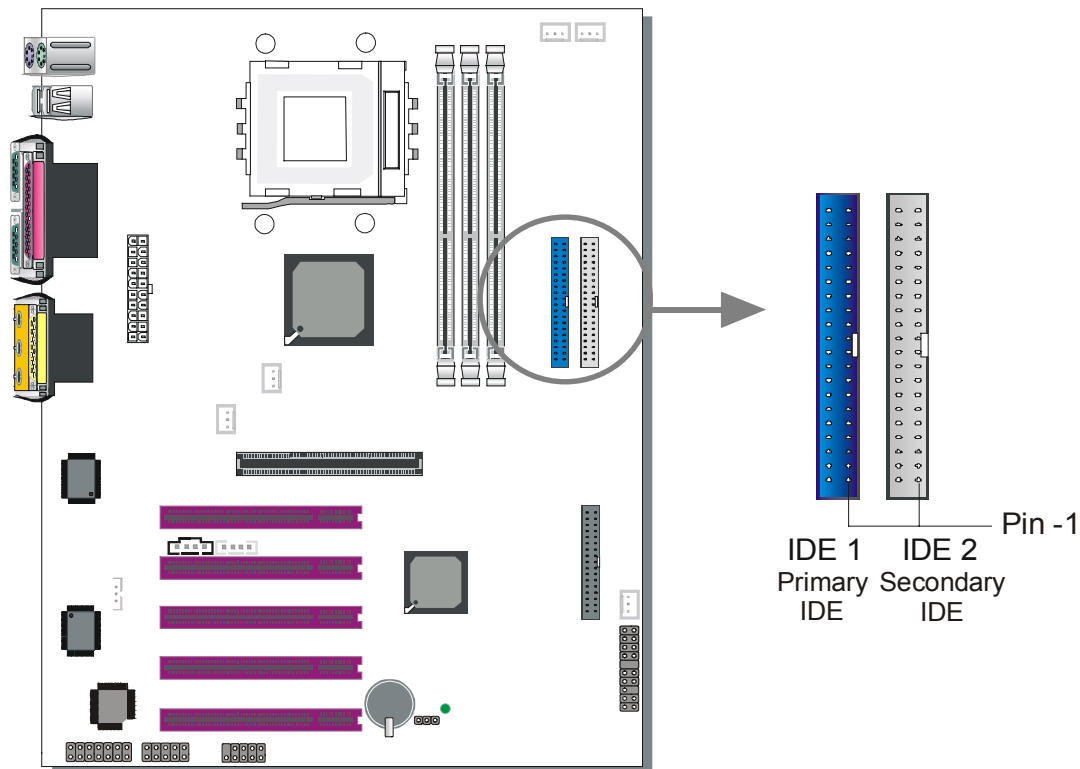
Step 4 Install Expansion Card

The motherboard has 1 AGP slot and 5 PCI 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 5 Connect cables, case wires, and power supply

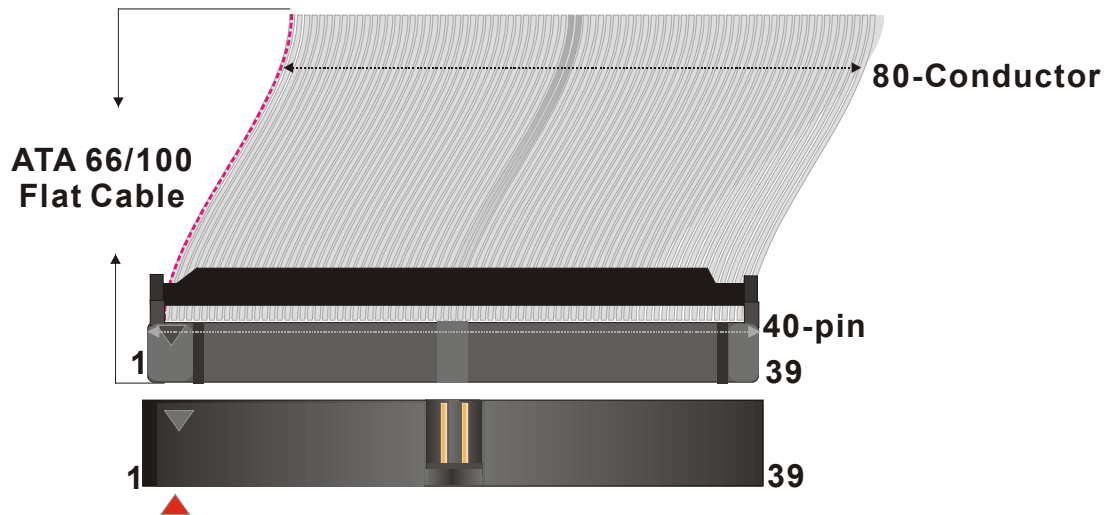
A. IDE Device Installation (HDD, CD-ROM)



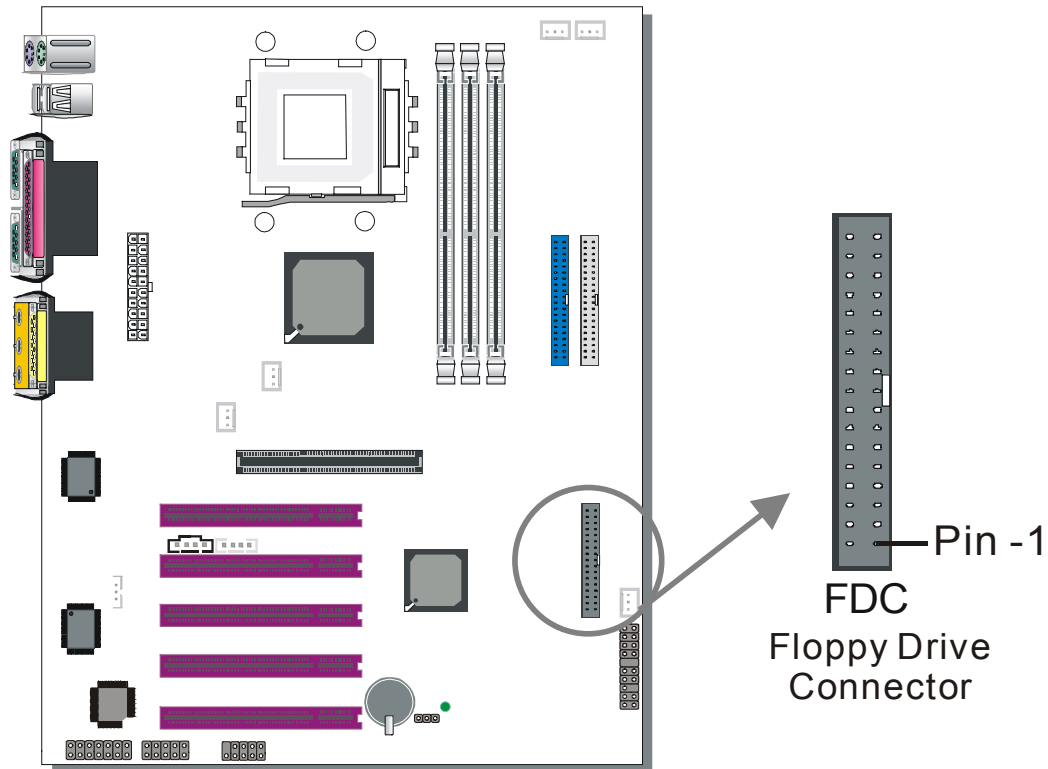
This motherboard offers two primary and two secondary IDE device connectors (IDE1, IDE2), can support up to four high-speed Ultra DMA 33/66/100/133 HDD or CD-ROM.

Connect one side of the ATA 66/100 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 ATA 66/100/133 cable is backward compatible with ATA33 HDDs.

This motherboard can support up to 4 HDDs.



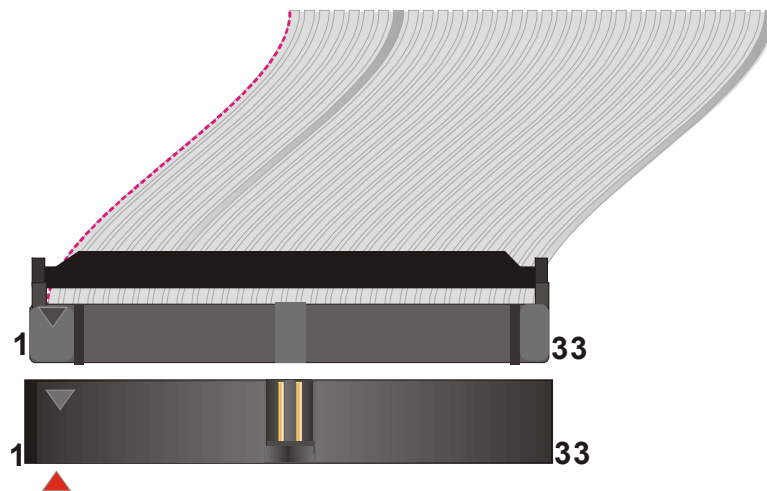
B. Floppy Drive Installation



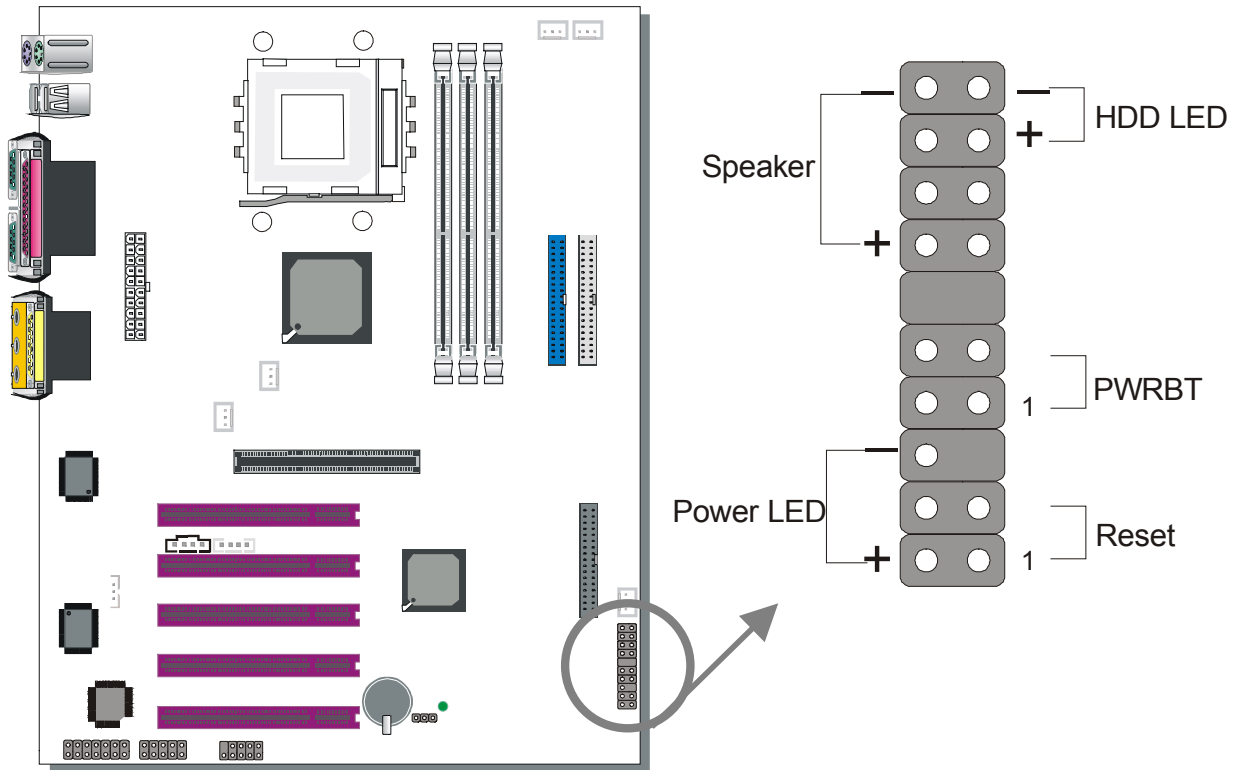
The system supports 5 possible floppy drive types: 720 KB, 1.2 MB, 1.44 MB, 2.88 MB, and LS-120.

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 1 floppy drives.



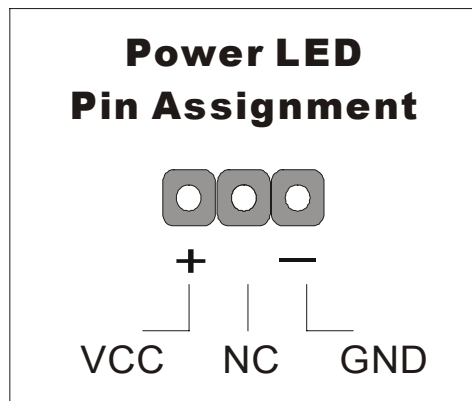
C. Front Panel Connections



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

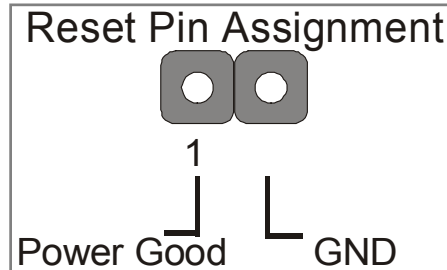
1. Power LED

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



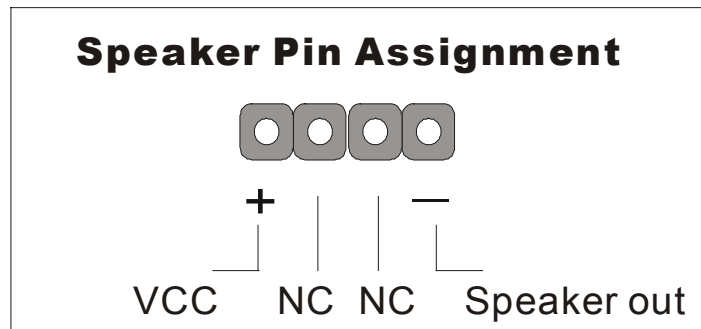
2. Reset

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.



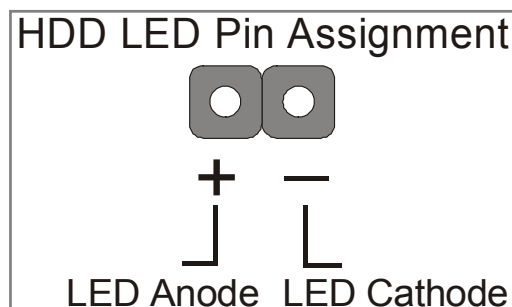
3. Speaker

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



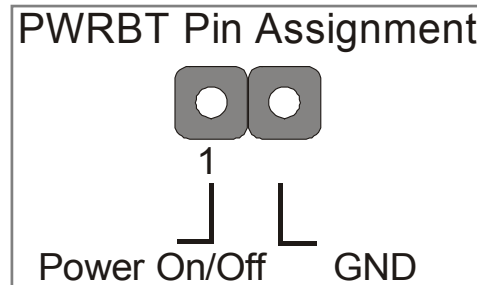
4. IDE LED

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



5. 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.

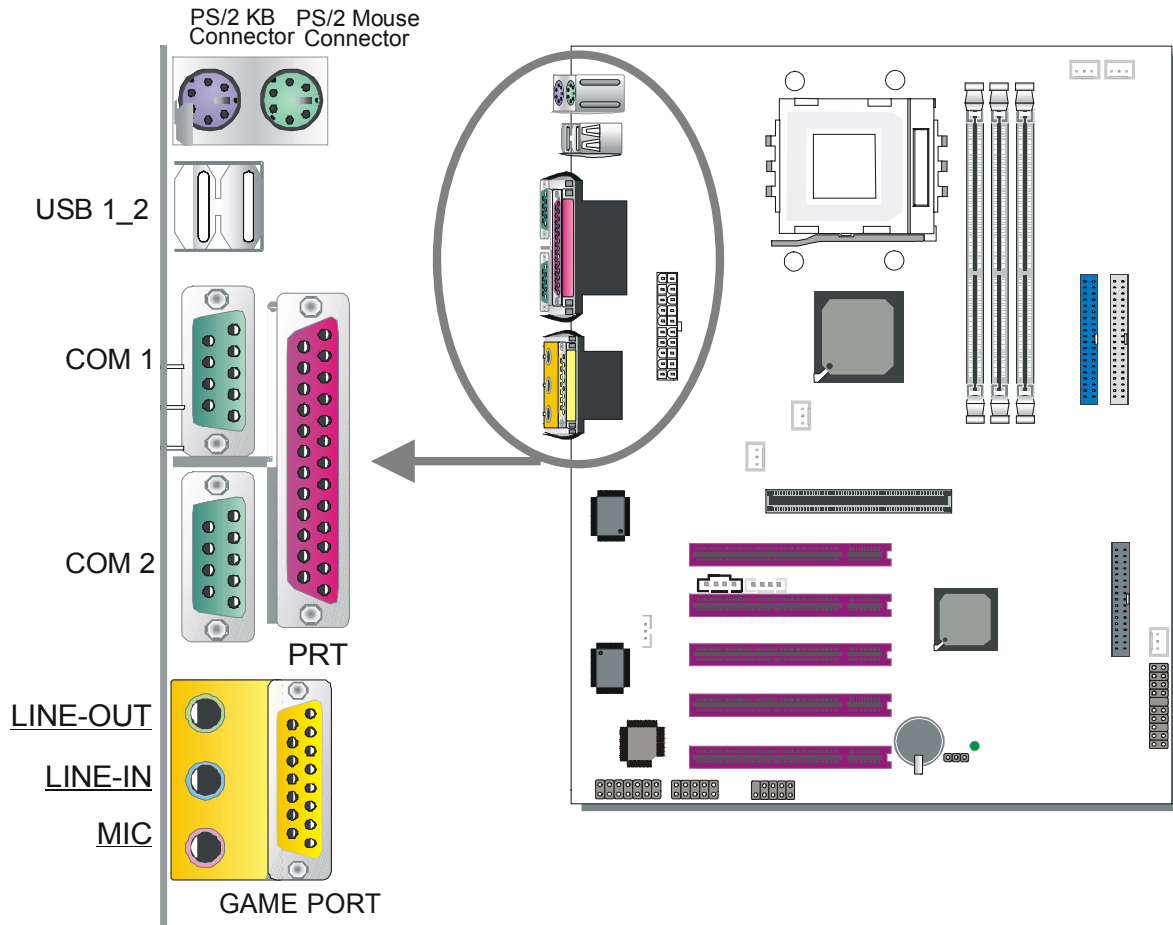


D. Back Panel Connections

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 COM1/COM2

External peripherals that use serial transmission scheme include:

- serial mouse
- modem

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

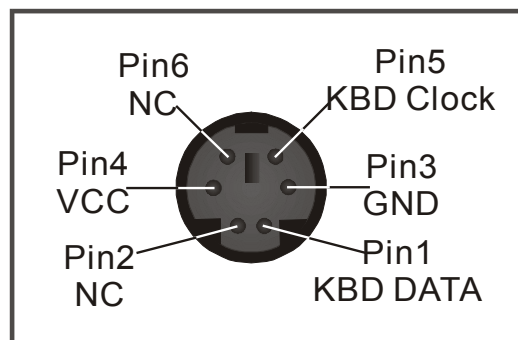
2. Parallel Port PRT

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.

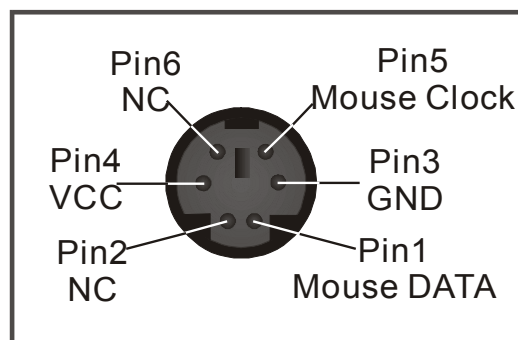
3. PS/2 Keyboard

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.

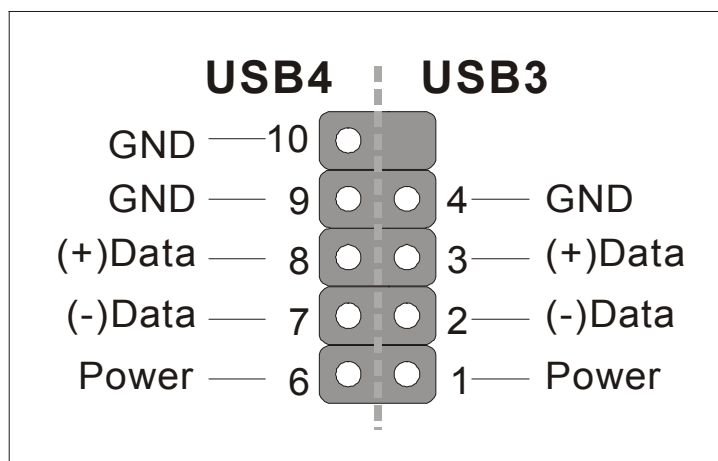


5. Universal Serial Bus (USB1/USB2, USB3/USB4)

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 USB4 are available. To make use of these USB ports, purchase a USB cable from your dealer. The lay-out of USB3 and USB4 are as follows:



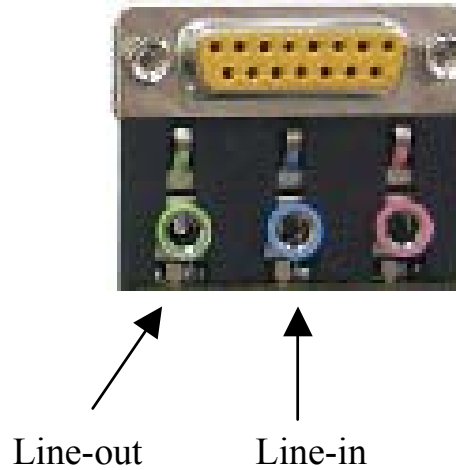
6. Onboard Game port/audio

This motherboard provides Joystick port and audio.

- Attach the joystick cable to the 15-pin GAME port at the rear panel of you motherboard.
- 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.

When using 2 channel speaker, connect the speaker cable to line-out.

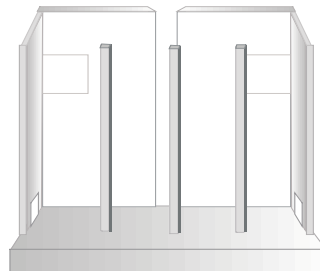
If you're using 4 channel speaker, connect the front L/R speakers to line-out and rear L/R speakers to Line-in. make sure to set the audio software for 4 channel speaker system.



E. Other Connections

1. Wake-On-LAN (WOL)

Attach the 3-pin connector from the LAN card that 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:

Wake-On-LAN JP44 Pin Assignment	
3	MP-Wake-Up
2	GND
1	5VSB

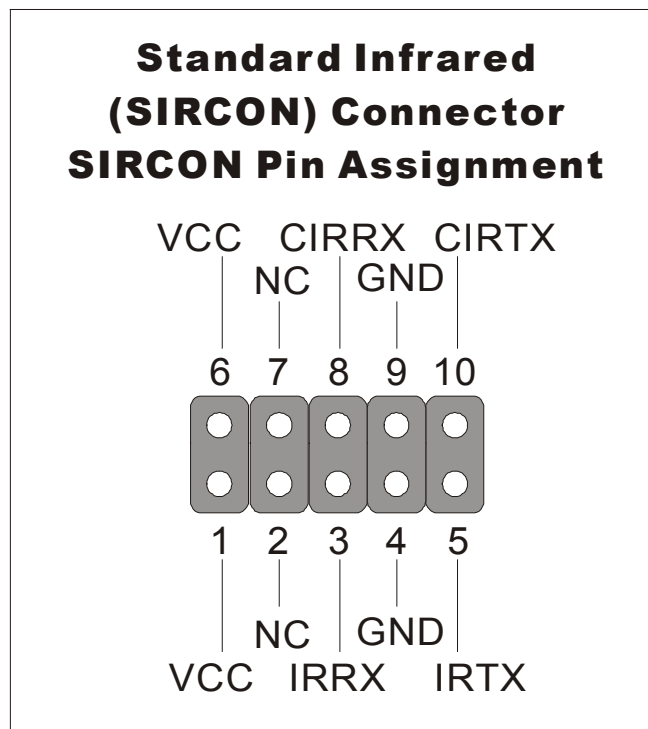
2. Standard Infrared (SIRCON)

Plug the 10-pin infrared device cable to the SIRCON header.

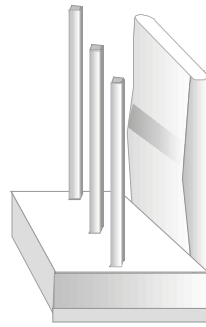


This will enable the infrared transfer function. This motherboard meets both the ASKIR and HPSIR specifications.

Please install according to the following pin assignment:



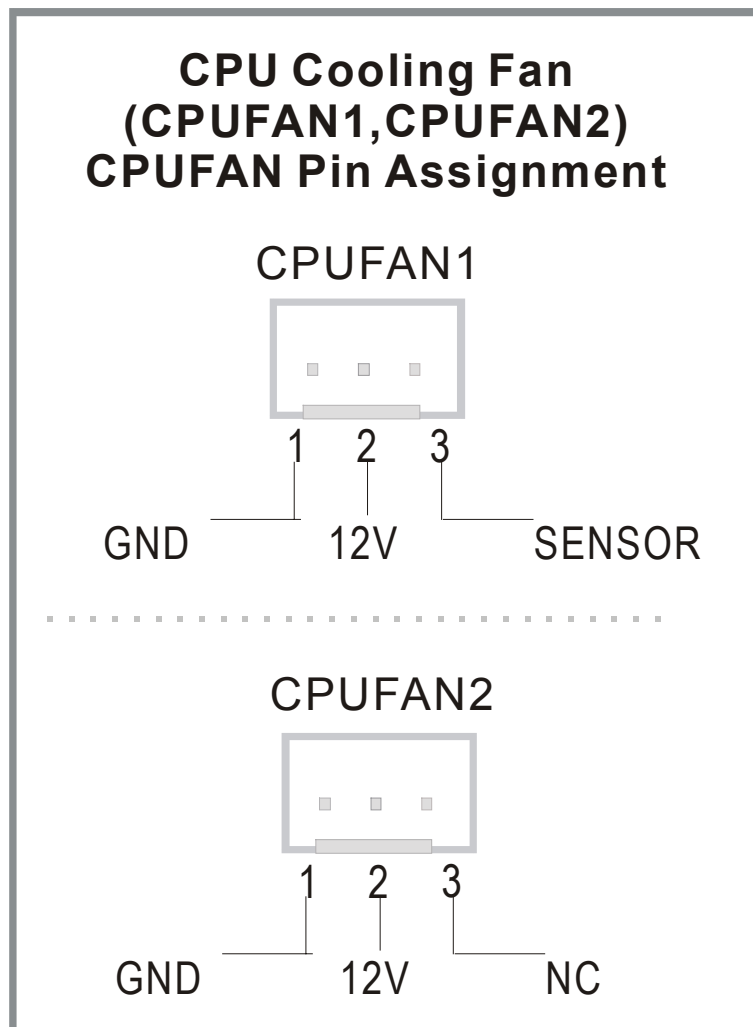
3. Cooling Fan Installation



(1) CPU Cooling Fan (CPUFAN1,CPUFAN2)

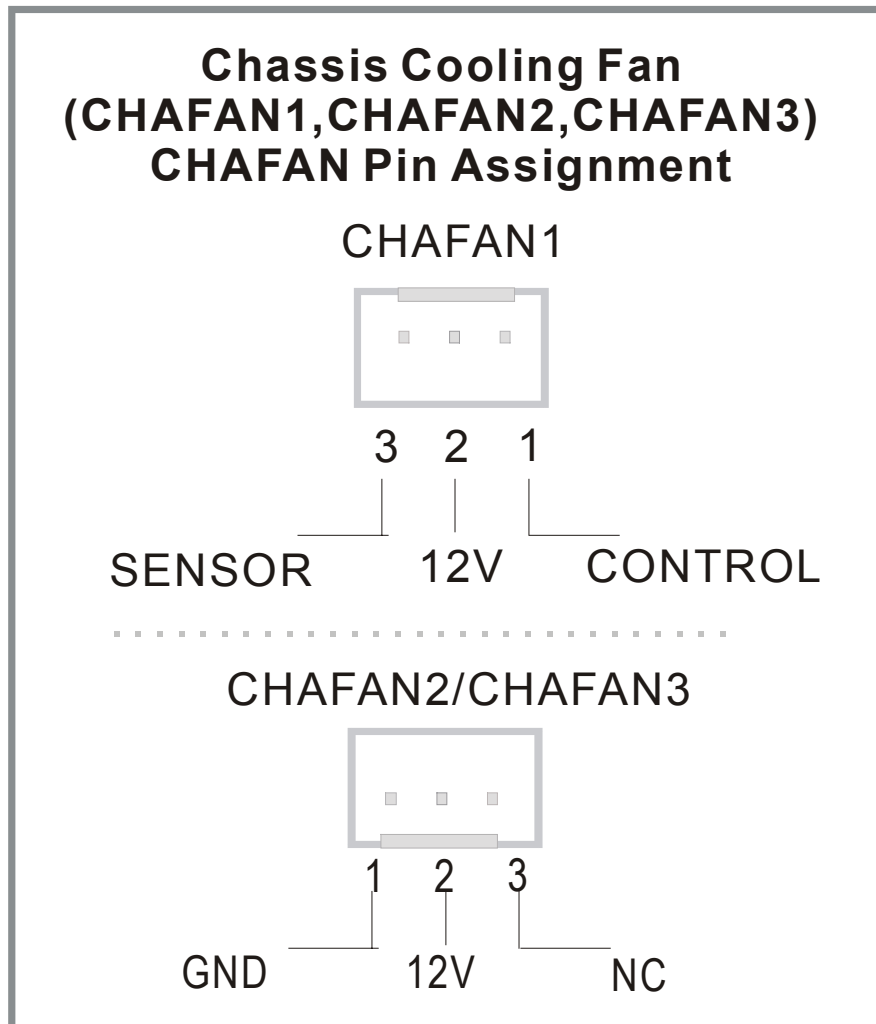
After you have seated the CPU properly on the processor, attach the 3-pin fan cable to the CPUFAN connector on the motherboard. The fan will stop when the system enters into Suspend Mode. (Suspend mode can be enabled from the BIOS Setup Utility, [POWER MANAGEMENT] menu.)

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



(2) Chassis Cooling Fan (CHAFAN1,CHAFAN2,CHAFAN3)

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:

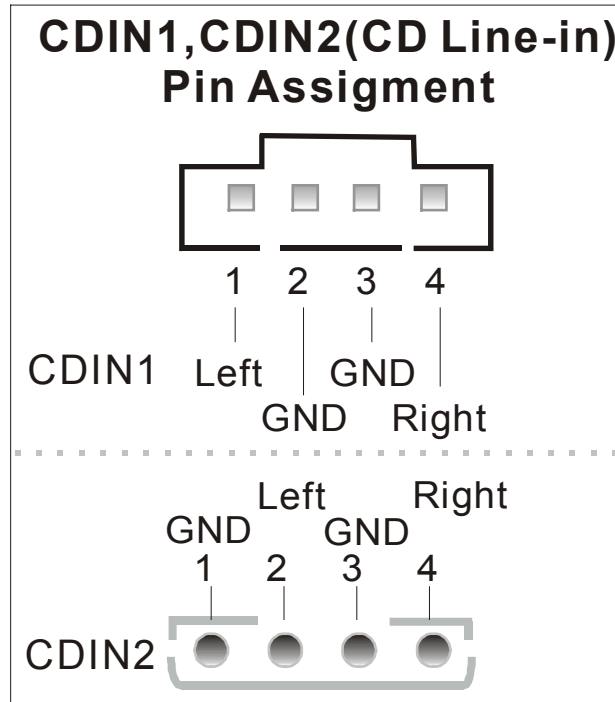


Note: CPUFAN must be installed on this motherboard, while CHAFAN is optional.

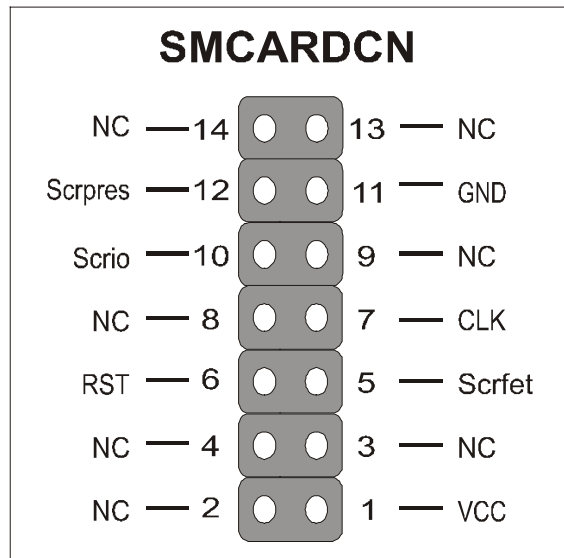
4. CD Line-in (CDIN1,CDIN2)

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:

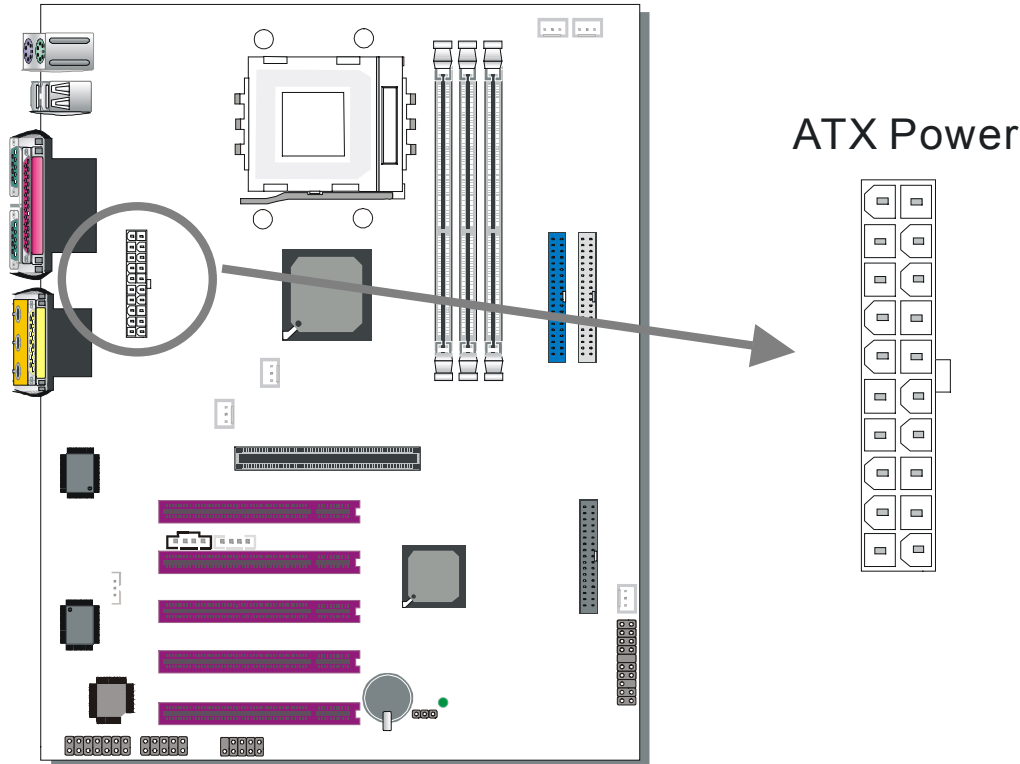


5. Smart Card Reader



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:

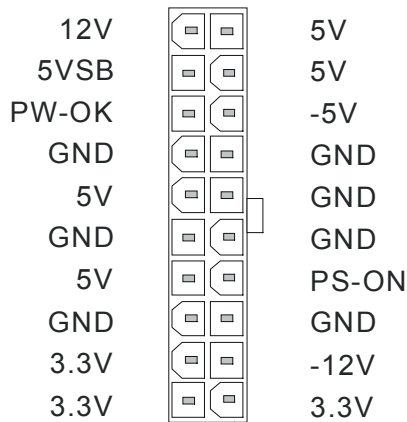
Turn off the power supply and unplug the power cord of the ATX power supply before connecting to ATX PW connector.

The KT333 DRAGON Lite requires a power supply that is approved by AMD. Go to www.amd.com for more info on approved power supply. 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

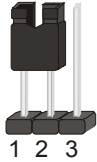
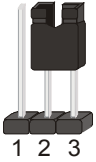


➤ Pay special care to the directionality.

H. CMOS Clear (JP5)

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

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

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

Step 6 Power On

You have now completed the hardware installation of your KT333 DRAGON Lite successfully.

1. Turn the power on.



2. It takes awhile to boot-up to the system. You will hear 3 beeps before seeing a display on the screen.
3. To enter the BIOS Setup Utility, press the 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 key again at the beginning of boot-up, during diagnostic checks.

Repeat this operation until you get the following screen.

4. The BIOS Setup screen appears:

Phoenix – Award BIOS CMOS Setup Utility	
<ul style="list-style-type: none"> ▶ SOYO COMBO Feature ▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Advanced Chipset Features ▶ Integrated Peripherals ▶ Power Management Setup ▶ PnP/PCI Configurations 	<ul style="list-style-type: none"> ▶ PC Health Status Load Optimized Defaults Load Fail - Safe Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving
Esc : Quit	↑↓→← : Select Item
F10 : Save & Exit Setup	
Change CPU's Clock & Voltage	

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 completed, turn the power switch on, then press the key during the system diagnostic checks to enter the Award BIOS Setup program. The CMOS SETUP UTILITY will be shown on the screen. 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] to 100/133MHz, depending on the Front Side Bus of your CPU.

To overclock your CPU’s Front Side Bus, [Frequency 1MHz Stepping] enables you to overclock in 1MHz increment or you can input the desired FSB value of the CPU.

Set the [DRAM Clock] to 100/133/166 MHz or By SPD, depending on the DDR Clock. If you overclock your CPU’s Front Side Bus, it overlocks your DDR Clock as well.

Note: The maximum FSB you can overclock for a 100MHz FSB CPU is 132MHz and 233MHz for 133MHz FSB CPU.

DDRAM clock speed should not be lower than the CPU speed. Ex, if you have a 133MHz FSB CPU, BIOS will not have 100MHz option in the DRAM clock.

SOYO is not responsible for damage done in your CPU or system instability due to overclocking.

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*

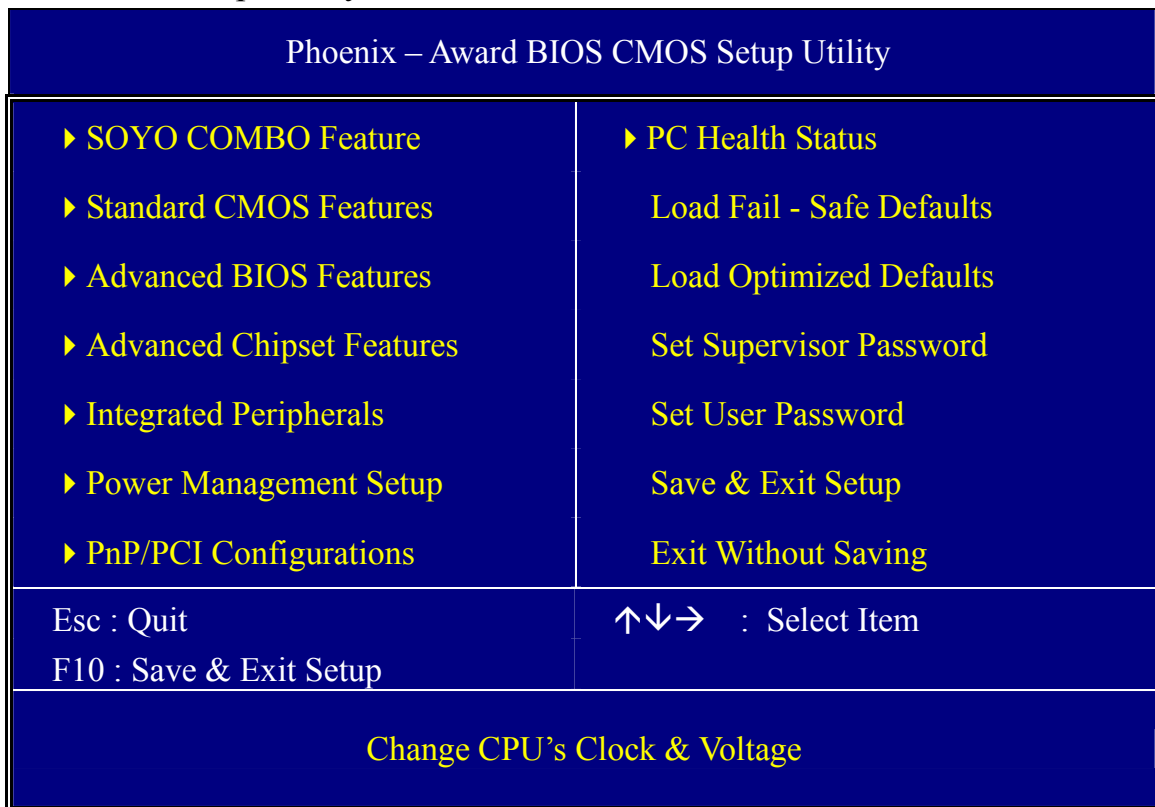
Chapter 3

BIOS SETUP UTILITY

This motherboard's BIOS setup program uses the ROM PCI 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

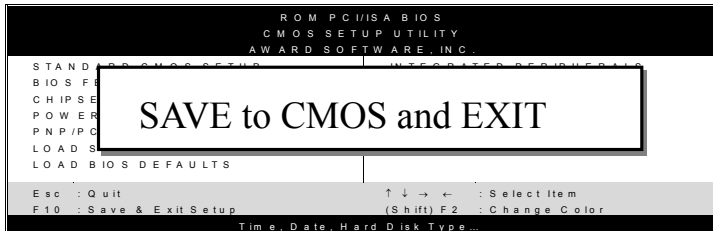
- Use the [Up]/[Down] keys to modify values within the selected fields. Some fields let you enter values directly.

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

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

SAVE AND EXIT SETUP

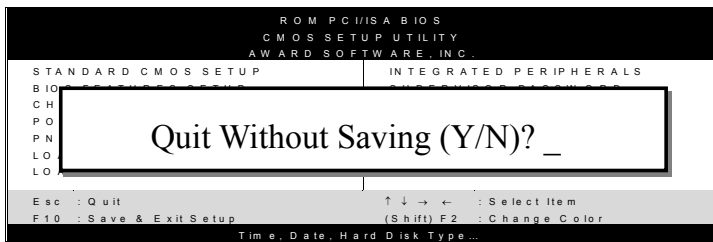
Select the [SAVE & EXIT SETUP] option from the Main Menu to save data to CMOS and exit the setup utility. This option saves all your changes and causes the system to reboot.



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 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.

Phoenix – Award BIOS CMOS Setup Utility		
SOYO COMBO Feature		
System Performance	Normal	Item Help
CPU : DRAM Frequency	100 : SPD+ 0	
CPU Frequency Select	100 MHz	Menu Level ▶
Frequency 1MHz Stepping	100	
DRAM Clock	By SPD	
CPU Ratio Select	Auto	
CPU Voltage Select	Default	
DDR (2.5V) Voltage Select	Default	
AGP (1.5V) Voltage Select	Default	
▶ Advanced Tune-up Settings	Press Enter	
C.I.H. 4-WAY Protection	Enabled	
Onboard 4Ch H/W Audio	Enabled	
Quick Power On Self Test	Enabled	
First Boot Device	Floppy	
Second Boot Device	HDD-0	
Third Boot Device	LS120	
Boot Other Device	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 [SOYO COMBO SETUP] menu combines the main parameters that you need to configure, all in one menu, for a quick setup in BIOS.

System Performance

	Setting	Description	Note
System Performance	Normal	Adjust your computer performance.	Default
	Fast		
	Turbo		

SOYO COMBO Feature

	Setting	Description	Note
CPU Frequency Select	100 MHz	Chose 100MHz/133MHz, depending on the Front Side Bus of your CPU.	Default
	133 MHz		
Frequency 1MHz Stepping	100	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.	
DRAM Clock	100	This item allows you to control the DRAM speed.	
	133		
	By SPD		Default
CPU Ratio Select	Auto	Allows you to select your CPU Ratio.	Default
	6.0 x, 6.5 x,		
	7.0 x, 7.5 x,		
	8.0 x, 8.5x,		
	9.0 x, 9.5 x,		
	10.0 x, 10.5 x,		
	11.0 x, 11.5 x,		
	12.0 x, 13.0 x,		
14.0 x			

CPU Voltage Select

	Setting	Description	Note
CPU Voltage Select	Default	This function allow to adjust the CPU voltage.	Default
	1.100V		1.500V
	1.125V		1.525V
	1.150V		1.550V
	1.175V		1.575V
	1.200V		1.600V
	1.225V		1.625V
	1.250V		1.650V
	1.275V		1.675V
	1.300V		1.700V
	1.325V		1.725V
	1.350V		1.750V
	1.375V		1.775V
	1.400V		1.800V
	1.425V		1.825V
1.450V	1.850V		
1.475V			

DDR Voltage Select

	Setting	Description	Note
DDR Voltage Select	Default	This function allow to adjust the DDR voltage.	Default
	2.6V		
	2.7V		
	2.8V		

AGP Voltage Select

	Setting	Description	Note
AGP Voltage Select	Default	This function allow to adjust the AGP voltage.	Default
	1.6V		
	1.7V		
	1.8V		

C.I.H. 4-WAY Protection Settings

	Setting	Description	Note
C.I.H. 4-WAY Protection	Disabled	When set to enabled, the BIOS can only be programmed through AWDFLASH, making sure that any virus is unable to program the system BIOS. Set to disable the BIOS can be programmed the traditional way.	
	Enabled		Default

Onboard 4Ch H/W Audio

	Setting	Description	Note
Onboard 4Ch H/W Audio	Enabled	Enabled/Disabled Onboard 4Ch H/W Audio.	Default
	Disabled		

Quick Power On Self Test

	Setting	Description	Note
Quick Power On Self Test	Disabled		
	Enabled	Provides a fast POST at boot-up.	Default

System Boot Control Settings

	Setting	Description	Note
First /Second/Third Boot Device	Floppy	Select Your Boot Device Priority	
	LS/ZIP		
	HDD-0		
	SCSI		
	CDROM		
	HDD-1		
	HDD-2		
	HDD-3		
	LAN		
	Disabled		
Boot Other Device	Disabled	Select Your Boot Device Priority	
	Enabled		Default

3-1.1 Advanced Tune-up Settings



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

The [DRAM Clock/Drive Control] option changes the values of the chipset registers. These registers control the system options in the computer.

Phoenix – Award BIOS CMOS Setup Utility		
Advanced Tune-up Settings		
DRAM Timing	By SPD	Item Help Menu Level ▶
x DRAM CAS Latency	2.5	
x Bank Interleave	Disabled	
x Precharge to Active(Trp)	3T	
x Active to Precharge (Tras)	7T	
x Active to CMD (Tred)	3T	
DRAM Queue Depth	4 Level	
DRAM Command Rate	2T Command	
AGP Fast Write	Disabled	

↑↓→: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] and follow the instructions on your screen to save your settings or exit without saving.

DRAM Control

	Setting	Description	Note
DRAM Timing	By SPD	If enable the DRAM will auto detect the DRAM timing.	Default
	Manual		
DRAM CAS Latency	2.5	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
	2		
Bank Interleave	Disabled	Increase DRAM performance.	Default
	2 Bank		
	4 Bank		
Precharge to Active(Trp)	2T	Increase DRAM performance.	
	3T		Default
Active to Precharge(Tras)	6T	Increase DRAM performance.	
	7T		Default
Active to CMD (Trcd)	2T	Increase DRAM performance.	
	3T		Default
DRAM Queue Depth	2 Level	Increase DRAM performance.	
	4 Level		Default
	3 Level		
DRAM Command Rate	2T Command	Increase DRAM performance.	Default
	1T Command		

AGP Fast Write

	Setting	Description	Note
AGP Fast Write	Disabled	The VIA chipset will use fast write to AGP if this item is enabled. Not all AGP cards support fast write.	Default
	Enabled		



3-2 STANDARD CMOS SETUP

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

Phoenix – Award BIOS CMOS Setup Utility					
Standard CMOS Features					
Date (mm:dd:yy)	Mon, Mar 25 2002	Item Help			
Time (hh:mm:ss)	1 : 1 : 8				
▶ IDE Primary Master	Maxtor 52049H3	Menu Level ▶ Change the day, month, year and century.			
▶ IDE Primary Slave	None				
▶ IDE Secondary Master	LTN485S				
▶ IDE Secondary Slave	None				
Drive A	1.44M, 3.5 in.				
Floppy 3 Mode Support	Disabled				
Video	EGA/VGA				
Halt On	All Errors				
Base Memory	640K				
Extended Memory	130048K				
Total Memory	131072K				
↑↓→ 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.

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

Phoenix – Award BIOS CMOS Setup Utility		
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.

Date & Time

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

Hard Disks Type & Mode

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

	Setting	Description	Note
IDE HDD Auto-Detection	Press Enter	To auto-detect the HDD's size, head... on this channel	
IDE Primary Slave (User Type)	Auto	BIOS detects hard disk type automatically.	Default
	Manual	User defines the type of hard disk.	
	None		
Access Mode	Auto	BIOS detects hard disk mode automatically.	Default
	CHS	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.

Floppy Drives

	Setting	Description	Note
Drives A	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
Floppy 3-Mode Support	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

Others Optional

	Setting	Description	Note
Video	EGA/VGA	Select the video mode.	Default
	CGA 40		
	CGA 80		
	MONO (Monochrome)		
Halt On	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.

Phoenix – Award BIOS CMOS Setup Utility		
Advanced BIOS Features		
Virus Warning	Disabled	Item Help Menu Level ▶ 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 Internal Cache	Enabled	
External Cache	Enabled	
CPU L2 Cache ECC Checking	Enabled	
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	
Video BIOS Shadow	Enabled	
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.

Virus Warning

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

Cache Memory Options

	Setting	Description	Note
CPU Internal Cache	Disabled		
	Enabled	Enables the CPU's internal cache.	Default
External Cache	Disabled		
	Enabled	Enables the external memory.	Default
CPU L2 Cache ECC Checking	Disabled	Disabled/Enabled L2	
	Enabled	cache error checking.	Default

Boot Up Floppy Seek

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

Boot Up NumLock Status

	Setting	Description	Note
Boot Up NumLock Status	On	Puts numeric keypad in NumLock mode at boot-up.	Default
	Off	Puts numeric keypad in arrow key mode at boot-up.	

Gate A20 Options

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



Typematic Settings

	Setting	Description	Note
Typematic Rate Setting	Disabled	Keystrokes repeat at a rate determined by the keyboard.	Default
	Enabled	When enabled, 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]			
Typematic Rate	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)		
Typematic Delay	250 (msec)	Choose how long after you press a key down the character begins repeating.	Default
	500 (msec)		
	750 (msec)		
	1000 (msec)		

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
Security Option	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

Other Control Options

	Setting	Description	Note
OS Select for DRAM>64MB	OS2	When using an OS2 operating system.	
	Non-OS2	When using another, non-OS2 operating system.	Default
HDD S.M.A.R.T Capability	Disabled	Enable this field when your HDD supports the S.M.A.R.T. function. Consult your HDD provider for details.	Default
	Enabled		
Video BIOS Shadow	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		
EPA LOGO SELECT	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		
Small Logo(EPA) Show	Disabled	Set Enabled to Show Logo(EPA).	
	Enabled		Default

3-4 ADVANCED CHIPSET FEATURES

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



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

The [Advanced Chipset Features] option changes the values of the chipset registers. These registers control the system options in the computer.

Phoenix – Award BIOS CMOS Setup Utility
 Advanced Chipset Features

▶ AGP & P2P Bridge Control ▶ CPU & PCI Bus Control System BIOS Cacheable Video RAM Cacheable Auto Detect DIMM/PCI Clk Spread Spectrum	Press Enter Press Enter Disabled Disabled Disabled Disabled	Item Help <hr/> Menu Level ▶
--	--	---------------------------------

↑↓→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] 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.

CHIPSET FEATURES SETUP

	Setting	Description	Note
System BIOS Cacheable	Disabled		Default
	Enabled	The ROM area F0000H-FFFFFFH is cacheable.	
Video RAM Cacheable	Disabled		Default
	Enabled	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	

CHIPSET FEATURES SETUP (Continue)

	Setting	Description	Note
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 Disabled / Enabled the spread spectrum modulate.	Default
	Enabled		

3-4.1 AGP & P2P Bridge Control



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

The [AGP & P2P Bridge Control] option changes the values of the chipset registers. These registers control the system options in the computer.

Phoenix – Award BIOS CMOS Setup Utility
 AGP & P2P Bridge Control

AGP Aperture Size	64M	Item Help Menu Level ▶
AGP Mode	4X	
AGP Driving Control	Auto	
x AGP Driving Value	DA	
AGP Master 1 WS Write	Disabled	
AGP Master 1 WS Read	Disabled	

↑↓→: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] and follow the instructions on your screen to save your settings or exit without saving.

AGP & P2P Bridge Control

	Setting	Description	Note
AGP Aperture Size	64M	Select the size of Accelerated Graphics Port (AGP) aperture. The aperture is a portion of the PCI memory address range	Default
	32M		
	128M		
	256M		
AGP Mode	1X	This item allows you to enable / disable the AGP-4X Mode.	
	2X		
	4X		Default

AGP & P2P Bridge Control (Continue)

	Setting	Description	Note
AGP Driving Control	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		
AGP Driving Value	Min=0000 ~ Max=00FF	This item allows you to adjust the AGP driving force.	
AGP Master 1 WS Write	Disabled	When <i>Enabled</i> , writes to the AGP(Accelerated Graphics Port) are executed with one wait states.	Default
	Enabled		
AGP Master 1 WS Read	Disabled	When <i>Enabled</i> , read to the AGP (Accelerated Graphics Port) are executed with one wait states.	Default
	Enabled		

3-4.2 CPU & PCI Bus Control



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

The [CPU & PCI Bus Control] option changes the values of the chipset registers. These registers control the system options in the computer.

Phoenix – Award BIOS CMOS Setup Utility		
CPU & PCI Bus Control		
PCI1 Master 0 WS Write	Enabled	Item Help Menu Level ▶
PCI2 Master 0 WS Write	Enabled	
PCI1 Post Write	Enabled	
PCI2 Post Write	Enabled	
PCI Delay Transaction	Disabled	
↑↓→: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] and follow the instructions on your screen to save your settings or exit without saving.

CPU & PCI Bus Control

	Setting	Description	Note
PCI1/2 Master 0 WS Write	Disabled		
	Enabled	When <i>Enabled</i> , writes to the PCI bus are executed with zero wait states.	Default
PCI1/2 Post Write	Disabled	This item allows you to enabled/disabled the PCI post write.	Default
	Enabled		
PCI Delay Transaction	Disabled	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
	Enabled		

3-5 INTEGRATED PERIPHERALS

Select the [Integrated Peripherals] option from the Main Menu and press [Enter] key.



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.

Phoenix – Award BIOS CMOS Setup Utility					
Integrated Peripherals					
▶ VIA OnChip IDE Device	Press Enter	Item Help			
▶ SuperIO Device	Press Enter				
Init Display First	AGP	Menu Level ▶			
OnChip USB Controller	Enabled				
USB Keyboard Support	Disabled				
IDE HDD Block Mode	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] and follow the instructions on your screen to save your settings or exit without saving.

INTEGRATED PERIPHERALS

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

INTEGRATED PERIPHERALS (Continue)

	Setting	Description	Note
OnChip USB Controller	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		
USB Keyboard Support	Disabled	Select <i>Enabled</i> if your system contains a Universal Serial Bus (USB) controller and you have a USB keyboard.	Default
	Enabled		
IDE HDD Block Mode	Disabled	Invokes multi-sector transfer instead of one sector per transfer. Not all HDDs support this function.	Default
	Enabled		

3-5.1 VIA OnChip IDE Device



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

The [VIA OnChip IDE Device] option changes the values of the chipset registers. These registers control the system options in the computer.

The following screen shows setup default settings.

Phoenix – Award BIOS CMOS Setup Utility			Item Help
VIA OnChip IDE Device			Menu Level ▶
OnChip IDE Channel0		Enabled	
OnChip IDE Channel1		Enabled	
IDE Prefetch Mode		Enabled	
Primary Master	PIO	Auto	
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	

↑↓→: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] and follow the instructions on your screen to save your settings or exit without saving.

VIA OnChip IDE Device

	Setting	Description	Note
On-Chip IDE Channel 0 /IDE Channel 1 ➤ Primary ➤ Secondary	Disabled	Turn off the on-board IDE	
	Enabled	Use the on-board IDE	Default
IDE ➤ 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
IDE ➤ Primary Master UDMA ➤ Primary Slave UDMA ➤ Secondary Master UDMA ➤ Secondary Slave UDMA	Disabled		
	Auto	Select Auto to enable Ultra DMA Mode support.	Default

3-5.2 SuperIO Device



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

The [SuperIO Device] option changes the values of the chipset registers. These registers control the system options in the computer. The following screen shows setup default settings.

Phoenix – Award BIOS CMOS Setup Utility
SuperIO Device

Onboard FDC Controller	Enabled	Item Help Menu Level ▶
Onboard Serial Port 1	3F8/IRQ4	
Onboard Serial Port 2	2F8/IRQ3	
UART Mode Select	Normal	
x UR2 Duplex Mode	Half	
Onboard Parallel Port	378/IRQ7	
Parallel Port Mode	SPP	
x ECP Mode Use DMA	3	

↑↓→: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] and follow the instructions on your screen to save your settings or exit without saving.

SuperIO Device

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

SuperIO Device (Continue)

	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 Mode	IrDA	The second serial port offers these InfraRed interface modes.	
	ASKIR		
	Normal		Default
	SCR	SCR mean Smart Card Reader.	
If [UART Mode Select] is set to [IrDA]/[ASKIR]			
UR2 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		
Onboard Parallel Port	Disabled	Choose the printer I/O address.	
	378/IRQ7		Default
	278/IRQ5		
	3BC/IRQ7		
Parallel Port Mode	SPP	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] or [ECP+EPP] mode			
ECP Mode use DMA	3	Choose DMA3	Default
	1	Choose DMA1	

3-6 POWER MANAGEMENT SETUP

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

Phoenix – Award BIOS CMOS Setup Utility
Power Management Setup

		Item Help
▶ ACPI Suspend Type	S1 (POS)	Menu Level ▶
Power Management Option	User Define	
HDD Power Down	Disable	
Suspend Mode	Disable	
Video Off Option	Suspend -> Off	
Video Off Method	V/H SYNC+Blank	
MODEM Use IRQ	3	
Soft-Off by PWRBTN	Instant-Off	
State After Power Failure	Off	
▶ IRQ/Event Activity Detect	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

Phoenix – Award BIOS CMOS Setup Utility
IRQ/Event Activity Detect

		Item Help
PS2KB Wakeup Select	Hot key	Menu Level ▶
PS2KB Wakeup from S3-S5	Disabled	
VGA	OFF	
LPT & COM	LPT/COM	
HDD & FDD	ON	
PCI Master	OFF	
PowerOn by PCI Card	Disabled	
Wake Up On LAN/Ring	Disabled	
RTC Alarm Resume	Disabled	
x Date (of Month)	0	
x Resume Time (hh:mm:ss)	0 : 0 : 0	
▶ 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.

Power Management Controls

	Setting	Description	Note
ACPI Suspend Type	S1(POS)	The system will enter the S1 state during suspend. (Low latency wake up)	Default
	S3(STR)		
	S1&S3		
Power Management Option	User Define	Lets you define the system power down times.	Default
	Min Saving		15 Min
	Max Saving		1 Min
HDD Power Down	Disabled	Lets you define the system power down times.	Default
	1Min, 2Min, 3Min, 4Min, 5Min, 6Min, 7Min, 8Min, 9Min, 10Min, 11Min, 12Min, 13Min, 14Min, 15Min		
Suspend Mode	Disabled	Lets you define the system power down times.	Default
	1Min, 2Min, 4Min, 6Min, 8Min, 10Min, 20Min, 30Min, 40Min, 1Hour		
Video Off Option	Suspend -->Off	When enabled, this feature allows the VGA adapter to operate in a power saving mode.	Default
	Always On		
Video Off Method	V/H Sync+Blank	Selects the method by which the monitor is blanked.	Default
	Blank screen		
	DPMS Support		
MODEM Use IRQ	3	Assigns an IRQ# to the modem device.	Default
	3-11, NA		

Power Management Controls (Continue)

	Setting	Description	Note
Soft-Off by PWR-BTTN	Instant-off		Default
	Delay 4 Sec.	Turns off the system power 4 seconds after pushing the power button.	
State After Power Failure	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)	
IRQ/Event Activity Detect	Press Enter	Select items that will wake up your system when in one of sleep modes. Press enter to go the select item page.	

IRQ/Event Activity Detect

	Setting	Description	Note
PS2KB Wakeup Select	Hot key	You can boot-up your system by PS/2 K/B VIA hotkey or password.	Default
	Password		
PS2KB Wakeup from S3-S5	Disabled	You can set the following hotkey : 1. Disable 2. Choose CTRL+F1 up to F12 3. The power key in the K/B. (if available) 4. The wake-up key in the K/B. (if available) 5. Any key in the K/B.	Default
	Ctrl+F1~F12		
	Power		
	Wake		
	Any Key		

IRQ/Event Activity Detect (Continue)

	Setting	Description	Note
LPT & COM	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		
HDD & FDD	OFF	When <i>On of</i> HDD & FDD, any activity from one of the listed system peripheral devices wakes up the system.	
	ON		Default
PCI Master	OFF	When <i>On of</i> PCI Master, any activity from one of the listed system peripheral devices wakes up the system	Default
	ON		
PowerOn by PCI Card	Disabled	If enabled any PCI interrupt will wake up the system.	Default
	Enabled		
Wake Up On LAN/Ring	Disabled	An input signal on the serial Ring Indicator (RI) line (in other words, an incoming call on the modem/LAN) awakens the system from a soft off state.	Default
	Enabled		
RTC Alarm Resume	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.	

3-6.1 IRQs Activity Monitoring

This option sets the IRQs Activity Monitoring.

Phoenix – Award BIOS CMOS Setup Utility		
IRQs Activity Monitoring		
Primary INTR	ON	Item Help Menu Level ▶
IRQ3 (COM 2)	Enabled	
IRQ4 (COM 1)	Enabled	
IRQ5 (LPT 2)	Enabled	
IRQ6 (Floppy Disk)	Enabled	
IRQ7 (LPT 1)	Enabled	
IRQ8 (RTC Alarm)	Disabled	
IRQ9 (IRQ2 Redir)	Disabled	
IRQ10 (Reserved)	Disabled	
IRQ11 (Reserved)	Disabled	
IRQ12 (PS/2 Mouse)	Enabled	
IRQ13 (Coprocessor)	Enabled	
IRQ14 (Hard Disk)	Enabled	
IRQ15 (Reserved)	Disabled	

↑↓→ 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] and follow the instructions on your screen to save your settings or exit without saving.

IRQs Activity Monitoring

	Setting	Description	Note
Primary INTR	ON	When set to <i>On</i> , any event occurring at will awaken a system which has been powered down.	Default
	OFF		
IRQs Activity Monitoring (Press Enter)	Enabled	IRQ3(COM2), IRQ4(COM1), IRQ5(LPT2), IRQ6(Floppy Disk), IRQ7(LPT1), IRQ12(PS/2 mouse), IRQ13(Coprocessor), IRQ14(HardDisk)	
	Disabled	IRQ8 (RTC Alarm), IRQ9(IRQ2 Redir), IRQ10(Reserved), IRQ11(Reserved), IRQ15 (Reserved)	



3-7 PNP/PCI CONFIGURATIONS

This option sets the motherboard's PCI Slots.

Phoenix – Award BIOS CMOS Setup Utility PNP/PCI Configurations					
PNP OS Installed	NO	Item Help Menu Level ▶ Select Yes if you are using a Plug and Play capable operating system Select No if you need the BIOS to configure non-boot devices.			
Reset Configuration Data	Disabled				
Resources Controlled By x IRQ Resources	Auto (ESCD) Press Enter				
PCI/VGA Palette Snoop	Disabled				
Assign IRQ For VGA	Enabled				
Assign IRQ For USB	Enabled				
↑↓→ 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.



PNP/PCI Configuration Controls

PNP/PCI Controls	Setting	Description	Note
PnP OS Installed	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])
Reset Configuration Data	Disabled	Retain PnP configuration data in BIOS.	Default
	Enabled	Reset PnP configuration data in BIOS.	
Resources Controlled By	Manual	BIOS does not manage PCI/ISA PnP card IRQ assignment. Requires to assign IRQ-# 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]			
IRQ Resource (Press Enter)	PCI Device	Choose IRQ-# assigned to PCI/ISA PnP card.	IRQ-3,4,5,7,9,10,11,12,14,15
	Reserved	Choose IRQ-# assigned to Legacy ISA card.	IRQ-3,4,5,7,9,10,11,12,14,15
<p>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:</p> <ol style="list-style-type: none"> 1. IRQs 0, 1, 2, 6, 8, 13 can NOT be assigned, because they are fixed. 2. IRQs 5, 9, 10, 11 are available 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: 			

PNP/PCI Configuration Setup (Continue)

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: PCI / ISA PnP	On-Chip Secondary PCI IDE: disabled	
IRQ 14	IRQ 14: PCI / ISA PnP	On-Chip Primary PCI IDE: disabled	
IRQ 12	IRQ 12: PCI / ISA PnP	<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: PCI / ISA PnP	Onboard parallel port: disabled	
IRQ 4	IRQ 4: PCI / ISA PnP	Onboard Serial port 1: disabled	
IRQ 3	IRQ 3: PCI / ISA PnP	Onboard Serial port 2: disabled	
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.			
Assign IRQ For VGA/USB	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.			

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.

Phoenix – Award BIOS CMOS Setup Utility
PC Health Status

FOC (Fan-Off Control)	Enabled	Item Help
Vcore	1.75 V	Menu Level ▶
3.3 V	3.32 V	
5 V	4.94 V	
12 V	12.16 V	
DDR Voltage	2.5V	
AGP Voltage	1.5V	
CHA Temperature	30 °C	
CPU Temperature	41 °C	
CPUFAN Speed	4440 RPM	
CHAFAN Speed	0 RPM	

↑↓→ 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.

CPU Device Monitoring

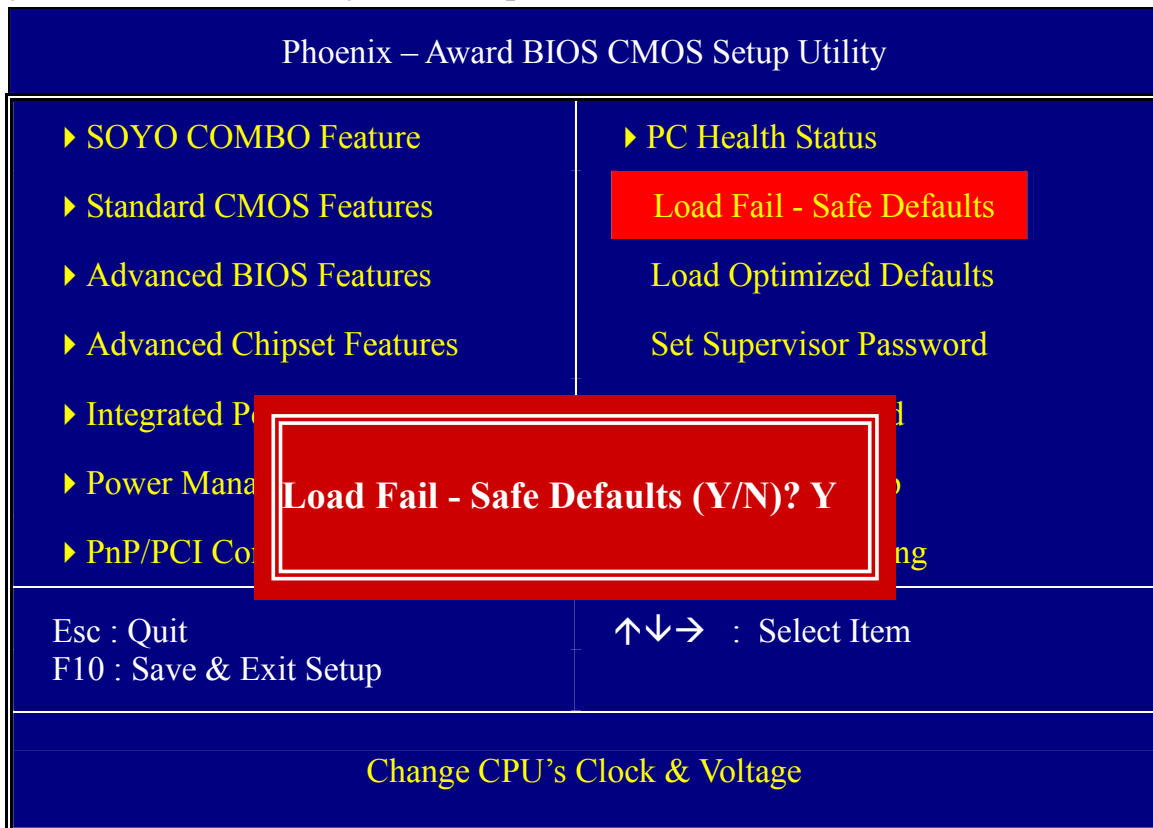
	Setting	Description	Note
FOC (Fan-Off Control)	Disabled	If enable, this function protect user's CPU from overheating in an event there's a problem with the CPU FAN. The user should also plug the CPU FAN power on the CPU FAN1 pin. If not, system will auto shutdown.	Default
	Enabled		
Vcore 3.3V, 5V, 12V	V	Show the current voltage status.	

**CPU Device Monitoring (Continue)**

	Setting	Description	Note
CHA Temperature	°C/°F	Show the current status of the System temperature.	
CPU Temperature	°C/°F	Show the current status of CPU temperature.	
Current CPUFAN/ CHAFAN Speed	RPM	Show the current status of CPU/CHA Fan.	

3-9 LOAD FAIL-SAFE DEFAULTS

Select the [Load Fail-Safe Defaults] option from the Main Menu to load the system values you have previously saved. This option is recommended if you need to reset the system setup and to retrieve the old values.



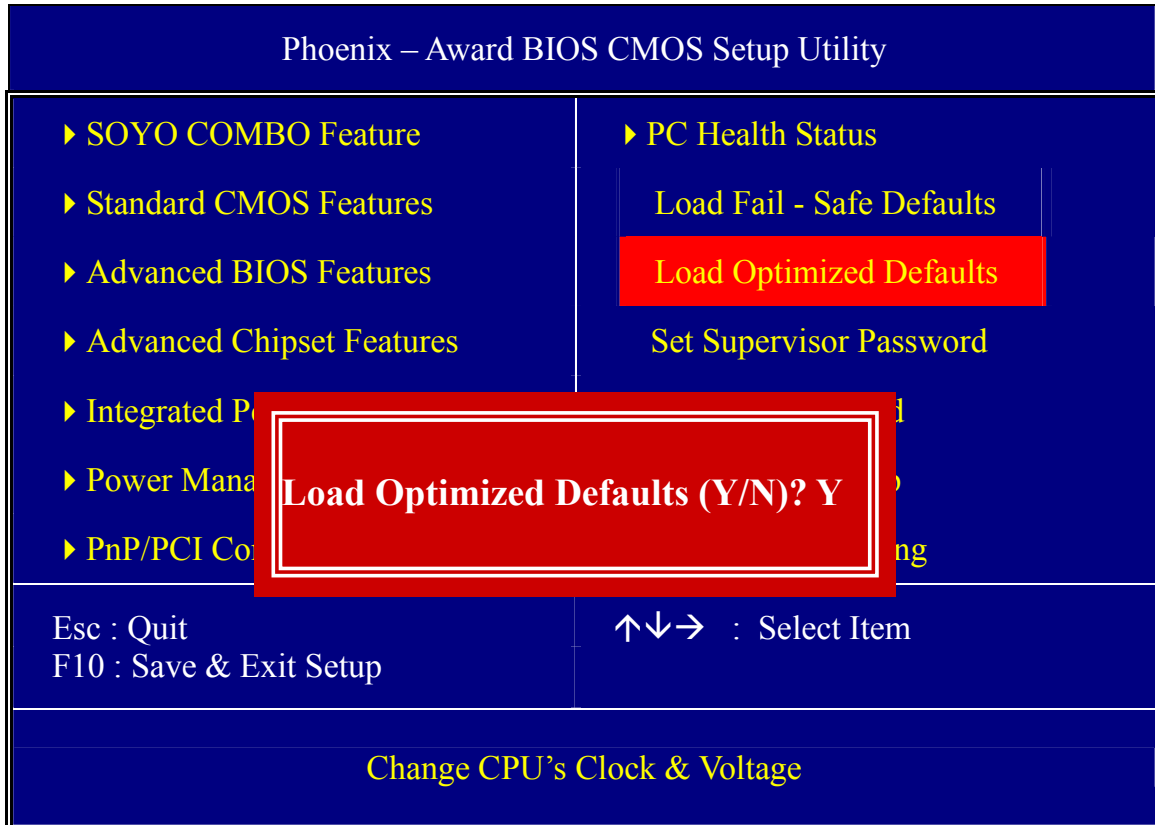
Type [Y] to use the Setup Defaults followed by [Enter] or otherwise [N] to return to the Main Menu and keep current values.



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

3-10 LOAD OPTIMIZED DEFAULTS

Select the [Load Optimized Defaults] option from the Main Menu to load the system values you have previously saved. This option is recommended if you need to reset the system setup and to retrieve the old values.



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 optimized Defaults for stable performance.

3-11 SET 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:

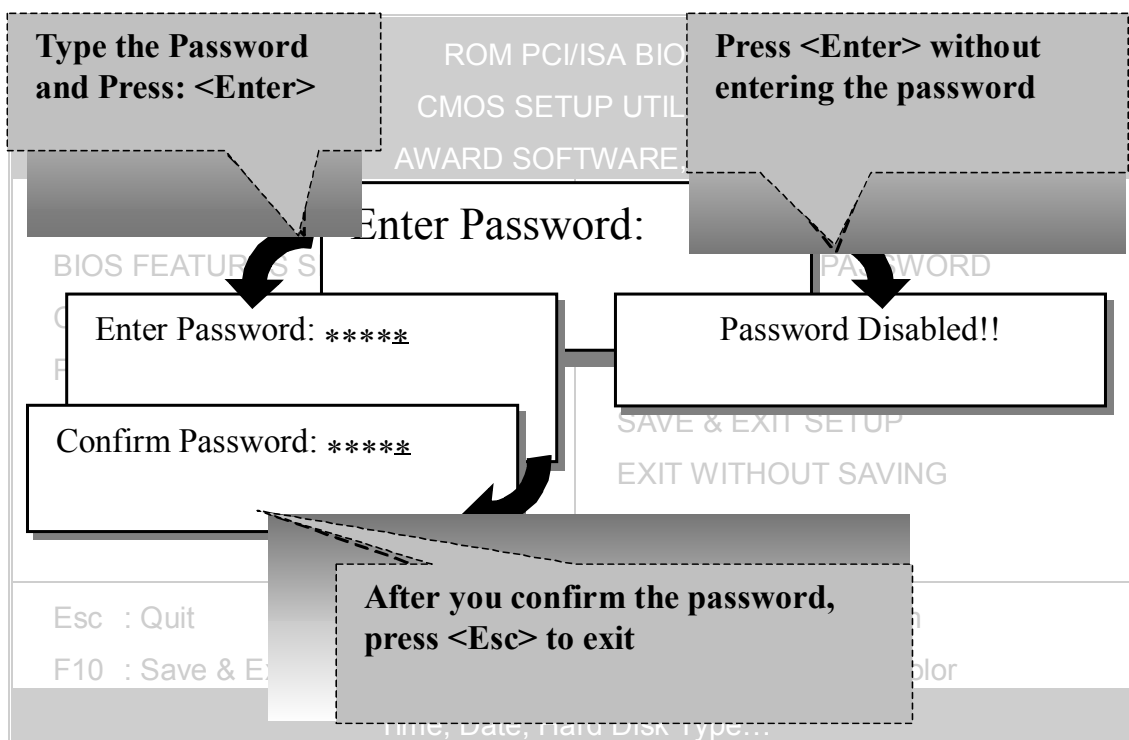
Password Disabled!!

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:



3-12 SET USER PASSWORD

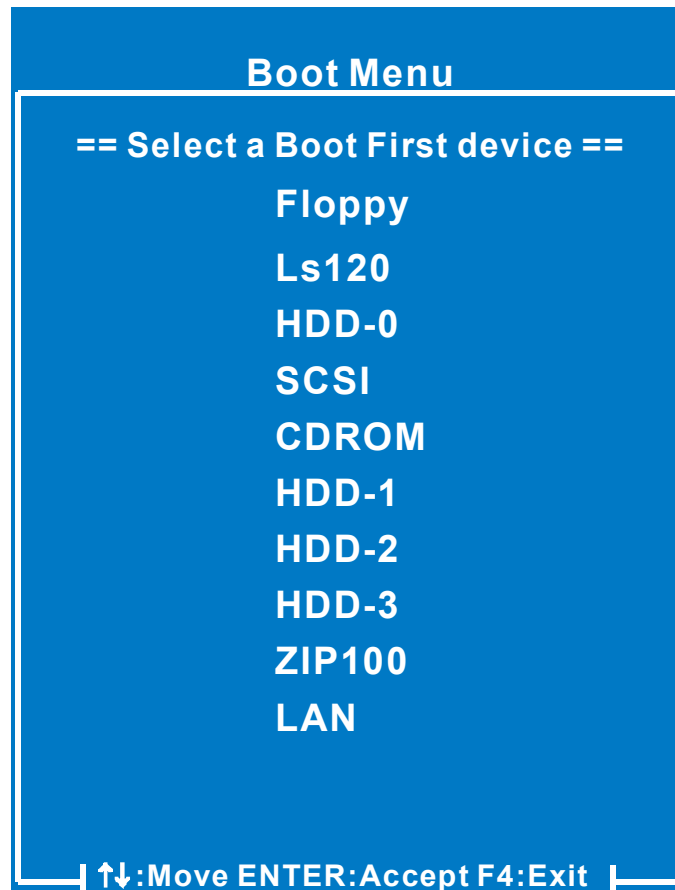
When the user password option is on, you are not allowed to change any setting in the [CMOS SETUP UTILITY] except for changing the user's password.

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

Boot Menu

Boot Menu enables user to boot-up on different boot device without going into the BIOS setup.

To enable boot Menu, press “ESC” after memory initialization, user will see a device menu, in which user can choose the device they wish to boot from.



Chapter 4

DRIVERS INSTALLATION



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

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

- a. The user's manual for your new motherboard -in PDF format,
- b. The drivers software available for installation, and
- c. 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.

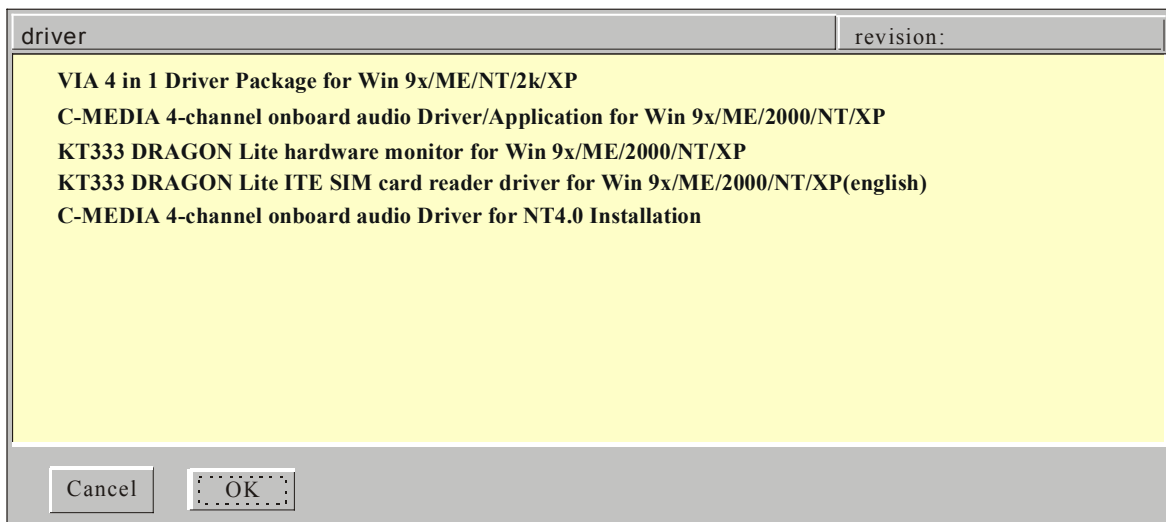
Step 2. Install Drivers and Utilities

The following drivers need to be installed in order for the system to operate properly

1. VIA 4 in 1 driver.
2. C-Media 8738 audio driver. – Only required if you are using the onboard audio.

The rest of the available drivers are optional.

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 follows:

—**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.

➤ **C-MEDIA 4-channel Onboard Audio Driver/Application for Win 9x/ME/2000/NT/XP**

1. The driver supports 2/4/6 speakers 3D positional audio.
2. The application is include *CD Player/MIDI Player/MP3/Wave Player/Mixer* with the control over your PC's audio functions.

➤ **KT333 DRAGON Lite hardware monitor for Win 9x/ME/2000/NT/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.

➤ **KT333 DRAGON Lite ITE SIM card reader driver for Win 9x/ME/2000/NT/XP(english)**

If you have reader card, it must be installed.

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.

(Internet Explorer is a Microsoft Trademark)*

Chapter 5

AUDIO DRIVER INSTALLATION

Audio Driver Installation for Windows 98/98se

After you have installed the audio driver, windows may prompt you to restart your computer.

When your computer restarted it may look for windows driver from your Win98CD and ask you to insert your Win98/98se CD to your CD-drive. At this point you need to insert the Win98 CD to your CD-drive and type in D:\win98 (assuming your CD-ROM in driver D).

Audio Driver Installation for Windows NT

1. Double click my computer.
2. Double click control panel.
3. Double click multimedia and select devices.
4. Select ADD and select OK.
5. Click on “Browse” then point it to the SOYO CD for the Audio driver.
6. The audio driver path is in SOYO CD:
“D:\audio\cmi8738_6ch\Win_NT40\drv.” (where D: is your CD-ROM)



APPENDIX A

Overview and Acknowledgments

C-Media 4 Channel Audio offers a new generation in audio solution: it utilizes the state-of-the-art CRL® 3D Audio technology (HRTF 3D positional audio), and supports Microsoft® DirectSound® 3D and Aureal®'s A3D® interfaces. Better yet, it supports 2/4 speakers and DLS based (DownLoadable Sound) wave table music synthesizer which supports the DirectMusic®. Besides being legacy audio SB pro® compatible, it also supports MPU-401 interface, dual game ports, etc. What we provide at the side card are line-in/rear speaker jack, microphone jack, audio output jack and 15pin D-SUB multiplexed joystick/MIDI connector.

• SPECIAL FEATURES

1. Full-duplex playback and recording. Built-in 16-bit CODEC.
2. HRTF 3D positional audio, supporting both DirectSound 3D® & A3D® interfaces. Also supports earphones, 2/4 channel speakers mode.
3. Support Windows 98 /Windows 2000 and Windows NT 4.0.
4. Built-in 32 OHM Earphone buffer.
5. MPU-401 Game/Midi port and legacy audio SB Pro support.
6. Downloadable Wave Table Synthesizer, supporting Direct Music®.

• Stereo Mixer

1. Stereo analog mixing from CD-Audio and Line-in
2. Stereo digital mixing from Voice, FM/Wave-table, and Digital CD-Audio
3. Mono mixing from MIC. Software adjustable volume.

- **Game and MIDI Interface**

Fully compatible with MPU-401 Midi UART and Sound Blaster Midi mode/Standard IBM PC joystick/game port (dual channels)

Windows Applications

AUDIO RACK (FOR WDM DRIVER)

By means of a user-friendly interface(as easy as operating your home stereo system), this PCI audio rack provides you with control over your PC's audio functions, including the advantage of 4 speakers mode enable/disable.



Control Center

This Audio Rack consists of several major components:

Control Center: Controls the display of the PCI Audio Rack components.



CD Player can play standard audio CDs, and allow you to create your own playlist.

MIDI Player can play MIDI files, *.mid/*.rmi, and allow you to create your own playlist.

MP3/Wave Player can play mp3, wave, and MPEG-1 files. It provides EAX and equalizer to improve the sound effects when you playback the audio files. If you want to sing a song, MP3/Wave Player also provides a Karaoke function. MP3/Wave Player can record input signals and save it in a wave file as well.

Mixer controls the volume level of your audio inputs and outputs.

Showing or Hiding Audio Rack Components

To show or hide a component from the display, click the component button(s) listed on the top.

CD Player

CD Player: Plays standard audio CDs, and allows you to create your own playlist.



Current Track field shows the number of the currently selected CD track.

CD title and track name field shows CD title and track name. You can modify CD title and track name in [Playlist] function.

Total length field displays the total length of the selected track in minutes and seconds.

Playback time field displays the current playback time.

Button Function



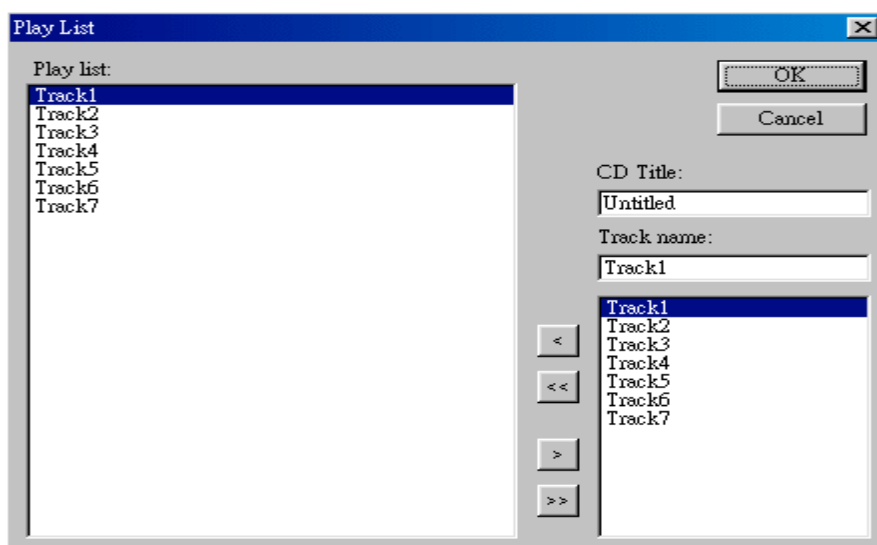
Playlist: You can select or move tracks of audio CD from and into the playlist. The title of CD and the name of tracks can be modified as well. Playlist dialog will save and show them automatically when you want to play the same CD.

Record input signals and save it in a wave file as well.

Mixer controls the volume level of your audio inputs and outputs.

Showing or Hiding Audio Rack Components

To show or hide a component from the display, click the component button(s) listed on the top.





Previous song: Loads the previous track of playlist. If current track is the first track, the last track will become the current track.



Next song: Loads the next track of playlist. If current track is the last track, the first track will become the current track.



Playback: Starts to playback the current track.



Pause/Restart: Pauses or restarts the current playback action.



Stop: Stops playback.



Playback backward for 10 seconds: Playback the current to 10 seconds before.



Playback forward for 10 seconds: Playback the current to 10 seconds after.



Loop: Playbacks the tracks over and over again.



Eject: *Opens the CD-ROM drive to change the audio CD.*



Setting: Selects the CD-ROM drive which analog output is connected to the Analog-CD in of your sound card. If your CD-ROM does not connect to the analog CD input wire, please use device manager to change the property of your CD-ROM.



Help: Shows the help screen for detailed button function descriptions.



About: Shows software version and copyright information.



Exit: Stops and leaves the CD player.

MIDI Player

MIDI Player can play MIDI files, *.mid/*.rmi, and allow you to create your own playlist.



Current file field shows the number of the currently selected MIDI files.

File name field shows the file name.

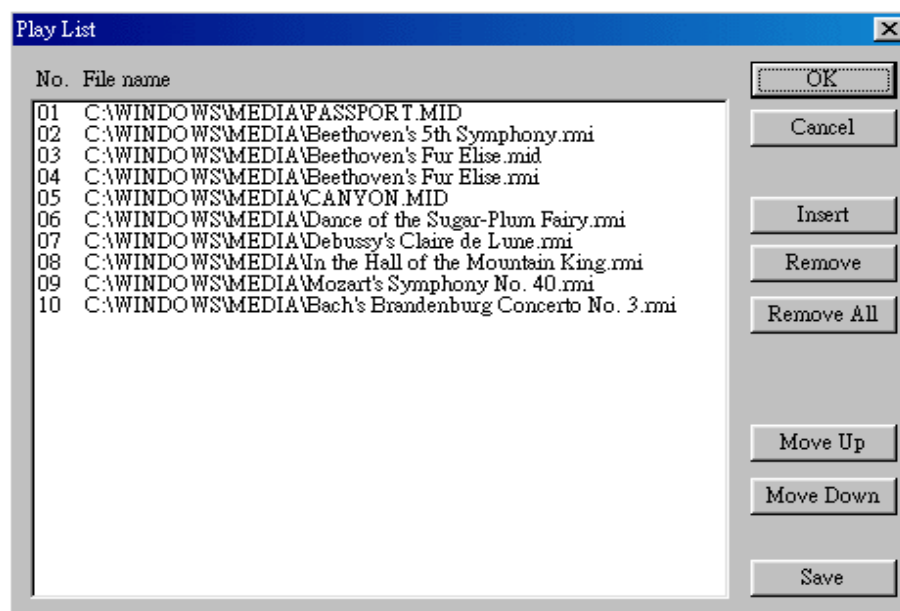
Total length field displays the total length of the selected file in minutes and seconds.

Playback time field displays the current playback time.

Button Function



Playlist: Allow you to insert, remove, and record the MIDI files into and from the playlist. You can save the playlist into a file as well.



Previous song: Loads the previous MIDI file of playlist. If current file is the first MIDI file, the last one will become the current selection.



Next song: Loads the next MIDI file of playlist. If current file is the last one, the first file will become the current selection.



Playback: Starts to playback the current MIDI file.



Pause/Restart: Pauses or restarts the current playback action.

Stop: Stops playback.



Playback Backward for 10 seconds: Playback the current to 10 seconds before.



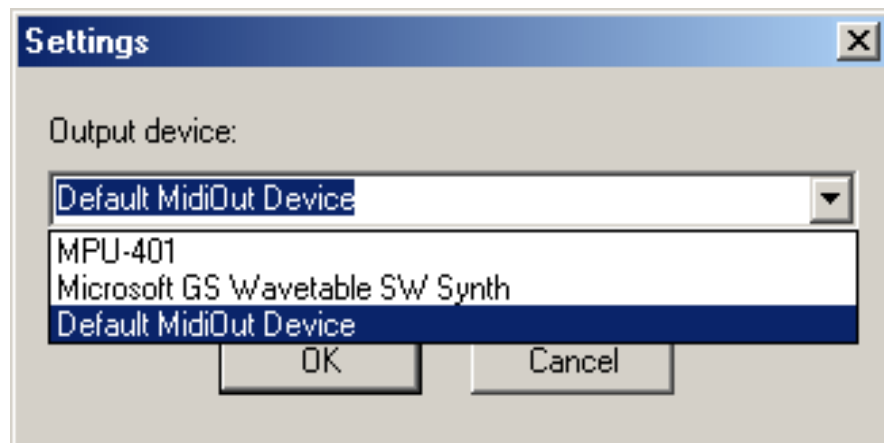
Playback Forward 10 seconds: Playback the current to 10 seconds after.



Loop: Playbacks the MIDI files of the playlist over and over again.



Setting: Selects the output device you want to use to playback the MIDI files.



Help: Shows the help screen for detailed button function descriptions.



About: Shows software version and copyright information.



Exit: Stops and leaves the MIDI Player.

MP3/Wave Player

MP3/Wave Player can play mp3, wave, and MPEG-1 files. It provides EAX and equalizer to improve the sound effects when you playback the audio files. MP3/ Wave Player can record input signals and save it into a wave file as well.



Current file field shows the number of the currently selected audio files in the playlist.

Frequency display field shows the frequency distribution.

Total length field displays the total length of the currently selected file in minutes and seconds.

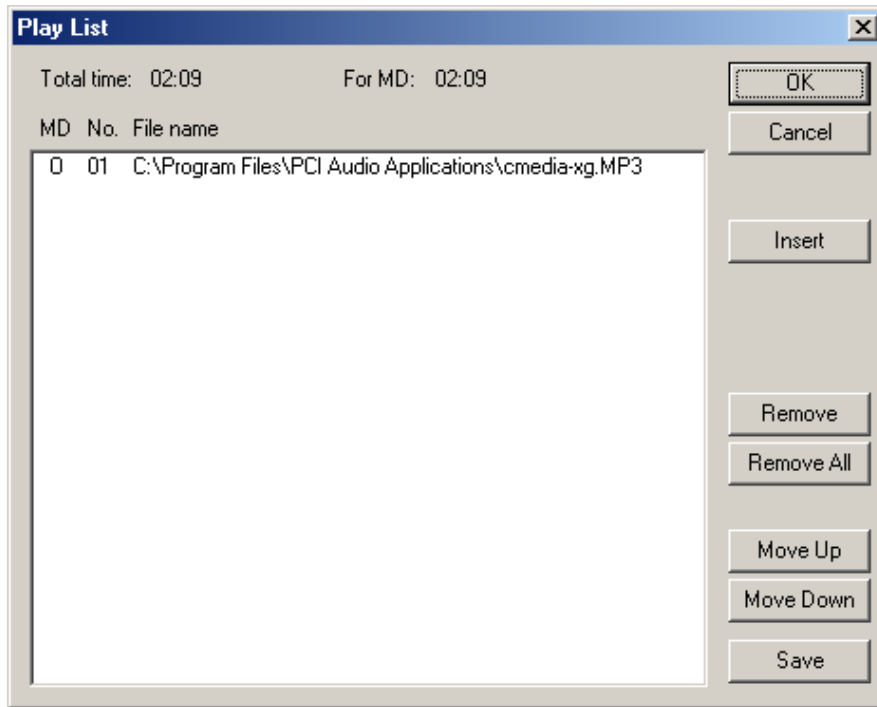
Playback time field displays the current playback time.

File name and status field displays the file name, audio format, sound effects selection, playback mode, and Karaoke mode.

Button Function



Playlist: Playlist allows you to insert, remove, and record the audio files into and from the playlist. The audio files include wave, MP3, and MPEG-1 encoding files.



Previous song: Loads the previous audio file of playlist. If current file is the first file, the last one will become the current selection.



Next song: Loads the next audio file of playlist. If current file is the last one, the first file will become the current selection.



Playback: Starts to playback the current audio file.



Pause/Restart: Pauses or restarts the current playback action.



Stop: Stops playback.



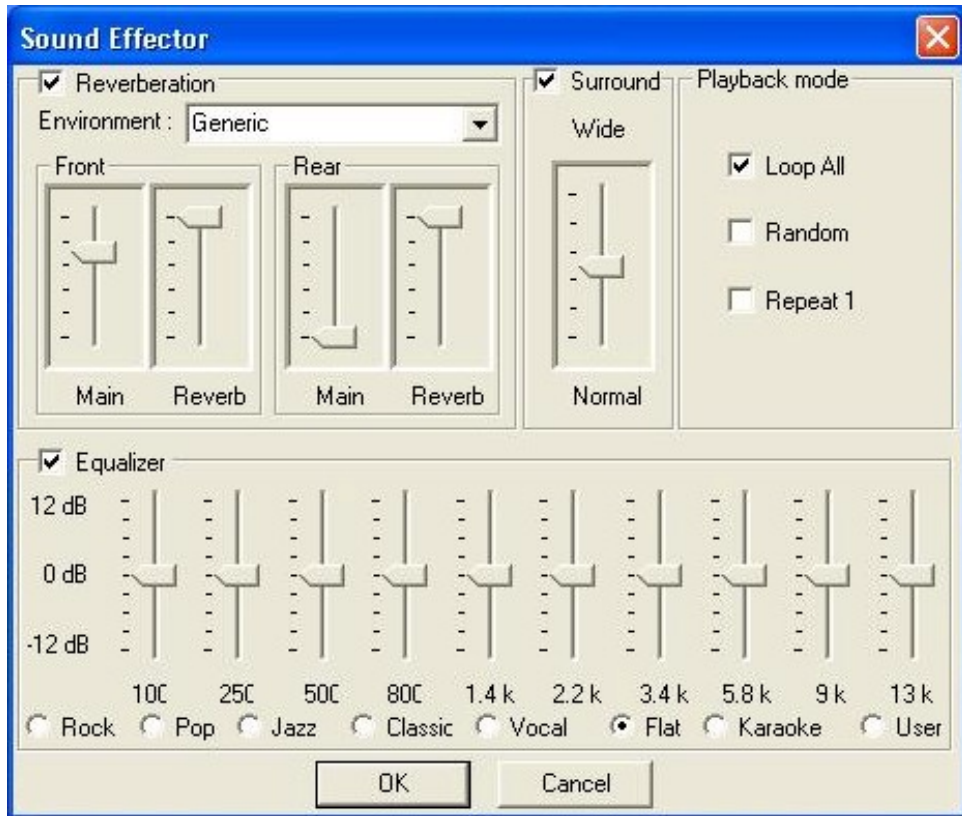
Playback backward for 10 seconds: Playback the current to 10 seconds before.



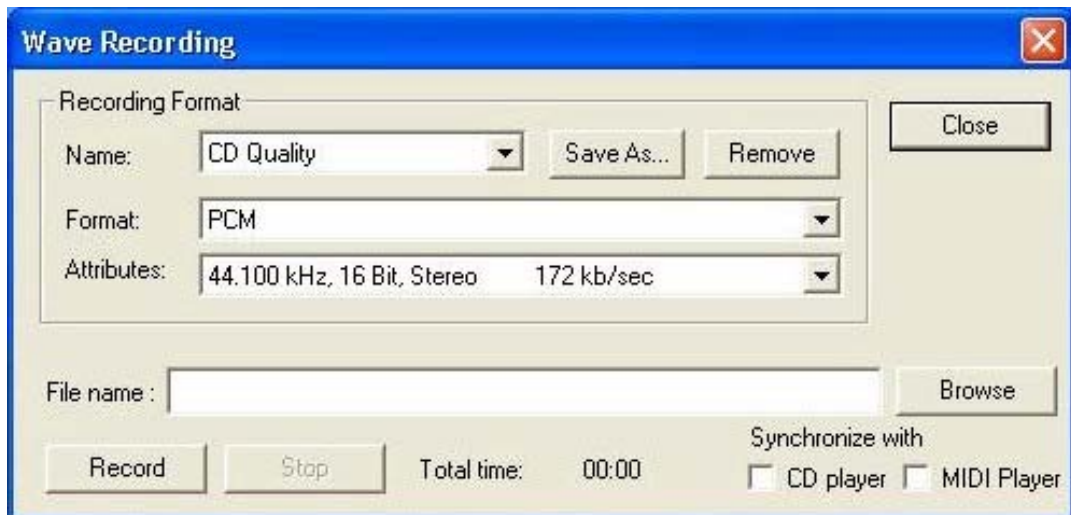
Playback forward for 10 seconds: Playback the current to 10 seconds after.



Sound effector: You can use this function to modify the special effect of the song being played. Currently, these effectors can only be used for 44.1 KHz, 16-bit format.



Recording: You can use this function to record a wave



file from any recording channel.



Help: Shows the help screen for detailed button function descriptions.



About: Shows software version and copyright information.



Exit: Stops and leaves the MP3/Wave Player.

Mixer

Volume Control



For each output signal, the control slider regulates the loudness whereas a horizontal slider the balance between the two speakers. The mute button can temporarily stop the output without changing slider positions. A button with a lit LED means the output is available, and vice versa. Several output signals can usually be enabled at once.

Volume: This is the master control over all outputs. The power of an output Re signal is determined by both of the volume slider and the slider for the individual output. To modify all the outputs, adjust the volume slider. To change individual output(s), adjust its(their) slider(s).

CD: Regulates the CD drive audio input level.

MIC: Regulates the input level of microphone.

WAVE: Regulates wave (voice) playback levels.

MIDI: Regulates the MIDI music play level.

AUX IN: Regulates the Auxiliary input play level.

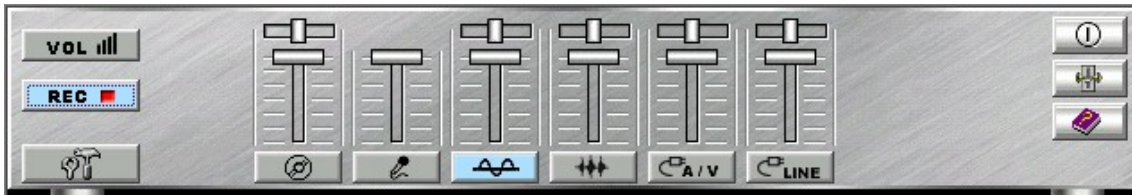
MONO IN: Regulates the Mono input level.

LINE IN: Regulates the Line-In levels. This option will appear on 2 channel speaker setup, 4 channel speaker setup will not have this option.

Advanced: Regulates the advanced settings.

Recording Control

2 channel



4 channel



For each input signal, a control slider regulates the loudness whereas a horizontal slider the balance between the two channels. The select button can temporarily select input signal without changing slider positions. A button with a lit LED means it is available, and vice versa.

CD: Regulates the CD drive audio input level.

MIC: Regulates the input level of microphone.

WAVE: Regulates wave (voice) playback level.

FM: Regulates the FM music play level.

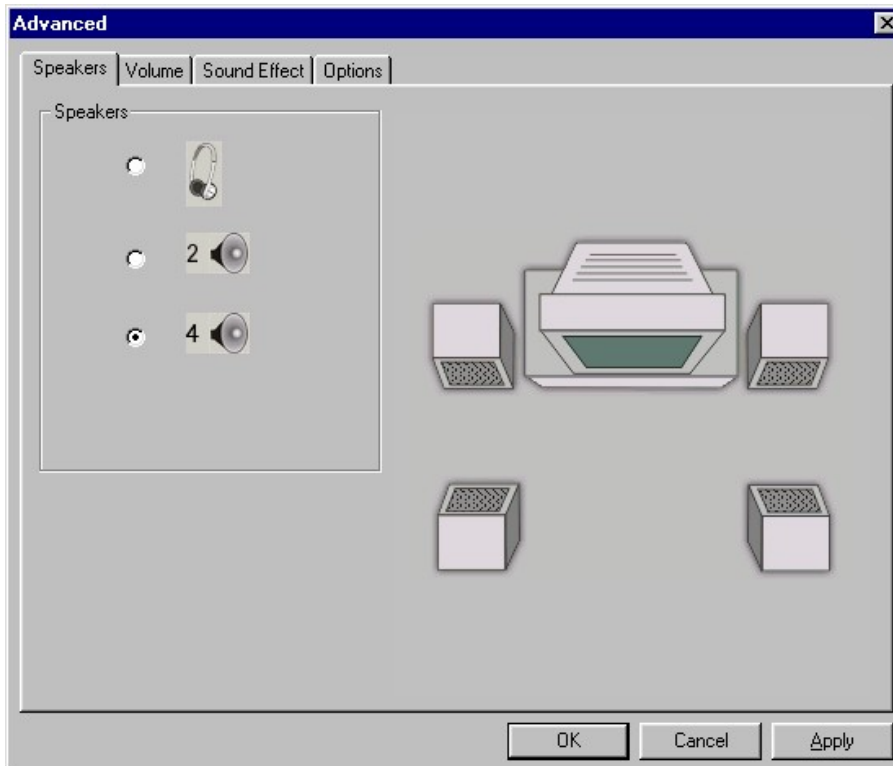
AUX IN: Regulates the Auxiliary input play level.

LINE IN: Regulates the Line-In level. This option will appear on 2 channel speaker setup, 4 channel speaker setup will not have this option.

Advanced: Regulates the advanced settings.

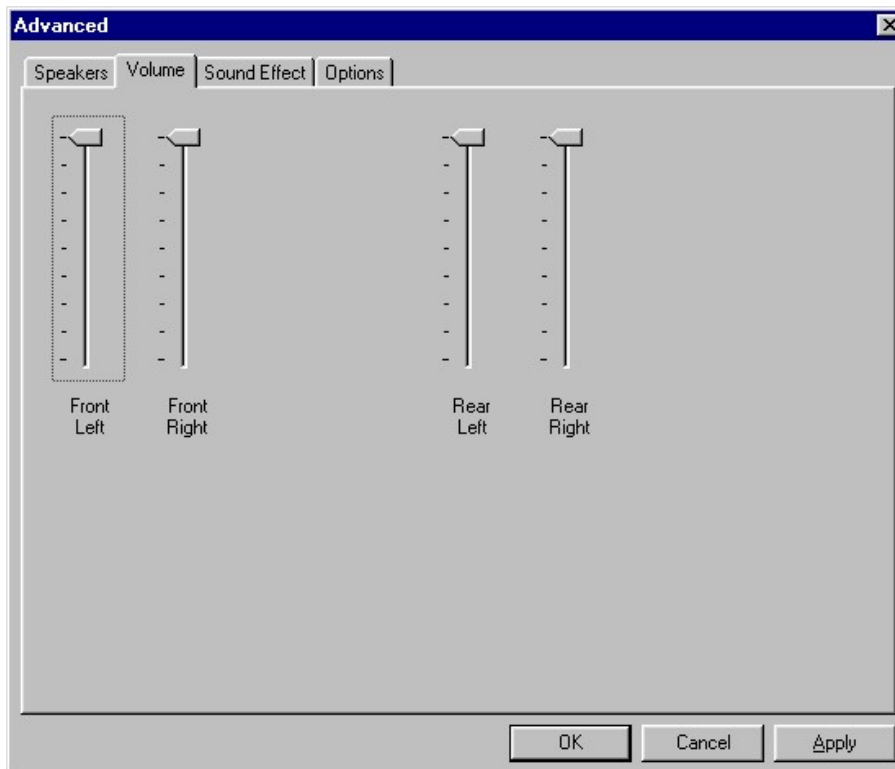
Advanced - Speakers

Speakers dialog provides an interface allowing you to set your speakers configurations. First, You should make sure what model type your speakers are, and what the correct configurations are. And this dialog also shows the current status and functions of the phone jacks of your audio device. You can always refer to this to make sure whether or not the connections of your speakers and microphone are correct.



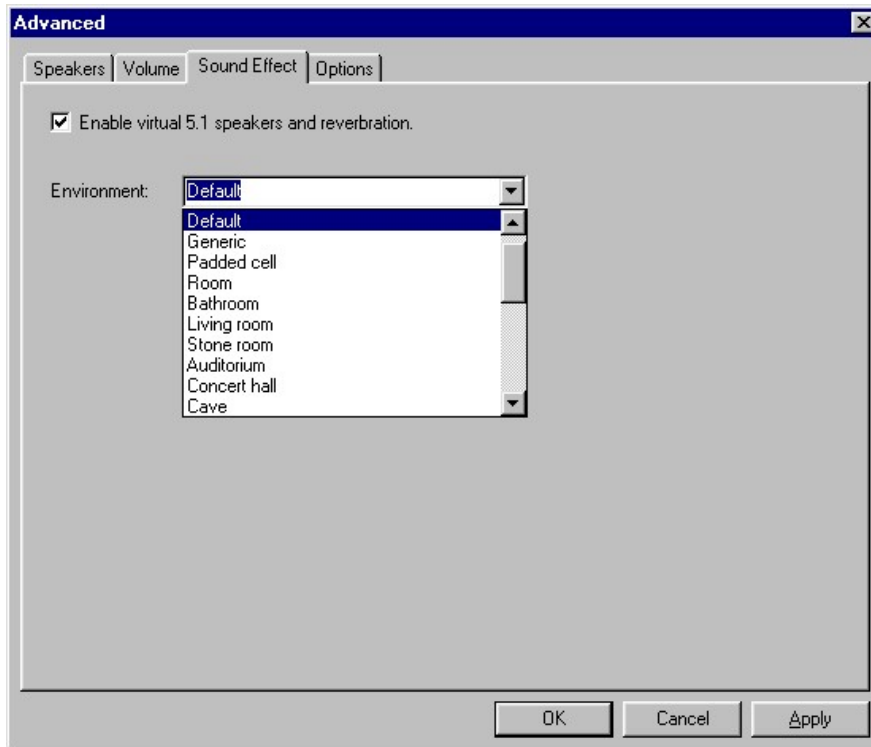
Advanced - Volume

Volume dialog provides a full control over the volume of the six channels digital output. You can adjust the volume of your speakers in this dialog. Please note that the volume of analog path is not controlled by this function.

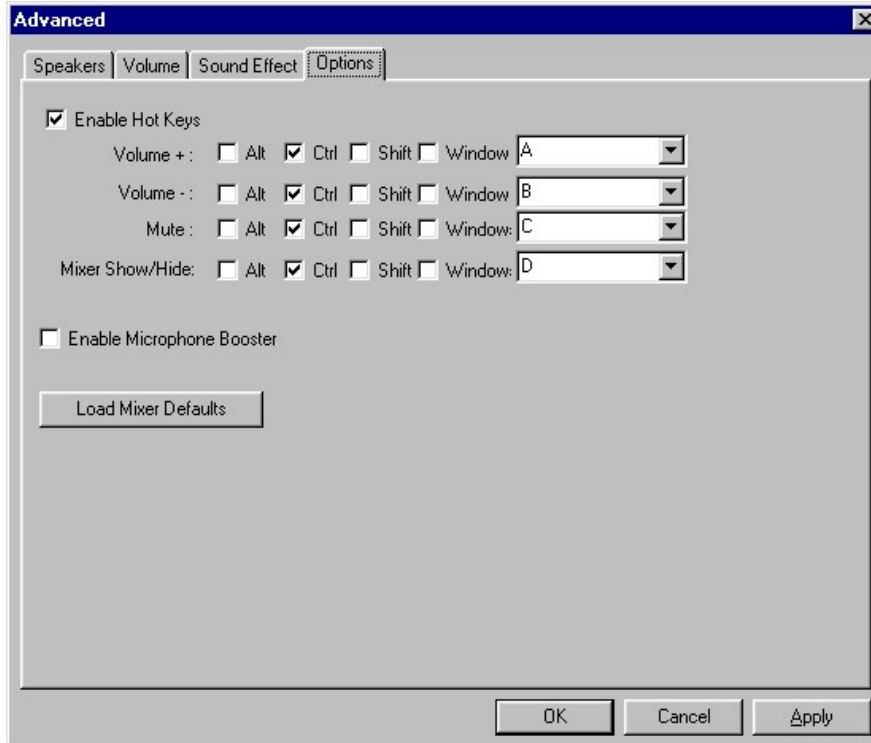


Advanced - Sound effects

Sound effects dialog allows you to modify the special effects of the song and game being played. Currently, these effectors can only be used for the player or the game which utilizes DirectSound 2D and 3D to playback their music.



Advanced - Options



Options dialog provides a hot key setting to control the Mixer in an easy way. Please note that other applications might be affected by this if you use the same hot key setting.

Please use 'Load Mixer Defaults' to change all settings to default values.

MULTI-CHANNEL AUDIO DEMO

CMI8738 PCI-Based C3DX Audio Chip provides many advanced functions, such as:

- * HRTF-based CRL[®] 3D extensional/positional audio; API compatible with Microsoft[®] DirectSound[®] 3D and Aureal[®] A3D API. Supports rear side speakers; C3DX positional audio in 4CH speakers mode.
- * Compatible with EAX[™] (Environment Audio extension).
- * KARAOKE ascending/descending keys, Echo.
- * Supports Center/Subwoofer side speakers. (for chip model 039 and the following models).

To let everyone avail himself/herself of the above functions, a user-friendly interface (Multi-Channel Audio Demo) was designed with the following functions:

1. 4 CH speakers mode, including Demo1 and Demo2.
2. EAX[™] (Environment Audio extension) support.
3. HRTF-based CRL[®] 3D extensional/positional audio.
4. KARAOKE ascending/descending keys, Echo, and microphone ascending/descending keys.

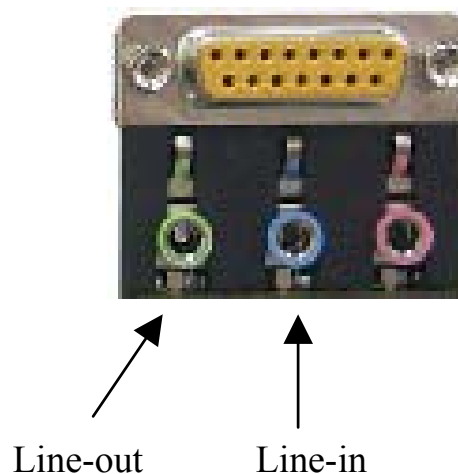


Speakers and Microphone Connection

Before running this demo program, you have to connect the speakers to the correct phone jacks.

When using 2 channel speaker, connect the speaker cable to line-out.

If you're using 4 channel speaker, connect the front L/R speakers to line-out and rear L/R speakers to Line-in. make sure to set the audio software for 4 channel speaker system.

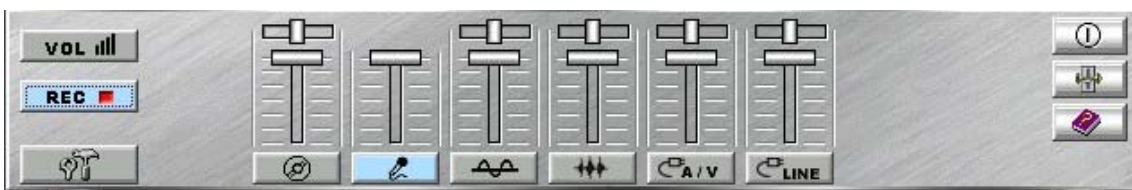
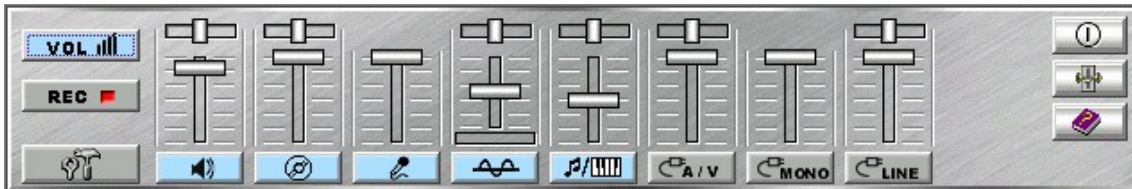


How to Enable 2/4 Speakers

You have to activate the "Mixer" program and enable the "2-Speaker" or "4 Speakers" mode to let the audio driver recognize your rear or center/subwoofer speakers, and have the front/rear/ center/ subwoofer speakers work. The audio driver will activate the audio chip to output different sounds from the front/rear/ center/subwoofer speakers based on different playback formats. For more information, please refer to the Mixer Advanced-Speakers dialog.

How to Adjust the Microphone Volume

You have to use the microphone when availing yourself of the "Echo" function. If the microphone is on and is very close to the speakers, it will cause feedback between the two. Also, unusual high frequencies or buzzing sounds might be heard from the speakers. To avoid this, you have to adjust the microphone volume in both recording and playback. Sometimes you might have to adjust the main and Wave volume as well. Please left-click the mouse to adjust the microphone (MIC) in both Volume and Recording Control.



Test Your Speakers Connection

To make sure that the front and the rear speakers are correctly connected, you can use the following program to testify individual speaker output. Move cursor to whichever speaker you want to test and left-click the mouse. If the setup is correct, you can hear music coming from that speaker alone. Each music output is different for distinction.

The Center and Subwoofer speakers are only supported by chip model 039 and the following models.



Demonstrations

Demo1 and Demo 2 are specially design for 4-speaker system demonstration. Select Demo 1 and/or Demo 2 by left-clicking the mouse. Sit back and relax, and let the music take control.

How was it like? Isn't it fantastic??? If you don't have 4-speaker system, hurry up and buy yourself one right away!



EAX

Monotonous footsteps generate distinctive sound effects in different environments. In this Demo, you can hear a lady wearing high heels walk in different surroundings: generic environment, bathroom, sewer pipe, and underwater. Left-click the mouse to activate this Demo and feel the differences.



HRTF

HRTF stands for Head Related Transfer Functions, and it is a set of audio filters varying locations of sound effects (spatial hearing cues) in three-dimension measured from the listener's eardrum.

This technology and special digital signal processing are used to recreate spatial hearing cues, making our ears hear realistic and three-dimensional sounds coming from a pairs of loud speakers or headphones.

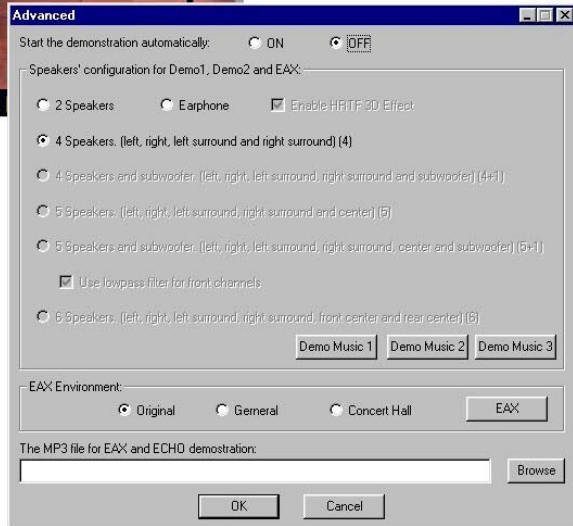
When you activate this Demo, you can hear a helicopter fly around you clockwise for three times.



Echo

Like to sing along with Karaoke? It might occur to you to use your PC for this. However, when you turn on the microphone, play the song, and ready to sing, you see that the effect is not as good as expected. Why? Echo is the answer. To help you solve this problem, this demo is designed to include the Echo function. Please left-click the upper right of the demo screen as shown below, and choose your own music file to play. Please note the file type has to be MP3 file.

Please left-click "Echo" to activate the function. For pitch adjustment, please use \uparrow and \downarrow keys on the keyboard. For microphone pitch adjustment, please use "+" and "-" keys on the numeric keyboard. To resume the original, please use \leftarrow and \rightarrow keys.



APPENDIX B

Troubleshooting at First Start

Boot-up Issues

The system do not power-up, no beeping sound heard and the CPU fan does not turn on.

1. Check if the power cord is plug to the power source.
2. Check if the power is connected to the M/B.
3. Check if the cable of the case power button is connected to the M/B power button connector (see connectors and plug-ins in the manual for more info).
4. Make sure the power supply is not defective. Change the power supply. The minimum should be 250 watts.
5. Remove the M/B from the case and test the system. The M/B might be shorted to the case.

The system power-up, no video, no beeping sound heard, but the CPU fan is turning.

1. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
2. Check all the jumper settings on the M/B. (if the M/B have any).
3. Check if the CPU is ok by using another CPU (check the Quick start guide for CPU supported on this M/B).
4. Check if the power supply is ok. The minimum should be 250 watts.
5. Make sure the CPU fan is connected to CPUFAN1 connector.
6. Remove the M/B from the case and test the system. The M/B might be shorted to the case.

The system power-up, no video, beeping heard.

1. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
2. Check all the jumper settings on the M/B. (if the M/B have any).

3. Check the memory module and the VGA card if inserted properly on the M/B.
4. If yes, change the memory module, it might be defective. Make sure the memory specification is supported by the M/B. (for more info on this, check our FAQ website).
5. Change the VGA card.

The system turns on for some seconds then shutdown by itself.

1. Check if the CPU fan is connected to the CPUFAN1 connector.
2. The CPU might be overheating. Check the CPU FAN if it is defective or see if the CPU fan is in contact with the CPU.
3. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
4. If you already checked the power supply specification, change the power supply it might be defective. The minimum is 250 watts.

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... ". Don't go any further. What should I do?

1. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
2. If still has the problem, remove all other add-on cards except video card see if it move further. Then put peripherals in one by one to identify which one cause the lockup.
3. Change the CPU.

During Boot-up, my computer says CMOS memory Checksum error.

What is the problem?

1. Clear CMOS memory.
2. Re-flash BIOS. Check on how to flash BIOS on the later part of this book.
3. Change the CMOS battery, the battery might be drained.
4. The BIOS chip might be failing.

I hear 3 beep sound before the system boot-up, is this normal?

Yes, this is normal. This is to inform the user that the system is still booting up.

I hear 1-2 beeping sound and then the system shutdown, what is the problem?

Make sure to connect the CPU fan to CPUFAN1 connector.

Stability Issue

My system intermittently locks up, very unstable.

1. Check the CPU Temp, it might be overheating. Change the CPU FAN.
2. Do not over clock your CPU
3. Check the specification of the memory module, maybe the M/B do not support it.
4. Go to BIOS setup and load fail safe settings. Please check if the system performance in the BIOS setup is set to Turbo/Maximum.
5. Check website for latest BIOS update.
6. Check website for FAQ's regarding instability issue.
7. Change the memory module or CPU.
8. The power supply might not have enough wattage to support all the peripherals. If your system has other peripherals connected, like CD-RW, extra HDD, etc. disconnect them.
9. Install VIA 4 in 1 driver.

My system intermittently locks up, during Windows installation.

1. Go to BIOS and load "load optimized default".
2. Check website for any BIOS update.
3. If still has the problem, remove all other add-on cards except CPU/ Memory/ Video card/Hard disk. See if you can finish Windows installation. Then put peripherals in one by one to identify which one cause the lockup.

My system will not boot-up when I set my CPU to 133MHz FSB, works with 100MHz FSB.

1. Make sure to put some thermal paste above the CPU.

2. CPU might be defective.

BIOS Issue

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 kvxa_2BA1 (meaning BIOS revision 2BA1 for the SY-K7V Dragon plus! 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), and look up your motherboard to find the latest BIOS revision.

How can I flash the BIOS?

1. Download the BIOS on our support website.
2. Make a bootable floppy disk with out any memory manager loaded (i.e. himem, emm386, etc...).
3. Copy the BIOS file and awdfash utility to the diskette.
4. Type "awdfash biosname.bin /sn /py".
5. Then reboot.

After flashing the BIOS, my system will not boot-up.

1. Try clearing the CMOS.
2. The BIOS chip is defected due to unsuccessful flash, contact your nearest SOYO branch for re-flashing.

Is there a way to reprogram my BIOS after an unsuccessful flash?

No other way, you need to send back the BIOS ROM to your nearest SOYO branch for re-flashing.

I'm using a 133MHz FSB CPU, I cannot find the DDR 100MHz option in the BIOS, why?

The DDR speed should not be lower than the CPU FSB speed.

VGA Issue

I cannot set my VGA to go higher than 16 color (640x 480).

1. Make sure that you have installed the VIA 4 in 1 driver.
2. Install/ re-install the VGA driver.

After wake-up from Suspend to RAM or Standby mode, the screen has no display but I can hear the hard disk operating.

1. Install VIA 4 in 1 driver.
2. Check the VGA card manufacturer for driver update, or make sure the VGA card support Suspend to Ram function.

Audio Issue

How can I disable the on-board Audio?

Go to the SOYO COMBO Feature in the BIOS setup, then set the "onboard 4CH H/W audio" to disable.

I cannot get the sound working on my system.

1. Check if the speaker wire is connected to the line out connector in the M/B.
2. Check if the speaker power is powered on.
3. Install the audio driver supplied on our driver disc.
4. Check BIOS setup if "onboard 4CH H/W audio" is enabled.
5. If sound already installed, check our website for audio driver update.

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 on-board CDIN1 connector in the M/B is not connected. See manual for location of CDIN1.

The sound from my sound card is distorted when Windows start. What is wrong?

If you are using an ISA sound card, please make sure the IRQ needed for the sound card is set to 'Legacy ISA' in the BIOS. In other word, if your ISA sound card takes IRQ5, then set IRQ5 to 'Legacy ISA'.

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

1. Please go to sound properties and check if the recorder and microphone in the are enabled.
2. Check if Microphone is ok.

Hard disk/FDD/ CD-ROM issue

My Western digital HDD is not detected during boot-up.

Change the jumper settings to cable select or single.

Sometimes the system finds my CD-ROM, sometimes not.

1. Check CD-ROM if it is working properly.
2. The power supply might not have enough wattage to support all the peripherals. If your system has other peripherals connected, like CD-RW, extra HDD, etc. disconnect them.

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).

For updated FAQs, please check <http://www.soyo.com.tw/faq.htm> or <http://www.soyousa.com/faqs.html>

APPENDIX C

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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