



SY-5EH5/5EHM V1.0

Super 7Ô

Motherboard

Pentium® Class CPU supported

ETEQ82C663 PCI/AGP Motherboard

AT Form Factor

User's Guide

&

Technical Reference

NSTL "Year 2000 Test" Certification Letter

September 23, 1998

Testing Date: September 23, 1998

Certification Date: September 23, 1998

Certification Number: NCY2000-980923-004

To Whom It May Concern:

We are please to inform you that the "SY-5EHM/5EH5" system has passed NSTL Year 2000 certification test program. The Year 2000 test program tests a personal computer for its ability to support the year 2000. The "SY-5EHM/5EH5: system is eligible to carry the NSTL :Year 2000 Certification" seal.

The Year 2000 certification test has been done under the following system configuration:

Company Name : SOYO COMPUTER INC.
System Model Name : SY-5EHM/5EH5
Hardware Revision : N/A
CPU Model : Intel Pentium 200/66Mhz
On Board Memory/L2 Cache : PC100 SDRAM DIMM 32MBx1 /1MB
System BIOS : Award Modular BIOS V4.51PG, An Energy Star Ally
Copyright © 1984-98, EH-1A6.07/15/1998-VP3-586B-8669-2A5LES2AC-00

Best regards,


Summer Chien
NSTL/ALLION Labs
Vice President

SPORTON INTERNATIONAL INC.



Declaration of Conformity

According to 47 CFR, Part 2 and 15 of the FCC Rules

Declaration No.: D872907

July, 10 1998

The following designated product

**EQUIPMENT: Main Board
MODEL NO.: SY-5EH**

Which is the Class B digital device complies with 47 CFR Parts 2 and 15 of the FCC rules.

Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The product was tested with the following configuration:

Monitor: SONY/AK8GDM17SE2T

Printer: HP/DS17XU2225

Modem: ACEEX/IF AXDM1414

Keyboard: SILITED/GYUM99SK

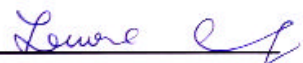
This declaration is given for the manufacturer

**SOYO COMPUTER INC.
No.21, Wu-Kung 5 Rd., Hsing Chuang City,
Taipei Hsien, Taiwan, R.O.C.**

The test was carried out by

**SPORTON INTERNATIONAL INC.
6F, No. 106, Hsin Tai Wu Rd., Sec. 1, His Chih,
Taipei Hsien, Taiwan, R.O.C.**


Manufacturer Signature


SPORTON LAB. Signature

About This Guide

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

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Edition: June 1999
Version 1.1
5EHM/5EH5 V1.0 SERIAL

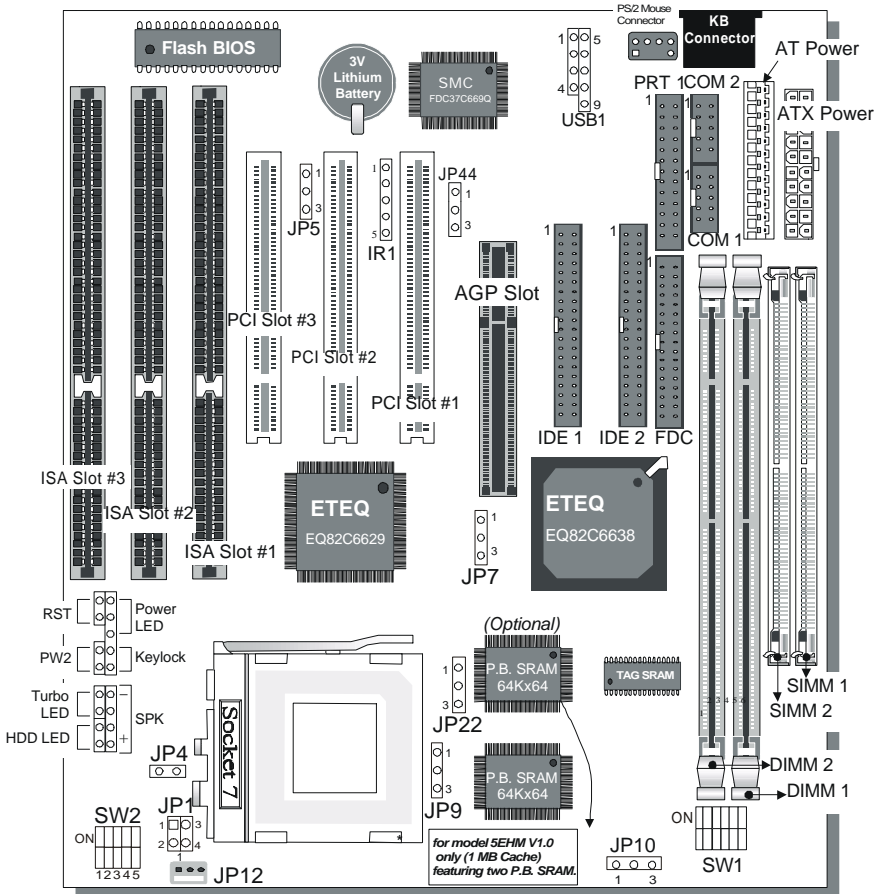
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SY-5EHM/5EH5 V1.0 Motherboard Layout



SY-5EHM/5EH5 V1.0 Platform

Chapter 1

INTRODUCTION

The **SY-5EHM/5EH5 V1.0** AGP/PCI Motherboard is a high-performance AT form-factor system board. **SY-5EHM/5EH5 V1.0** uses the ETEQ82C663 AGP/PCI Chipset technology and supports Pentium® class processors. This Motherboard is fully compatible with industry standards and adds many technical enhancements.

1-1 KEY FEATURES

● CPU

- Supports Intel Pentium Processor P54C/P55C series CPUs featuring speeds of 100-233 MHz
- Supports Cyrix 6x86/6x86L/6x86MX CPUs with PR150-PR266 MHz speeds and Cyrix M II-300-366 MHz speeds CPU
- Supports AMD K5 CPUs running at PR100-PR166 MHz speeds, AMD K6 CPUs running at speeds of 166-300 MHz speeds, AMD K6-2 266-500 MHz Speeds CPU and AMD K6-III 400-450 MHz speeds CPU
- Supports IDT X86 CPU C6/2-200/225, IDT WinCip 2-233-300 MHz speeds CPU
- Supports Rise mP6 PR-266 MHz speeds CPU
- Features Socket 7 for CPU easy upgrade
- Supports P54C/P55C series SIMM Mode and CPU Stop Clock

● L2 Cache Controller

- On-board 512KB(SY-5EH5 V1.0) or 1MB (SY-5EHM V1.0) Level 2 Pipeline Burst SRAM Cache

● DRAM Controller

- Supports 2 strips of 168-pin SDRAM unbuffered DIMM

2 x 168-pin DIMM banks support 8/16/32/64/128/256 MB unbuffered DIMM modules

- Support 2 strips of 72-pin FPM/EDO SIMM 2 x 72-pin SIMM banks support 8/16/32/64 MB SIMM modules
- Memory configuration:
 - ◆ System memory: 8MB to 640MB with EDO/SDRAM

SY-5EHM/5EH5 V1.0 PLATFORM FEATURES

Board Size	4-layer PCB, 22x23cm(8.7"x9.1"), AT Form Factor
Socket 7	Socket for Pentium® class CPUs with Host Bus frequency of 66/100MHz Supports: <ul style="list-style-type: none"> ➤ Intel Pentium® Processors P54C/P55C (100-233MHz) ➤ Cyrix 6x86™ (PR166+-PR200+), Cyrix 6x86 MX™ (PR166-PR266) and Cyrix M II™ (300~366) ➤ AMD K5™ (PR100-PR166), and AMD K6™ (166-300) and AMD K6™2 (266~500) and AMD K6™-III 400/450 ➤ IDT X86 CPU C6/W2 200/225 and X86 CPU 2 (233-300) ➤ Rise mP6 PR266
Chipset	ETEQ82C663 PCI/AGP Bus Chipset
ATX Power	20-pin Male Connector
JP12	3-pin CPU Cooling Fan Connector
Memory	DIMM Bank (DIMM1 & DIMM2) <ul style="list-style-type: none"> ➤ 168-pin Unbuffered EDO/SDRAM DIMM Module ➤ Supports 8~256MB DIMM in each Bank ➤ Supports ECC configuration SIMM Bank (Bank1,2) <ul style="list-style-type: none"> ➤ 72-pin SIMM Modules
BIOS	System BIOS built-in, Award BIOS <ul style="list-style-type: none"> ➤ APM, ACPI and "Plug-and-Play" function ➤ Supports multiple-boot function ➤ DMI utility
PCI Slots	3 x 32-bit Bus Mastering Slots
ISA Slots	3 x 16-bit ISA Slots
IDE1, IDE2	2 x 40-pin Bus Mastering E-IDE/ATAPI Ports <ul style="list-style-type: none"> ➤ IDE1: Primary IDE Device Connector ➤ IDE2: Secondary IDE Device Connector ➤ Supports Ultra DMA/33
FDC	1 Floppy Disk Drive (FDD) Port (Supports 1.2MB/1.44MB/2.88MB and LS120/3-mode FDD)

SIR	5-pin Serial Infrared Device Connector
Keylock	5-pin KeyLock Connector
Reset	2-pin Reset Switch Connector
Speaker	4-pin PC Speaker Connector
TB_LED	2-pin Turbo LED Connector
HDD_LED	2-pin IDE Device LED Connector
PWRBT	ATX Power On/Off Switch 2-pin Connector
JP1	Single or Dual voltage selection Jumper
JP5	CMOS Clear Jumper
JP7	CPU bus clock frequency Jumper
JP9, JP10	SDRAM frequency Jumpers
JP22	CPU Burst Mode Jumper
JP44	WOL (Wake-On-LAN) 3-pin Connector
SW1	CPU frequency Settings Jumper
SW2	CPU Voltage Selection Jumper

1-2 HANDLING THE MOTHERBOARD

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

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



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

1-3 ELECTROSTATIC DISCHARGE PRECAUTIONS

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

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

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

Chapter 2

HARDWARE SETUP

Congratulations on your purchase of **SY-5EHM/5EH5 V1.0** Super 7™ Motherboard. You are about to install and connect your new Motherboard.



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

2-1 Preparations

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

1. Pentium processor with CPU cooling fan.
2. DIMM memory module
3. Computer case and chassis with adequate power supply unit
4. Monitor
5. Keyboard
6. Pointing Device (Serial or 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 Unpacking the Motherboard

When unpacking the Motherboard, check for the following items:

- The SY-5EHM/5EH5 V1.0 ETEQ82C663 PCI/AGP Motherboard
- The Quick Start Guide *
- The Installation CD-ROM *
- The CPU Retention Set
- One IDE Device Flat Cable
- One Floppy Disk Drive Flat Cable
- One bracket with one 9-pin serial connector, attached with 9-pin flat cable, and one 6-pin PS/2 mouse connector, attached with 6-pin cable.
- One bracket with one 25-pin connector parallel connector attached with 25-pin flat cable and one 9-pin serial connector attached with 9-pin flat cable.

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



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

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

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

2-3 Installation Guide

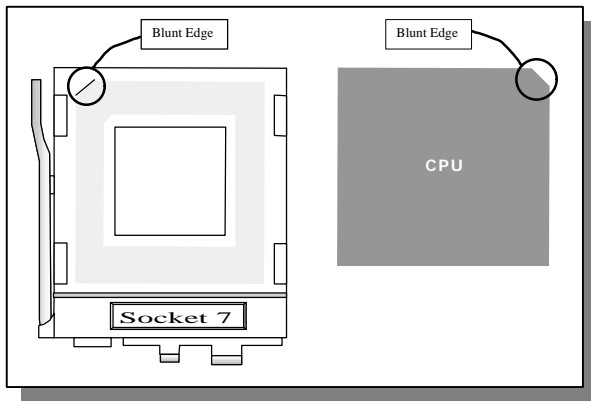
We will now begin the installation of the Motherboard. Please follow the step-by-step procedure designed to lead you to a complete and correct installation.

Step 1. CPU Installation

Follow these instructions to install your Pentium® class processor correctly.

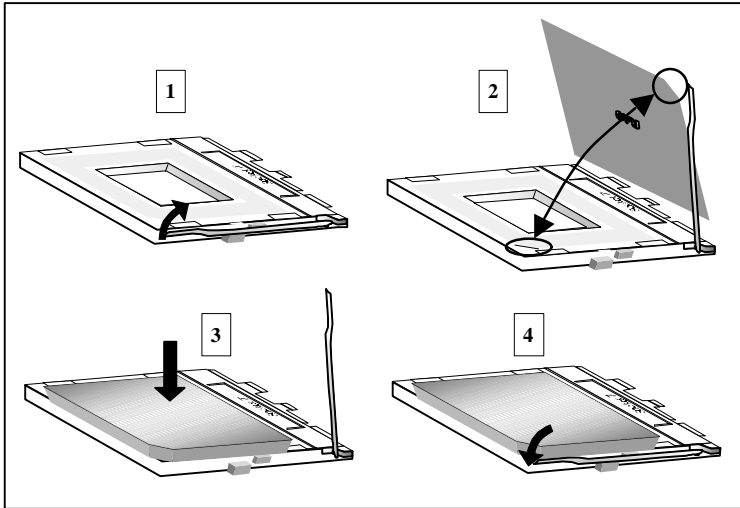
Locate the CPU socket labeled Socket 7 on your Motherboard and note the distinctive pinhole arrangement.

Note the corresponding pinhole arrangement on the processor.



Follow these steps to install the CPU in the Socket 7:

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

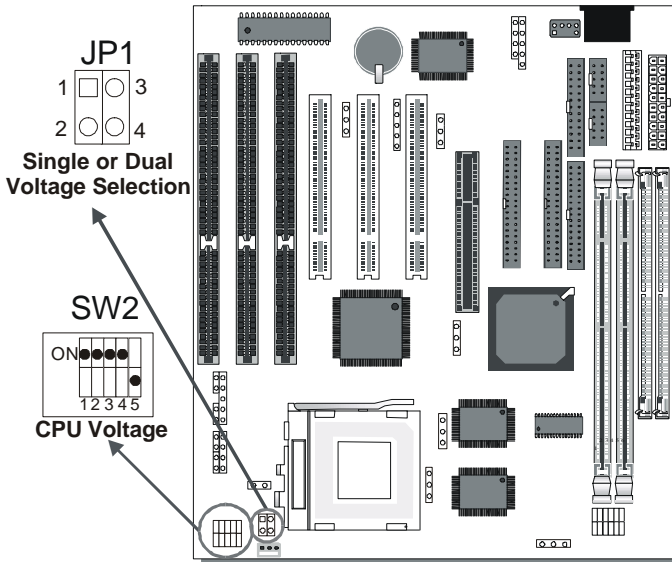


Step 2. CPU Fan (JP12) Installation

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



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

Step 3. CPU Voltage Setting (SW2,JP1)

Please verify the correct voltage with your dealer before installation. Use the following tables to set SW2 to the proper "Voltage Value", according to the specifications marked on your CPU: This Motherboard comes with pre-configured setting of CPU voltage. However the voltage of your CPU maybe different with the default setting.

- **CPU VOLTAGE SETTING (SW2,JP1)**

SW2 is used to set the CPU core voltage, JP1 is used to select the CPU voltage type single voltage or dual voltage.

There are two kinds of CPU voltages currently on the market depending on the CPU manufacturer:

- Single Voltage (CPU: P54C, AMD-K5, Cyrix 6x86, IDT X86 CPU C6/W2,Rise mP6)
- Dual Voltage (CPU: P55C, AMD-K6, AMD-K6-2, AMD-K6-III, Cyrix 6x86L,Cyrix 6x86MX, Cyrix M II)

Those processors may come in various voltages on different



markets. Therefore, always make sure you know the type of the CPU you are installing and adjust the settings on SW2 accordingly.

This motherboard supports CPU core voltages from 2.0 to 3.5V in 0.1V increments. Use the following tables to set the CPU voltage jumpers SW2 to match the voltage value of your CPU:

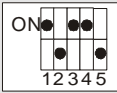

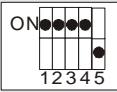

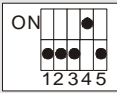

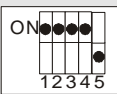

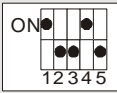

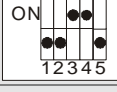

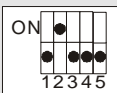

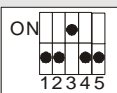

CPU Core Voltage Setting: SW2

Voltage Value	1	2	3	4	5
3.5V	on	on	on	on	off
3.4V	off	on	on	on	off
3.3V	on	off	on	on	off
3.2V	off	off	on	on	off
3.1V	on	on	off	on	off
3.0V	off	on	off	on	off
2.9V	on	off	off	on	off
2.8V	off	off	off	on	off
2.7V	on	on	on	off	off
2.6V	off	on	on	off	off
2.5V	on	off	on	off	off
2.4V	off	off	on	off	off
2.3V	on	on	off	off	off
2.2V	off	on	off	off	off
2.1V	on	off	off	off	off
2.0V	off	on	on	on	on





Single or Dual voltage selection: JP1

Voltage Type	JP1
Single Voltage (P54C, AMD-K5, Cyrix 6x86, IDT X86 CPU C6/W2)	1 
Dual Voltage (P55C, AMD-K6, AMD-K6-2, AMD-K6-III, Cyrix 6x86L, Cyrix 6x86MX, Cyrix M II, Rise mP6)	1 

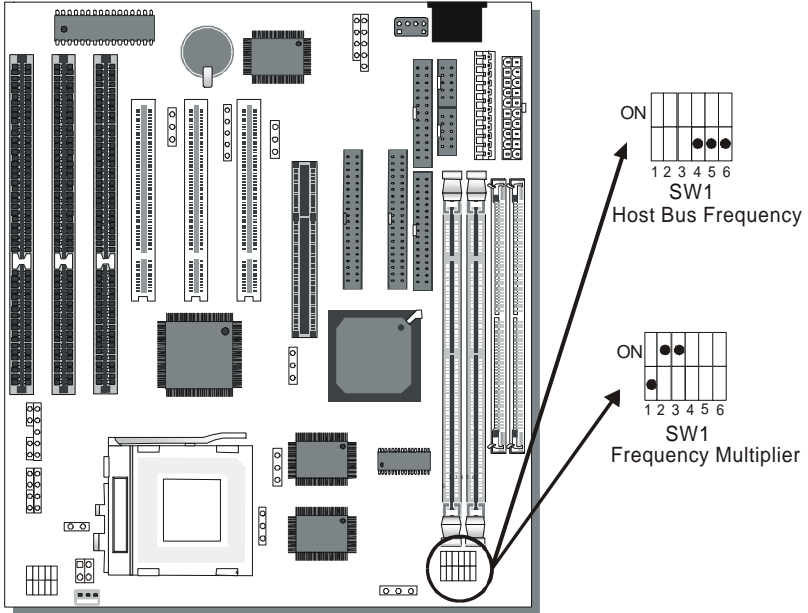
Voltage Settings for Various Processors

Processor Voltage Setting	Voltage Value: SW2	JP1
Intel P54C - P100 Intel P54C - P133	Single Voltage VORE:3.3V VIO:3.3V 	1 
Intel P54C - P166 Intel P54C - P200	Single Voltage VORE:3.5V VIO:3.5V 	1 
Intel P55C - P166 Intel P55C - P200 Intel P55C - P233	Dual Voltage VORE:2.8V VIO:3.3V 	1 
AMD K5 - PR100 AMD K5 - PR133 AMD K5 - PR166	Single Voltage VORE:3.5V VIO:3.3V 	1 
AMD K6 166 AMD K6 200	Dual Voltage VORE:2.9V VIO:3.3V 	1 
AMD K6 233	Dual Voltage VORE:3.2V VIO:3.3V 	1 
AMD K6 266 AMD K6 300 AMD K6-2 266 AMD K6-2 300 AMD K6-2 333 AMD K6-2 350 AMD K6-2 366 AMD K6-2 380 AMD K6-2 400	Dual Voltage VORE:2.2V VIO:3.3V 	1 
AMD K6-2 450 AMD K6-2 475 AMD K6-2 500 AMD K6-III 400 AMD K6-III 450	Dual Voltage VORE:2.4V VIO:3.3V 	1 

Voltage Settings for Various Processors (continued)

Processor Voltage Setting	Voltage Value: SW2	JP1
Cyrix 6x86(L) PR166+ Cyrix 6x86(L) PR200+	The Cyrix 6x86(L) come in several versions with different voltages. Please ask your dealer for the correct voltage.	
Cyrix 6x86MX-PR166* Cyrix 6x86MX-PR200* Cyrix 6x86MX-PR233* Cyrix 6x86MX-PR266* Cyrix M II 300* Cyrix M II 333* Cyrix M II 350* Cyrix M II 366* Cyrix M II 380*	Dual Voltage VORE:2.9V V/I/O:3.3V	
IDT X86 CPU C6/2-225 IDT X86 CPU 2-266 IDT X86 CPU 2-300	Single Voltage VORE:3.5V V/I/O:3.3V	
IDT X86 CPU C6/2-200* IDT X86 CPU 2-233*	Single Voltage VORE:3.3V V/I/O:3.3V	
Rise mP6 PR266	Dual Voltage VORE:2.8V V/I/O:3.3V	
* Set the proper CPU voltage according to the marking on the CPU.		

Step 4. CPU Frequency Setting (SW1)



The SY-5EHM/5EH5 V1.0 Motherboard is designed to support most Pentium® class processors currently on the market. Jumpers SW1 is used to configure the Motherboard frequency parameters to match the working frequency of your CPU.

● CPU FREQUENCY SETTING (SW1)

Configure the SW1 jumpers to the settings that match your CPU

and Host Bus Frequency of your CPU:

Frequency Multiplier

Multiplier	1	2	3
1.5/3.5x	off	off	off
2.0x*	on	off	off
2.5x	on	on	off
3.0x	off	on	off
4.0x	on	off	on
4.5x	on	on	on
5.0x	off	on	on
5.5x	off	off	on

Host Bus Frequency	4	5	6
66MHz	off	off	off
75MHz	off	on	off
83MHz	on	on	off
95MHz	on	off	on
100MHz	off	off	on
112MHz	off	on	on
124MHz	on	off	off

Example: If the working frequency of your CPU is 133MHz, then select Multiplier=2.0x and Host Bus Frequency=66Mhz accordingly.

Also, as newer and higher frequency CPUs may not be listed in this section, please refer to the tables **CPU Frequency Settings for Various Processors** on page 8 for complementary information.

Please refer to the following table that gives you the correct frequency settings for the specific brand and model of CPU you are installing on this Motherboard.

Frequency Settings for Intel® Processors

Processor Frequency Setting	Ratio	Bus Clock	AGP Clock	PCI Clock	Frequency Setting: SW1
Intel P54C - P100	1.5 x	66MHz	66MHz	33MHz	
Intel P54C - P133	2.0 x	66MHz	66MHz	33MHz	
Intel P54C - P166	2.5 x	66MHz	66MHz	33MHz	
Intel P54C - P200	3.0 x	66MHz	66MHz	33MHz	
Intel P55C - P166	2.5 x	66MHz	66MHz	33MHz	
Intel P55C - P200	3.0 x	66MHz	66MHz	33MHz	
Intel P55C - P233	3.5 x	66MHz	66MHz	33MHz	

* Set the proper CPU frequency according to the marking on the CPU.

Frequency Settings for AMD™ Processors

Processor Frequency Setting	Ratio	Bus Clock	AGP Clock	PCI Clock	Frequency Setting: SW1
AMD K5 - PR100	1.5 x	66MHz	66MHz	33MHz	
AMD K5 - PR133	2.0 x	66MHz	66MHz	33MHz	

Frequency Settings for AMD™ Processors (Continued)

Processor Frequency Setting	Ratio	Bus Clock	AGP Clock	PCI Clock	Frequency Setting: SW1
AMD K5 - PR166	2.5 x	66MHz	66MHz	33MHz	
AMD K6 - 166	2.5 x	66MHz	66MHz	33MHz	
AMD K6 - 200	3.0 x	66MHz	66MHz	33MHz	
AMD K6 - 233	3.5 x	66MHz	66MHz	33MHz	
AMD K6 - 266	4.0 x	66MHz	66MHz	33MHz	
AMD K6 - 300	4.5 x	66MHz	66MHz	33MHz	
AMD K6-2 266	4.0 x	66MHz	66MHz	33MHz	
AMD K6-2 300	4.5 x	66MHz	66MHz	33MHz	
AMD K6-2 300	3.0 x	100MHz	66MHz	33MHz	
AMD K6-2 333	5.0 x	66MHz	66MHz	33MHz	
	3.5 x	95MHz	63.4MHz	31.7MHz	
AMD K6-2 350	3.5 x	100MHz	66MHz	33MHz	
AMD K6-2 366	5.5 x	66MHz	66MHz	33MHz	

Frequency Settings for AMD™Processors (Continued)

Processor Frequency Setting	Ratio	Bus Clock	AGP Clock	PCI Clock	Frequency Setting: SW1
AMD K6-2 380	4.0 x	95MHz	63.5MHz	31.75MHz	
AMD K6-2 400	4.0 x	100MHz	66MHz	33MHz	
AMD K6-2 450	4.5 x	100MHz	66MHz	33MHz	
AMD K6-2 475	5.0 x	95MHz	63.5MHz	31.75MHz	
AMD K6-2 500	5.0 x	100MHz	66MHz	33MHz	
AMD K6-III 400	4.0 x	100MHz	66MHz	33MHz	
AMD K6-III 450	4.5 x	100MHz	66MHz	33MHz	

* Set the proper CPU frequency according to the marking on the CPU.

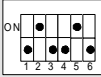
Frequency Settings for Cyrix™Processors

Processor Frequency Setting	Ratio	Bus Clock	AGP Clock	PCI Clock	Frequency Setting: SW1
Cyrix 6x86 - PR166+	2.0 x	66MHz	66MHz	33MHz	
Cyrix 6x86 - PR200+	2.0 x	75MHz	75MHz	37.5MHz	
Cyrix MX - PR166**	2.0 x	66MHz	66MHz	33MHz	
Cyrix MX - PR200**	2.5 x	66MHz	66MHz	33MHz	

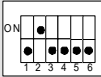
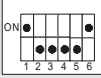
Frequency Settings for Cyrix™Processors (Continued)

Processor Frequency Setting	Ratio	Bus Clock	AGP Clock	PCI Clock	Frequency Setting: SW1
Cyrix MX - PR200**	2.0 x	75MHz	75MHz	37.5MHz	
Cyrix MX - PR233**	2.5 x	75MHz	75MHz	37.5MHz	
Cyrix MX - PR266**	2.5 x	83MHz	55MHz	27.5MHz	
Cyrix M II - 300**	3.5 x	66MHz	66MHz	33MHz	
Cyrix M II - 300**	3.0 x	75MHz	75MHz	37.5MHz	
Cyrix M II - 333**	4.0 x	66MHz	66MHz	33MHz	
Cyrix M II - 333**	3.5 x	75MHz	75MHz	37.5MHz	
Cyrix M II - 333**	3.0 x	83MHz	55MHz	27.5MHz	
Cyrix M II - 350**	3.0 x	100MHz	66MHz	33MHz	
Cyrix M II - 366**	2.5 x	100MHz	66MHz	33MHz	
Cyrix M II - 380**	3.0 x	100MHz	66MHz	33MHz	

Frequency Settings for IDT™Processors

Processor Frequency Setting	Ratio	Bus Clock	AGP Clock	PCI Clock	Frequency Setting: SW1
IDT X86 CPU C6/2-200	3.0 x	66MHz	66MHz	33MHz	
IDT X86 CPU C6/2-225	3.0 x	75MHz	75MHz	37.5MHz	
IDT X86 CPU 2-233	3.5 x	66MHz	66MHz	33MHz	
IDT X86 CPU 2-266	2.33 x	100MHz	66MHz	33MHz	
IDT X86 CPU 2-300	2.5 x	100MHz	66MHz	33MHz	

Frequency Settings for Rise™Processors

Processor Frequency Setting	Ratio	Bus Clock	AGP Clock	PCI Clock	Frequency Setting: SW1
Rise mP6 PR266	3.0 x	66MHz	66MHz	33MHz	
	2.0 x	100MHz	66MHz	33MHz	

Step 5. Set JP7,JP9,JP10 for SDRAM frequency

JP7 is used to indicate the frequency of the CPU bus clock to the ETEQ chipset.

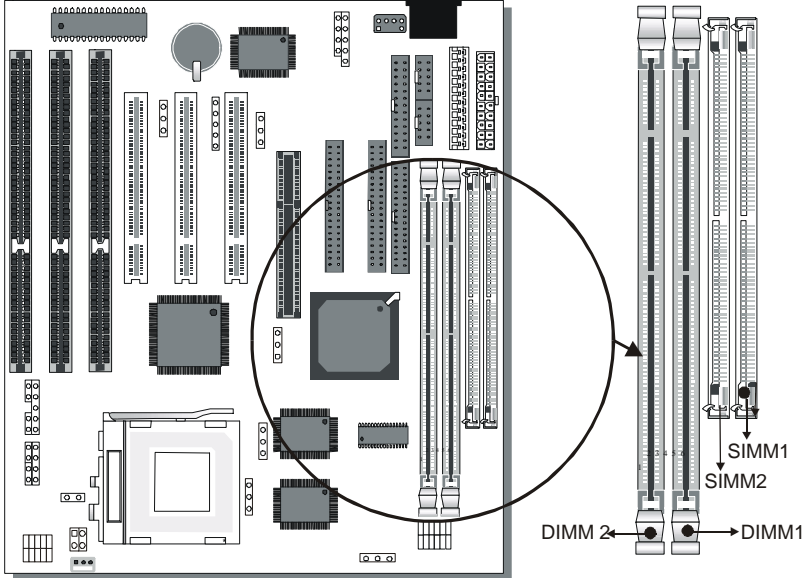
JP9 and JP10 are used to determine that the SDRAM is running at the frequency of the CPU bus clock or the AGP clock.

CPU BUS Clock	AGP BUS Clock	JP10	JP7	JP9	SDRAM Clock
66MHz	66MHz	1-2	2-3	2-3	66MHz
75MHz	75MHz	1-2	2-3	2-3	75MHz
83MHz	55MHz	2-3	1-2	1-2	55MHz
		1-2	1-2	2-3	83MHz
95MHz	63.4MHz	2-3	1-2	1-2	63.4MHz
		1-2	1-2	2-3	95MHz
100MHz	66MHz	2-3	1-2	1-2	66MHz
		1-2	1-2	2-3	100MHz
112MHz	75MHz	2-3	1-2	1-2	75MHz
		1-2	1-2	2-3	112MHz
124MHz	82.6MHz	2-3	1-2	1-2	82.6MHz
		1-2	1-2	2-3	124MHz

Note: Use 8ns or faster SDRAM modules (PC100 compliant) when SDRAM is set to run at the frequency of 95/100 MHz.

Step 6. DRAM Module Installation

This Motherboard supports two strips of 72-pin 5V FPM/EDO DRAM (SIMM) from 4 to 64 MB and two strips 168-pin 3.3V/5V Unbuffered DIMM modules from 8 to 256 MB. The Motherboard requires SIMM modules of at least 70ns access time.



This Motherboard supports both EDO and SDRAM types of memory modules.



Note: Do not install EDO type of DIMM modules if you already use SDRAM in any DIMM bank.

● **MEMORY CONFIGURATION**

This Motherboard features 2 x DIMM Banks for 168-pin 3.3V unbuffered DIMM modules; 2 x SIMM Banks for 72-pin. Your board comes with one SIMM Bank (2 modules) and two DIMM sockets, providing support for up to 512MB of main memory using DIMM modules from 8MB to 256MB. For 66MHz host bus CPUs use

12ns or faster DIMM modules; for 83MHz host bus CPUs use 8ns modules.

Memory Configuration Table

MEMORY CONFIGURATION	SIMM Bank	DIMM Banks	
	Bank 1,2	DIMM 1	DIMM 2
RAM Type	FPM/EDO/BEDO	EDO/SDRAM	EDO/SDRAM
Single RAM Module Size (MB)	4/8/16/32/64	8/16/32/64/128/256	8/16/32/64/128/256

Note: 1. You must install two SIMM modules to complete the SIMM Bank

2. Do not use FPM or EDO type of SIMM/DIMM if you already use SDRAM.

3. Do not install SIMM Bank and DIMM 1 at the same time.

Step 7. IDE Device Installation (HDD, CD-ROM)

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

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

This Motherboard can support up to four HDDs.

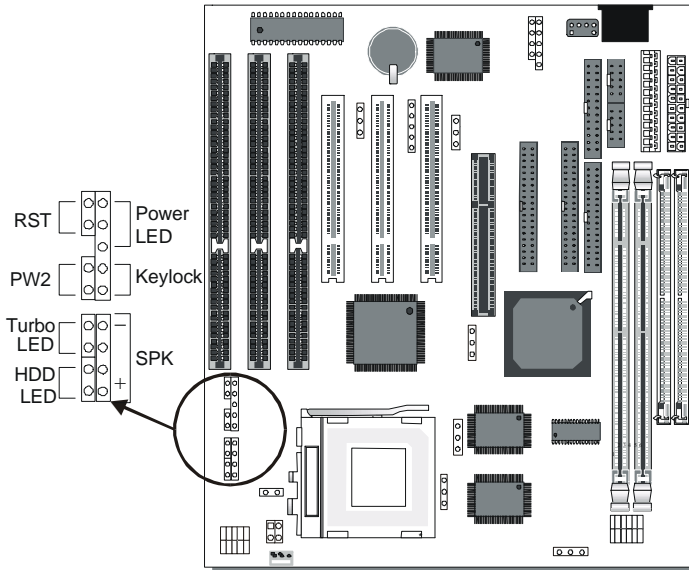
Step 8. Floppy Drive Installation

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

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

This Motherboard can support up to 2 floppy drives.

Step 9. Front Panel Connections



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

1. Power LED & KeyLock

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

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

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

2. Reset

Plug the Reset push-button cable into the 2-pin Reset connector 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 connector on the Motherboard.

4. Turbo LED

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

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

5. IDE LED

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

6. ATX Power On/Off Switch

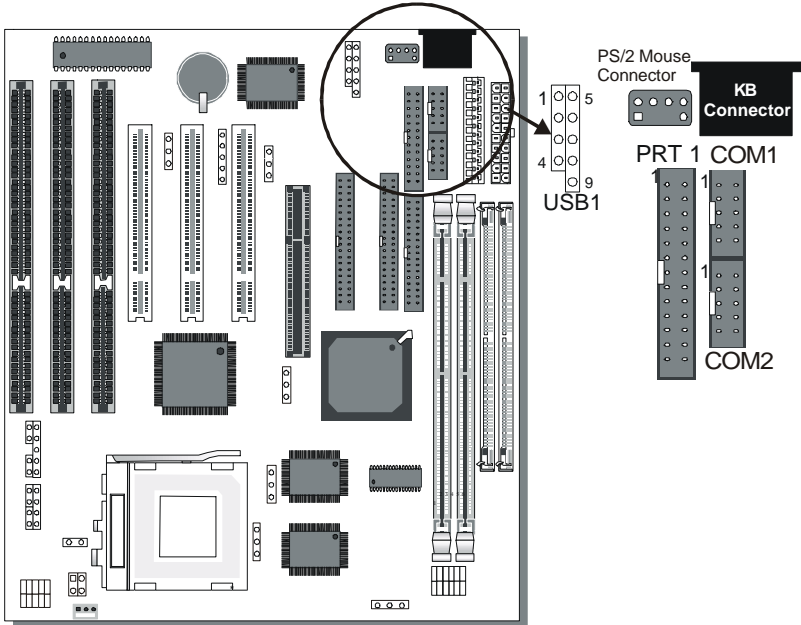
Attach the 2-pin momentary type switch to the PWRBT connector for turning On or Off your ATX power supply.

Step 10. External Peripherals Connections

External devices such as the keyboard, printer, PS/2 mouse, modem, USB can be connected to the Motherboard. Normally, you can not plug your devices directly onto the Motherboard, except for the keyboard that plugs directly into the back panel KB connector. For other parallel (PRT1) and serial devices (COM1, COM2), first install the external connectors that come with your Motherboard on the computer case, then plug the other end of the flat cable to their respective connectors.

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

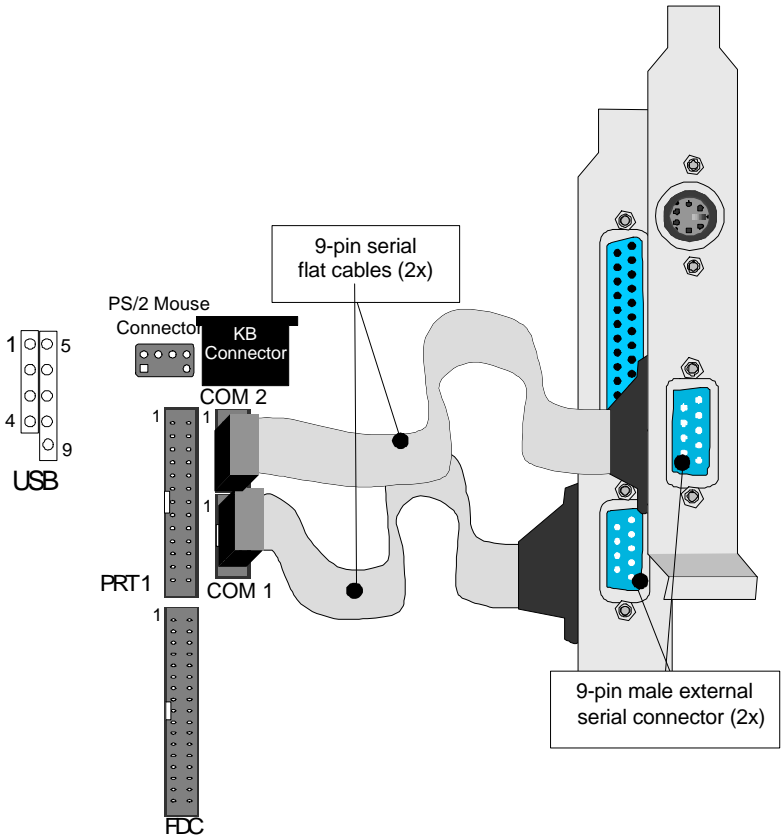
When connecting an external device, use the following figure to locate and identify which back panel connector to plug the device or flat cable to.



1. Serial Ports COM1/COM2

External Devices that use the COM ports include serial mice and modems. The COM port connectors are located on 2 separate brackets panels, as shown on the figure below. Please plug their respective 10 pin flat cable connectors into the COM1 and COM 2 serial port connectors on the Motherboard.

The bracket panels should be fixed to one of the slots at the back of the computer case using a screw, after having finished this you can plug any serial device into the back panel connectors.

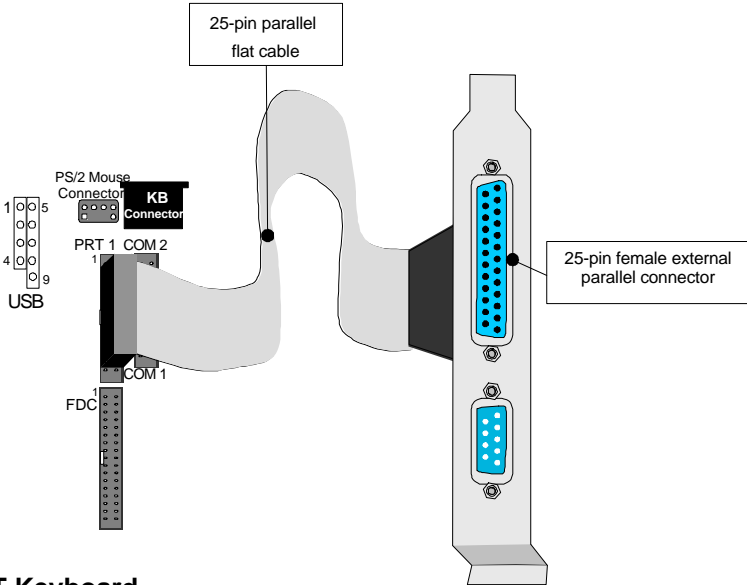


Parallel Port PRT1

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

Your Motherboard comes with one 25-pin female external parallel connector with 25-pin flat cable.

Plug the 25-pin end of the flat cable into the PRT1 parallel connector on the Motherboard, as shown in the figure below, then fix the bracket to one of the slots at the back of the computer case using a screw. After having finished this you can plug any parallel device into the back panel connectors.



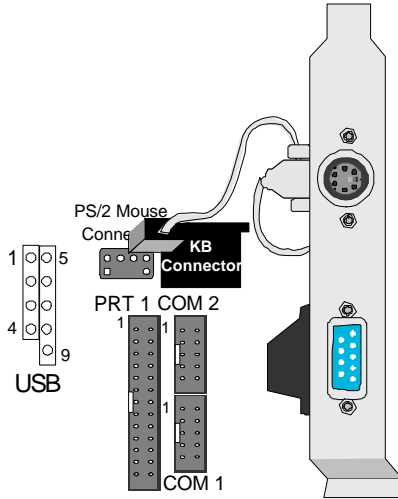
AT Keyboard

Plug the keyboard jack directly into the 5-pin female AT keyboard connector located at the rear panel of the Motherboard.



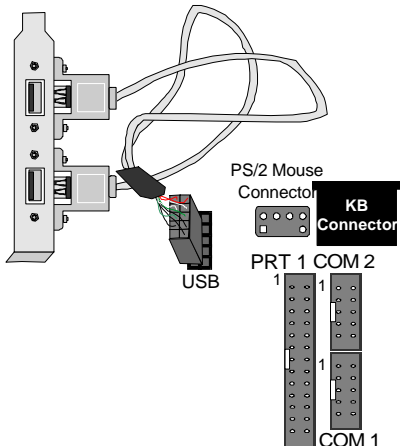
PS/2 Mouse

Attach the mouse cable to the 6-pin male PS/2 mouse connector on the Motherboard to enable PS/2 mouse function.



Universal Serial Bus (USB)

This Motherboard provides a dual-row 10-pin header (one pin is empty) to support two USB ports for your additional devices. Attach the USB cable (**Optional**) to this header as shown in the diagram below. The USB cable has two USB ports mounted on a bracket.

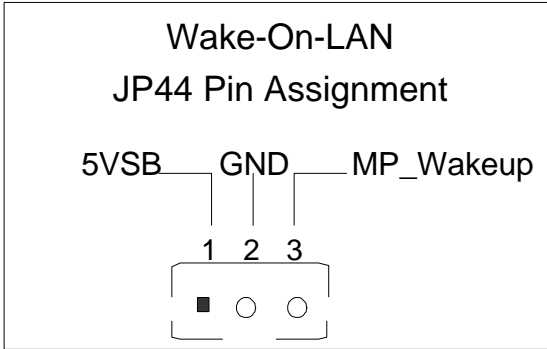


Step 11. Others Connector

1. Wake-On-LAN (WOL)

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

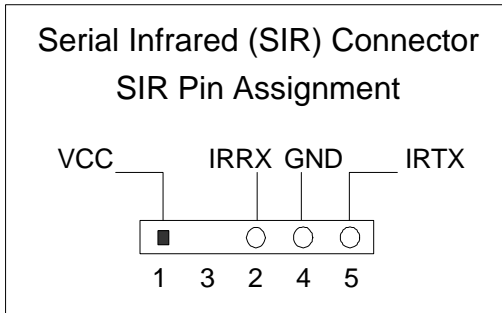
Please install according to the following pin assignment:



2. Infrared (IR)

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

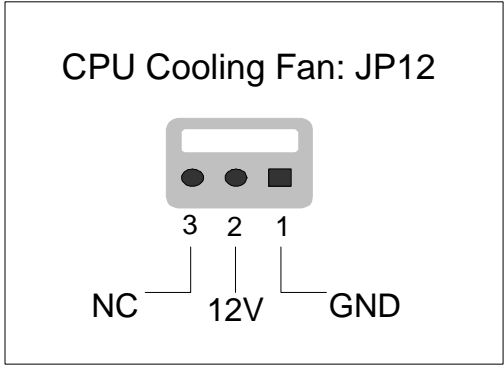
Please install according to the following pin assignment:



Step 12. CPU Cooling Fan Installation

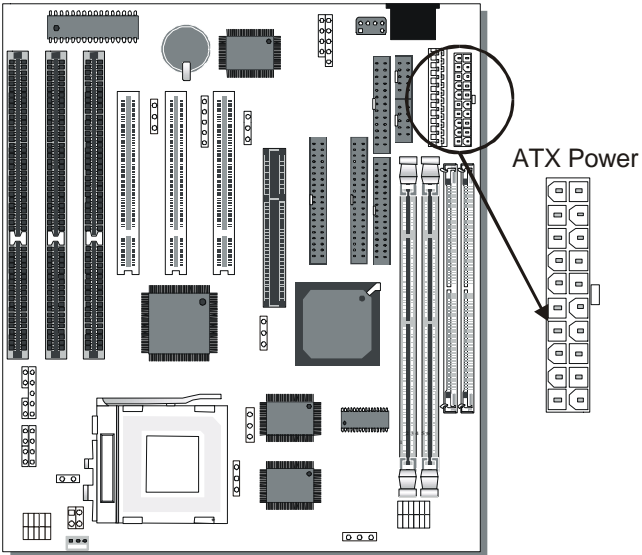
After you have seated the CPU cooling fan properly on the processor, attach the 3-pin fan cable to the JP12 connector on the Motherboard.

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



Step 13. ATX Power Supply

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





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

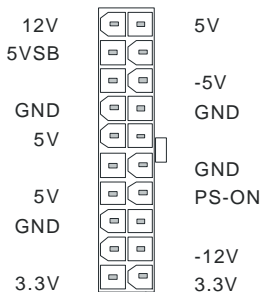
Turn off the power supply and unplug the power cord of the ATX power supply before connecting to ATX PW connector.

The Motherboard requires a power supply with at least 200 Watts and a "power good" signal. Make sure the ATX power supply can take at least 10 mA mp* 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 mAmp 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.**

Step 14. AT Power Supply

If you are using AT power, plug the dual 6-pin headers from the power directly into the 12-pin male AT Power connector on the Motherboard. Make sure the black leads of the 6-pin AT power headers are in the center.

Step 15. CMOS Clearing (JP5)



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

CMOS Clearing	Clear CMOS Data	Retain CMOS Data
JP5 Setting	Short pin 2-3 for a few seconds to clear the CMOS  1 2 3	Short pin 1-2 to retain new settings  1 2 3
Note: You must unplug the ATX power cable from the ATX power connector when performing the CMOS Clear operation.		

Step 16. Select the CPU Burst Mode (JP22)

There are two types of CPU burst modes according to manufacturer design:

- Interleave Burst (CPU: Intel P54C/P55C, AMD K5/K6/K6-2/K6-III, IDT X86 CPU, Rise mP6)
- Linear Burst (CPU: Cyrix 6x86/L/MX/MII)

CPU Burst Mode	Interleave	Linear
	Intel® P54C/P55C AMD™K5/K6/K6-2/K6-III, IDT X86 CPU, Rise mP6	Cyrix™6x86/L/MX/MII
JP22 Setting	When using Intel or AMD CPUs.  1 2 3	When using Cyrix type of CPU.  1 2 3

If you are using a Cyrix™6x86/L/MX/M II series CPU, set the burst mode to Linear by shorting pin 1-2 on jumper JP22, and follow the following steps to select the correct Linear burst mode in BIOS:

1. During the boot-up initial sequence, press the [Delete] key to enter the BIOS setup menu.
2. Select the [CHIPSET FEATURES SETUP] section in BIOS.
3. In the [CHIPSET FEATURES SETUP] sub-menu, set the [Linear Burst] field to [Enabled].
4. Press [Esc] to return to the BIOS main menu.
5. Then choose [Save & Exit Setup] to re-boot your computer.

Step 17. 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)

Step 18. CACHE CONFIGURATION

This Motherboard has a built-in 512KB/1MB Level 2 Pipelined Burst cache onboard to improve the system performance.

The cache size and RAM locations are specified as follows:

Cache Size	Cache RAM	TAG RAM	Cacheable Range
1 MB	64K x 64 on U23,U16	32K x 8 on U18	WT: 256 MB WB: 128MB
512 KB	64K x 64 on U23	32K x 8 on U18	WT: 128 MB WB: 64 MB

Step 19. Power On

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

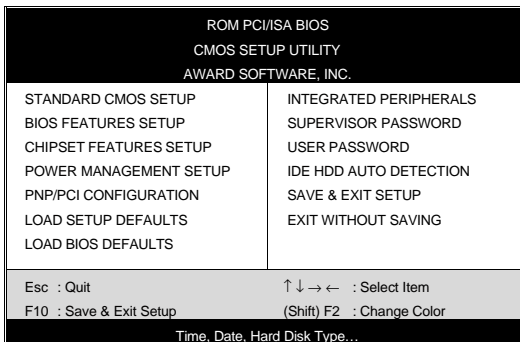
1. Turn the power on
2. To enter the BIOS Setup Utility, press the key while the system is performing the diagnostic checks,



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.

3. The BIOS Setup screen appears:



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

Chapter 3

BIOS SETUP UTILITY

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

To enter the Award BIOS program's Main Menu:

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

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

Selecting items

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

Modifying selected items

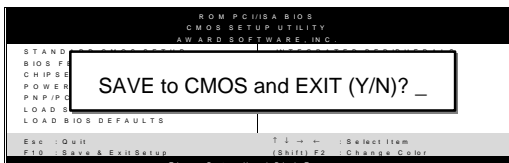
- Use the [Up]/[Down] keys to modify values within the selected fields. Some fields let you enter values directly.

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

Function	Command	Description
F1	Help	Gives the list of options available for each item.
Shift F2	Color	Change the color of the display window.
F5	Old values	Restore the old values. These are the values that the user started the current session with.
F6	Load BIOS Defaults	Loads all options with the BIOS Setup default values.
F7	Load Setup Defaults	Loads all options with the Power-On default values.
F10	Save & Exit Setup	Saves your changes and reboots the system.
[Esc]	Quit	Lets you return at anytime and from any location to the Main Menu.

SAVE AND EXIT SETUP

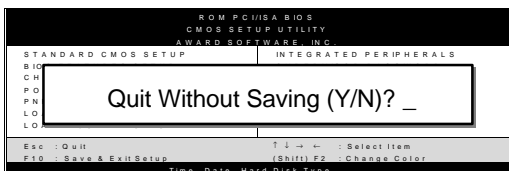
Select the [SAVE & EXIT SETUP] option from the Main Menu to save data to CMOS and exit the setup utility. This option saves all your changes and causes the system to reboot.



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

EXIT WITHOUT SAVING

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



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

3-1 STANDARD CMOS SETUP

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

ROM PCI/ISA BIOS									
STANDARD CMOS SETUP									
AWARD SOFTWARE, INC.									
Date (mm:dd:yy)		: Fri, May 29 1998							
Time (hh:mm:ss)		: 9 : 42 : 43							
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE	
Primary Master	: AUTO	0	0	0	0	0	0	0	AUTO
Primary Slave	: None	0	0	0	0	0	0	0	----
Secondary Master	: None	0	0	0	0	0	0	0	----
Secondary Slave	: None	0	0	0	0	0	0	0	----
Drive A : 1.44M, 3.5 in.					Base Memory: 640K				
Drive B : None					Extended Memory: 3328K				
Floppy 3 Mode Support : Disabled					Other Memory: 128K				
Video : EGA/VGA					Total Memory: 4096K				
Halt On : All Errors									
Esc	: Quit	↑ ↓ → ←	: Select Item		PU/PD/+/-	: Modify			
F1	: Help	(Shift) F2	: Change Color		F3	: Toggle Calendar			

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

3-1.1 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

3-1.2 Hard Disks Type & Mode

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

Primary (Secondary) Master & Slave	Setting	Description	Note
Type	Auto	BIOS detects hard disk type automatically.	Default
	1-47	Selects standard hard disk type.	
	User	User defines the type of hard disk.	
Mode	Auto	BIOS detects hard disk mode automatically.	Default
	Normal	Normal IDE hard disk	<528MB
	LBA	Enhanced IDE hard disk	>528MB
	Large	Large IDE hard disk (for certain hard disk)	



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

3-1.3 Floppy Drives

Floppy Drives	Setting	Description	Note
Drives A & B	360KB, 5.25 in.		
	1.2MB, 5.25 in.		
	720KB, 3.5 in.		
	1.44MB, 3.5 in.		Default
	2.88MB, 3.5 in.		
	None	Not installed	
Floppy 3-Mode Support	Disabled		Default
	Drive A	Supports 3-mode floppy diskette: 740KB/1.25MB/1.44MB on selected disk drive.	Special disk drive commonly used in Japan
	Drive B		
Both			

3-1.4 Video

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

3-1.5 Halt On

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

3-2 BIOS FEATURES SETUP

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

ROM PCI/ISA BIOS	
BIOS FEATURES SETUP	
AWARD SOFTWARE, INC.	
Virus Warning	: Disabled
CPU Internal Cache	: Enabled
External Cache	: Enabled
Quick Power On Self Test	: Enabled
Boot Sequence	: A, C, SCSI
Swap Floppy Drive	: Disabled
Boot Up NumLock Status	: On
Gate A20 Option	: Fast
Memory Parity /ECC Check	: Enabled
Typematic Rate Setting	: Disabled
Typematic Rate (Chars/Sec)	: 6
Typematic Delay (Msec)	: 250
Security Option	: Setup
IDE Second Channel Control	: Enable
PCI/VGA Palette Snoop	: Disabled
OS Select For DRAM > 64MB	: Non-OS2
Report No FDD For WIN 95	: No
Video BIOS Shadow	: Enabled
C8000-CBFFF Shadow	: Disabled
CC000-CFFFF Shadow	: Disabled
D0000-D3FFF Shadow	: Disabled
D4000-D7FFF Shadow	: Disabled
D8000-DBFFF Shadow	: Disabled
DC000-DFFFF Shadow	: Disabled
ESC	: Quit
F1	: Help
F5	: Old Values (Shift) F2 : Color
F6	: Load BIOS Defaults
F7	: Load Setup Defaults
↑ ↓ → ←	: Select Item
PU/PD/+/-	: Modify

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

3-2.1 Virus Warning

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

3-2.2 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

3-2.3 System Boot Control Settings

System Boot Control Settings	Setting	Description	Note
Quick Power On Self Test	Disabled		
	Enabled	Provides a fast POTS at boot-up.	Default
Boot Sequence	A, C, SCSI	Choose the boot sequence adapted to your needs, for example: ● [A, C, SCSI] means the BIOS will look for an operating system first in drive A, then in drive C, and eventually in SCSI device.	
	C, A, SCSI		
	C, CD-ROM, A		
	CD-ROM, C, A		
	D, A, SCSI		
	E, A, SCSI		
	F, A, SCSI		
	SCSI, A, C		
	SCSI, C, A		
	C only		
LS/ZIP, C			
Swap Floppy Drive	Disabled		Default
	Enabled	Changes the sequence of A and B drives.	
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.	

System Boot Control Settings (continued)

System Boot Control Settings	Setting	Description	Note
Gate A20 Option	Normal		
	Fast	Allows RAM access above 1MB using the fast gate A20 line.	Default
Memory Parity Check/ ECC Check	Enabled	This allows to perform a redundancy check on the parity bit in the data strings. This method is used for error detection when the parity is not found.	Default
	Disabled		

3-2.4 Typematic Settings

Typematic Settings	Setting	Description	Note
Typematic Rate Setting	Disabled		Default
	Enabled	Enables to adjust the keystroke repeat rate.	
The following [Typematic Rate] and [Typematic Delay] fields are active only if [Typematic Rate Setting] is set to [Enabled]			
Typematic Rate (Chars/Sec)	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 (Msec)	250 (msec)	Choose how long after you press a key down the character begins repeating.	Default
	500 (msec)		
	750 (msec)		
	1000 (msec)		

3-2.5 Other Control Options

Other Control Options	Setting	Description	Note
Security Option	Setup	Use this feature to prevent Unauthorized system boot-up or use of BIOS Setup. "Setup", If a password is set, the password prompt only appears if you attempt to enter the Setup program.	Default
	System	Each time the system is booted the password prompt appears.	
IDE Second Channel Control	Disabled	Turn off the on-board IDE.	
	Enabled	Use a PS/2 mouse.	Default
PCI/VGA Palette Snoop	Disabled		Default
	Enabled	The color of the monitor may be altered when using an MPEG card. Enable this option to restore the monitor's normal color.	
OS Select for DRAM>64MB	OS2	When using an OS2 operating system.	
	Non-OS2	When using another, non-OS2 operating system.	Default
Report No FDD For WIN 95	No	Windows will reserve INT 6 for your FDD, whether it is Disabled or not.	Default
	Yes	Windows will release IRQ line 6 (normally used by the Floppy Disk Drive) after you disable you on-board FDD and set this field to [Yes].	

Other Control Options (Continued)

Other Control Options	Setting	Description	Note
Video or Adapter BIOS Shadow	Disabled		
	Enabled	The BIOS is shadowed in a 16K segment if it is enabled and if it has BIOS present. These 16 segments can be shadowed from ROM to RAM. BIOS shadow copies BIOS code from slower ROM to faster RAM. BIOS can then execute from RAM.	Default

3-3 CHIPSET FEATURES SETUP



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

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

ROM PCI/ISA BIOS CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.	
Bank 0/1 DRAM Timing	: FP/EDO/60ns
Bank 2/3 DRAM Timing	: FP/EDO/60ns
Bank 4/5 DRAMA Timing	: FP/EDO/60ns
DRAM Read Pipeline	: Enabled
Cache Rd+ CPU Wt Pipeline	: Disabled
Linear Burst	: Disabled
Video BIOS Cacheable	: Enabled
System BIOS Cacheable	: Enabled
Memory Hole At 15Mb Addr.	: Disabled
AGP Aperture Size	: 64M
AGP -2x Mode	: Disabled
On Chip USB	: Enable
USB Keyboard Support	: Disabled
Spread Spectrum Modulated	: Disabled
ESC : Quit ↑ ↓ → ← : Select Item F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift) F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	

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

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

CHIPSET FEATURES SETUP

CHIPSET FEATURES	Setting	Description	Note
Bank 0/1 DRAM Timing	FP/EDO	Use the default setting	Default
	70ns		
Bank 2/3 DRAM Timing	Normal	Choose DRAM Timing.	
	Medium		
Bank 4/5 DRAM Timing	Fast,		
	Turbo		
DRAM Read Pipeline	Disabled		
	Enabled	Enhances system performance	Default
Cache Rd+CPU Wt Pipeline	Disabled		
	Enabled	Enhances system performance	Default
Linear Burst	Disabled	Use the default setting	Default
	Enabled	Linear mode SRAM support for Cyrix type of CPU.	
Video BIOS Cacheable	Disabled		
	Enabled	The ROM area A0000-BFFFF is cacheable.	Default
System BIOS Cacheable	Disabled		
	Enabled	The ROM area F0000H-FFFFFFH is cacheable	Default
Memory Hole 15Mb Addr.	Disabled	Some interface cards will map their ROM address to this area.	Default
	Enabled		

CHIPSET FEATURES SETUP (Continued)

CHIPSET FEATURES	Setting	Description	Note
AGP Aperture Size	64M	AGP could use the DRAM as its video RAM. Choose the JDRAM size that you wish to allocate as video RAM.	Default
	4-256M		
AGP-2X Mode	Disabled		Default
	Enabled	Enable only if your AGP card supports 2x mode (faster)	
OnChip USB	Disabled		
	Enabled	Enable if you use a separate USB controller card	Default
USB Keyboard Support	Disabled		Default
	Enabled	Enabled if you use an USB Keyboard.	
Spread Spectrum Modulated	Disabled	Use the default setting	Default
	Enabled	When using Spread Spectrum Modulated 1.5% or 6% for FCC or DOC testing.	
	V	Show the current voltage	

3-4 POWER MANAGEMENT SETUP

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

ROM PCI/ISA BIOS			
POWER MANAGEMENT SETUP			
AWARD SOFTWARE, INC.			
ACPI function	: Disabled	Primary INTR	: ON
Power Management	: User Define	IRQ3 (COM2)	: Primary
PM Control by APM	: Yes	IRQ4 (COM1)	: Primary
Video Off Option	: Suspend ->Off	IRQ5 (LPT2)	: Primary
Video Off Method	: V/H SYNC+ Blank	IRQ6 (Floppy Disk)	: Primary
Modem Use IRQ	: 3	IRQ7 (LPT1)	: Primary
Sof-Off by PWR-BTTN	: Instant - Off	IRQ8 (RTC Alarm)	: Disabled
** PM Timers **		IRQ9 (IRQ2 Redir)	: Secondary
HDD Power Down	: Disabled	IRQ10 (Reserved)	: Secondary
Doze Mode	: Disabled	IRQ11 (Reserved)	: Secondary
Suspend Mode	: Disabled	IRQ12 (PS/2 Mouse)	: Primary
** PM Events **		IRQ13 (Coprocessor)	: Primary
VGA	: OFF	IRQ14 (Hard Disk)	: Primary
LPT & COM	: LPT/COM	IRQ15 (Reserved)	: Disabled
HDD & FDD	: ON	ESC : Quit ↑ ↓ → ← : Select Item F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift) F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	
DMA/ master	: OFF		
Modem Ring Resume	: Disabled		
RTC Alarm Resume	: Disabled		

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

3-4.1 Power Management Controls

Power Management Controls	Setting	Description	Note
ACPI function	Disabled		Default
	Enabled	Enabled if you use Windows 98 and want to use ACPI	
Power Management	User Define	Lets you define the HDD and system power down times.	
		Doze timer Standby timer Suspend timer	
	Min Saving	40 Min 40 Min 40 Min	
	Max Saving	20 Sec 20 Sec 20 Sec	
PM Control by APM	Yes	To use Advanced Power Management (APM) you must run [power.exe] under DOS V6.0 or later version.	Default
	No		
Video Off Option	Suspend ->Off	The monitor will be switched off in suspend mode,	Default
	All Modes ->Off	the monitor will be switched off in all power saving modes	
	Always On		
Video Off Method	V/H SYNC+Blank	Selects the method by which the monitor is blanked.	Default
	Blank screen		
	DPMS Supported		
Modem Use IRQ	3	Assigns an IRQ# to the modem device.	Default
	3-11, NA		
Soft-Off by PWRBTN	Instant - Off	Select the Power Button Mode. Instant – Off : One push off. Delay 4 Sec : Push for 4s to switch off.	Default
	Delay 4 Sec		

3-4.2 PM Timers

PM Timers	Setting	Description	Note
HDD Power Down	Disable		Default
	1-15Min	When the set time has elapsed, BIOS sends a command to the HDD to power down. This turns off the HDD motor.	Some older model HDDs may not support this advanced function.
The following [Doze Mode] field may be configured only if [Power Management] is set to [User Define]			
Doze Mode	Disable		Default
	10sec-1Hour	When the set time has elapsed, BIOS sends a command to the system to enter Doze Mode.	System clock drops to 33MHz.
The following [Suspend Mode] field may be configured only if [Power Management] is set to [User Define]			
Suspend Mode	Disable		Default
	10sec-1Hour	In Suspend mode, the CPU stops completely (no instructions are executed.)	Only an SL-Enhanced (or SMI) CPU can enter this mode.

3-4.3 PM Events

PM Events	Setting	Description	Note
VGA	ON	Enabled the power managemnet.	
	OFF		Default
LPT & COM	LPT/COM	Enabled the power management timer.	Default
	COM LPT NONE		
HDD & FDD	ON	Enabled the power management timers when the event is detected on the Hard Disk Drive and Floppy Disk Drive device.	Default
	OFF		
DMA/master	ON	The system will not have SIM signal until the master is finished while the master is working.	
	OFF		Default
Modem Ring Resume	Disabled	Only work when the computer is powered on. The system will resume active when modem is ringing.	Default
	Enabled	The system will not resume when modem is ringing.	
RTC Alarm Resume	Disabled	The system ignores the alarm.	Default
	Enabled	Set alarm to wake up the system either by the date (1-31) or time (hh:mm:ss), and if the date is set to 0, it means that the system will wake up by the alarm everyday.	
Primary INTR	ON	Use the default setting.	Default
	OFF		

PM Events (Continued)

PM Events	Setting	Description	Note
IRQ#	Primary	IRQ3(COM2), IRQ4(COM1), IRQ5(LPT2), IRQ6(Floppy Disk), IRQ7(LPT1), IRQ12(PS/2 mouse), IRQ13(Coprocessor), IRQ14(HardDisk)	
	Secondary	IRQ9(IRQ2 Redir), IRQ10(Reserved), IRQ11(Reserved)	
	Disabled	IRQ8 (RTC Alarm), IRQ15 (Reserved)	

3-5 PNP/PCI CONFIGURATION SETUP

This option sets the Motherboard's PCI Slots.

ROM PCI/ISA BIOS			
PNP/PCI CONFIGURATION SETUP			
AWARD SOFTWARE, INC.			
PNP OS Installed	: No	CPU to PCI Write Buffer	: Enabled
Resources Controlled By	: Manual	PCI Master Broken Timer	: Disabled
ACPI I/O Device Node	: Disabled	PCI IRQ Activated By	: Level
IRQ-3 assigned to	: Legacy ISA	Assign IRQ For USB	: Enabled
IRQ-4 assigned to	: Legacy ISA	Assign IRQ For VGA	: Enabled
IRQ-5 assigned to	: PCI/ISA PnP	Assign IRQ For ACPI	: IRQ10
IRQ-7 assigned to	: PCI/ISA PnP		
IRQ-9 assigned to	: PCI/ISA PnP		
IRQ-10 assigned to	: PCI/ISA PnP		
IRQ-11 assigned to	: PCI/ISA PnP		
IRQ-12 assigned to	: PCI/ISA PnP		
IRQ-14 assigned to	: PCI/ISA PnP		
IRQ-15 assigned to	: PCI/ISA PnP		
DMA-0 assigned to	: PCI/ISA PnP		
DMA-1 assigned to	: PCI/ISA PnP	ESC : Quit	↑ ↓ → ← : Select Item
DMA-3 assigned to	: PCI/ISA PnP	F1 : Help	PU/PD/+/- : Modify
DMA-5 assigned to	: PCI/ISA PnP	F5 : Old Values	(Shift) F2 : Color
DMA-6 assigned to	: PCI/ISA PnP	F6 : Load BIOS Defaults	
DMA-7 assigned to	: PCI/ISA PnP	F7 : Load Setup Defaults	



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

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

3-5.1 PNP/PCI Configuration Controls

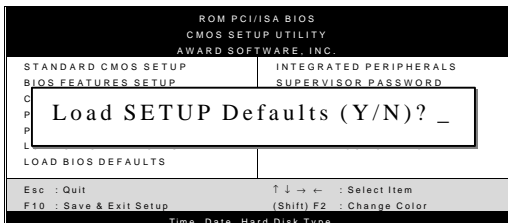
PNP/PCI Controls	Setting	Description	Note
PNP OS Installed	Yes	Use the default setting	Disabled
	NO		
Resources Controlled By	Manual	BIOS does not manage PCI/ISA PnP card IRQ assignment. Requires to assign IRQ-# and DMA-# to PCI or ISA PnP manually. IRQ-3,4,5,7,9,10,11,12,14,15 assigned to: _ DMA-0,1,3,5,6,7 assigned to: _	
	Auto	The Plug-and-Play BIOS auto manages PCI/ISA PnP card IRQ assignment automatically.	Recommended
Reset Configuration Data	Disabled	Retain PnP configuration data in BIOS.	Default
	Enabled	Reset PnP configuration data in BIOS.	
ACPI I/O Device Node	Disabled	Use the default setting	Default
	Enabled		

3-5.2 PNP/PCI Configuration Setup

PNP/PCI Setup	Setting	Description	Note
If [Resources Controlled By] is set to [Manual]			
IRQ-# and DMA-# assigned to:	PCI/ISA PnP	Choose IRQ-# and DMA-# assigned to PCI/ISA PnP card.	IRQ-3,4,5,7,9,10,11,12,14,15 DMA-0,1,3,5,6,7
	Legacy ISA	Choose IRQ-# and DMA-# assigned to Legacy ISA card.	IRQ-3,4,5,7,9,10,11,12,14,15 DMA-0,1,3,5,6,7
CPU to PCI write Buffer	Disabled		
	Enabled	Enable buffering of CPU writes to the PCI bus, the CPU will not have to wait.	Default
PCI Master Broken Timer	Disabled		Default
	Enabled	Enable to allow for slow PCI masters.	
Assign IRQ For USB	Disabled		
	Enabled	Enable RSB IRQ	Default
Assign IRQ For VGA	Disabled		
	Enabled	Enable if your VGA card needs an interrupt.	Default
Assign IRQ For ACPI	IRQ10	If you enable ACPI on your system, set this item to a free interrupt for ACPI to use.	Default
	IRQ11		
	IRQ9		

3-6 LOAD SETUP DEFAULTS

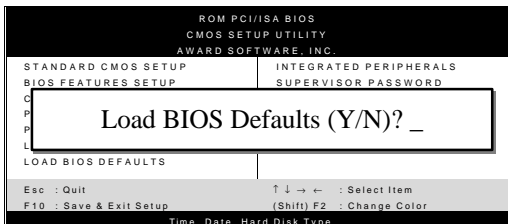
Select the [LOAD SETUP DEFAULTS] option from the Main Menu to load the system values you have previously saved. This option is recommended if you need to reset the system setup and to retrieve the old values.



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

3-7 LOAD BIOS DEFAULTS

Select the [LOAD BIOS DEFAULTS] option from the Main Menu to load the system default values. BIOS Defaults values are adjusted to yield high performance.



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 problems after loading BIOS DEFAULTS, please load the SETUP DEFAULTS for stable performance.

3-8 INTEGRATED PERIPHERALS



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

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

The following screen shows default settings.

ROM PCI/ISA BIOS			
INTEGRATED PERIPHERALS			
AWARD SOFTWARE, INC.			
OnChip IDE First Channel	: Enabled	Onboard Parallel Port	: 378
OnChip IDE Second Channel	: Enabled	Parallel Port Mode	: Normal
IDE Prefetch Mode	: Enabled	ECP Mode Use DMA	: 3
IDE HDD Block Mode	: Enabled	Parallel Port EPP Type	: EPP1.9
IDE Primary Master PIO	: Auto		
IDE Primary Slave PIO	: Auto		
IDE Secondary Master PIO	: Auto		
IDE Secondary Slave PIO	: Auto		
IDE Primary Master UDMA	: Auto		
IDE Primary Slave UDMA	: Auto		
IDE Secondary Master UDMA	: Auto		
IDE Secondary Slave UDMA	: Auto		
Init Display First	: PCI Slot	ESC : Quit	↑ ↓ → ← : Select Item
Onboard FDC Controller	: Enabled	F1 : Help	PU/PD/+/- : Modify
Onboard UART 1	: 3F8/IRQ4	F5 : Old Values	(Shift) F2 : Color
Onboard UART 2	: 2F8/IRQ3	F6 : Load BIOS Defaults	
Onboard UART 2 Mode	: Standard	F7 : Load Setup Defaults	

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

3-8.1 IDE Device Controls

IDE Controls	Setting	Description	Note
Onchip IDE Primary Channel	Disabled	Use the On-board IDE Channel	Default
	Enabled		
Onchip IDE Second Channel	Disabled	Turn off the On-board IDE Channel	Default
	Enabled		
IDE Prefetch Mode	Disabled	Enable to enhance system performance.	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		
The following fields may be configured only if [Internal PCI/IDE] is set to [Both], [Primary], or [Secondary].			
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	Default
	Auto	For better performance and stability, we suggest you use the Auto setting to set the HDD control timing.	
	IDE ➤ Primary Master UDMA ➤ Primary Slave UDMA ➤ Secondary Master UDMA ➤ Secondary Slave UDMA	Disabled	Select Auto to enable Ultra DMA Mode support.
Auto			
The following field may be configured only if [Internal PCI/IDE] is set to [Both], [Primary], or [Secondary].			
Init Display First	PCI Slot	Select the VGA card that connects to the primary monitor.	Default
	AGP		

3-8.2 FDC Controls

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

3-8.3 Onboard Serial Ports

Onboard Serial Ports	Setting	Description	Note
Onboard UART 1 Onboard UART 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	Default (port 2)
	3E8/IRQ4 2E8/IRQ3	except for Disabled or Auto.	
	Auto		
Onboard UART 2 Mode	Standard	Supports a serial infrared IrDA.	Default
	HPSIR	Supports HP serial infrared interface format.	
	ASKIR	Supports a Sharp serial interface format.	

3-8.4 Onboard Parallel Ports

IR Pins Controls	Setting	Description	Note
IR Duplex mode	Half	Select the IR mode your IR module supports	Default
	Full		
Use IR Pins	IR-RX2TX2		Default
	IR-RX TX		

3-8.5 Onboard Parallel Ports

Onboard Parallel Ports	Setting	Description	Note
Onboard Parallel Port	378	Choose the printer I/O address.	Default
	Disabled		
	3BC		
	278		
Parallel Port Mode	ECP + EPP	The mode depends on your external device that connects to this port.	
	Normal		Default
	EPP		
	ECP		
If [Parallel Port Mode] is set to [ECP] or [ECP+EPP].			
ECP Mode Use DMA	3	Choose DMA3	Default
	1	Choose DMA1	
If [Parallel Port Mode] is set to [EPP] or [ECP+EPP].			
Parallel Port EPP Type (EPP Version)	EPP1.9	Choose EPP Ver. 1.9	Default
	EPP1.7	Choose EPP Ver. 1.7	

3-9 SUPERVISOR PASSWORD

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

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

2. Choose [SUPERVISOR PASSWORD] from the Main Menu and press [Enter]. The following prompt appear:

Enter Password:



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



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

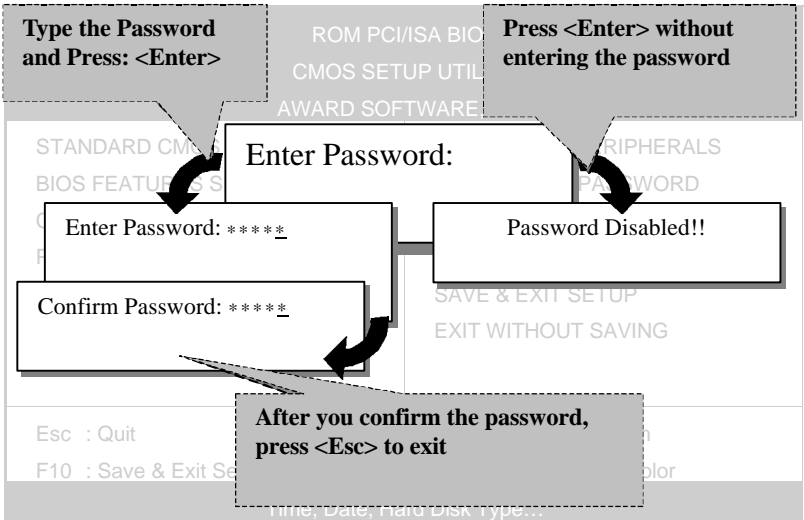
Password Disabled!!

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

Confirm Password:

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

This diagram outlines the password selection procedure:



3-10 USER PASSWORD

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

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

3-11 IDE HDD AUTO DETECTION

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

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

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

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

ESC : Skip _____



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

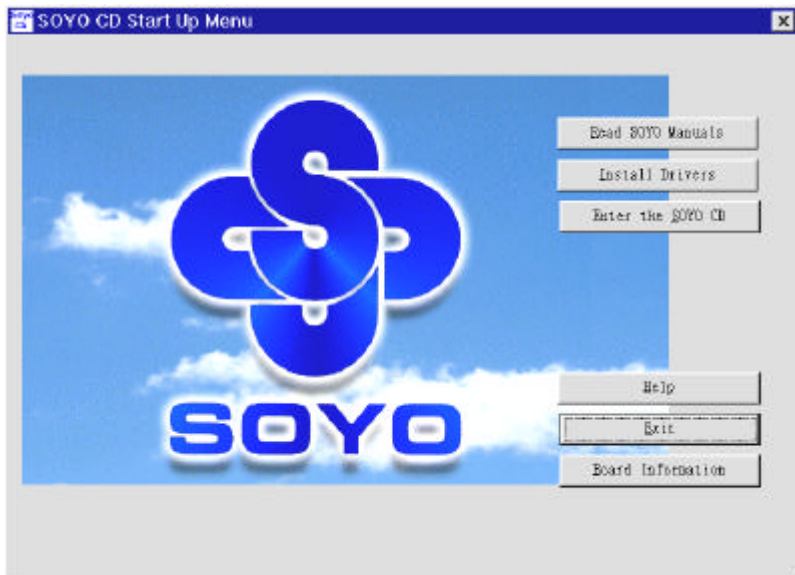
Chapter 4

DRIVERS INSTALLATION

Your SY-5EHM/5EH5 V1.0 Super 7™ Motherboard comes with a CD-ROM labeled "SOYO CD." The SOYO CD contains the user's manual file for your new Motherboard, the drivers software available for installation, and a database in HTML format with information on SOYO Motherboards and other products.

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

display as shown below.



The SOYO CD Start

Motherboard you own and displays the corresponding model name.

Step 2. Install Drivers and Utilities

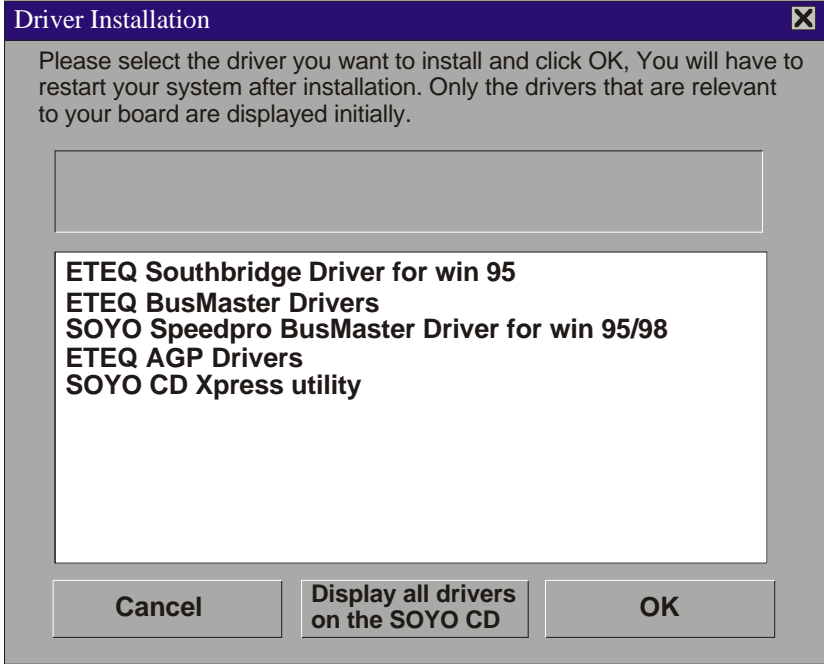
The following describes the best way of installing Windows 95 or Windows 98 on your 5EHM/5EH5 V1.0 Motherboard:

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

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

- Install Windows 95/98
- If you installed Windows 95 you will now need to upgrade your USB driver by running the following program on your Windows CD:
 - Win95/OSR2/Usbsupp/USBsupp.exe
 - After installation of windows, you will need to install the VIA drivers. Follow the instruction below.

Click the **Enter SOYO CD** button to display the list of drivers that can be installed on your Motherboard. The start-up program displays the drivers available for the 5EHM/5EH5 V1.0 and the Windows version you use. For Windows 95 five drivers will be listed (see 'Driver Installation Menu' below), for Windows 98 also five drivers will be listed (the Southbridge drivers will be replaced by the IRQ remapping utility).



(Driver Installation Menu)

A short description of all available drivers follows:

➤ **ETEQ Southbridge Driver for Win 95**

Windows 95 may not recognize the southbridge of your ETEQ chipset, first install these drivers.

➤ **ETEQ IRQ remapping utility**

To make sure that IRQs are handled correctly by Windows 98, run this utility. (Run this utility BEFORE installing any drivers)

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

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

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

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

➤ **ETEQ AGP Drivers**

The ETEQ VxD driver for Windows 95/98 must be installed to make use of your AGP card. (Win95: Make sure that the Southbridge ETEQ ACPI drivers are installed FIRST)

➤ **SOYO CD Xpress Utility**

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

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

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



Install the drivers in sequence, starting with the FIRST driver.

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

Step 3. Enter the SOYO CD

Select which driver you want to install and click **OK**, or click **Cancel** to return to the main menu. When the installation program of a driver starts running the SOYO-CD will exit. After finishing the installation, restart the SOYO-CD and install the next driver.

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.