



SY-5EHM/5EH5 V1.0/V1.1

Super 7™ Motherboard

Quick Start Guide

Introduction

Installation

Quick BIOS Setup

The SOYO CD

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

100% POST CONSUMER
RECYCLED PAPER

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

5EHM/5EH5 V1.x Super 7™ Motherboard

Pentium® Class CPU (66&100MHz) supported
ETE82C663 PCI/AGP Motherboard
AT Form Factor

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About This Guide:

This Quick Start 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.

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

5EHM/5EH5 V1.x Serial - Version 1.4 - Edition: August 1999

* These specifications are subject to change without notice

1 Introduction

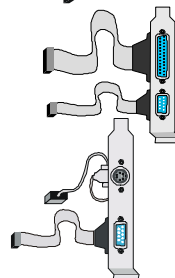
Congratulations on your purchase of the **5EHM/5EH5 V1.x** Super 7™ Motherboard. This *Quick Start Guide* describes the steps for installing and setting up your new Motherboard.

This guide is designed for all users to provide the basic steps of Motherboard setting and operation. For further information, please refer to *5EHM/5EH5 V1.x Motherboard User's Guide and Technical Reference* online manual included on the CD-ROM packed with your Motherboard.

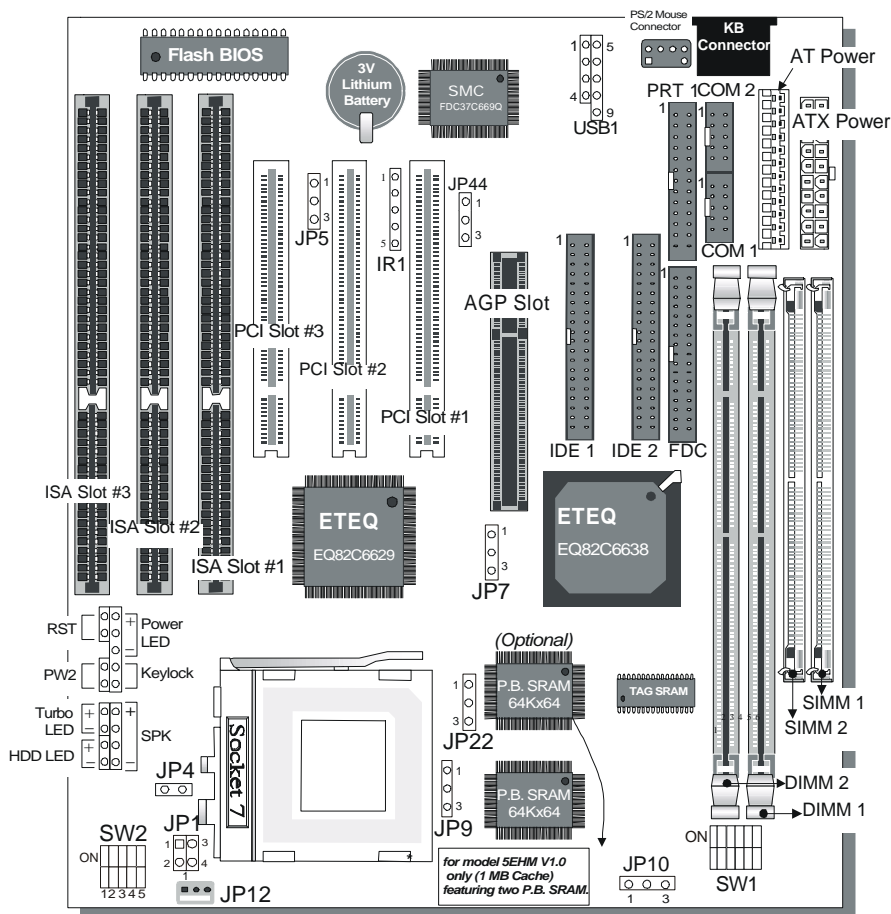
Unpacking

When unpacking the Motherboard, check for the following items:

- ◆ The 5EHM/5EH5 V1.x Super 7™ Motherboard
- ◆ This Quick Start Guide
- ◆ The Installation CD-ROM
- ◆ SOYO 3-in-1 Bonus Pack CD-ROM (Norton AntiVirus, Ghost and Virtual Drive)
- ◆ One IDE Device Flat Cable
- ◆ One Floppy Disk Drive Flat Cable
- ◆ One dual 25-pin parallel with 25-pin flat cable and 9-pin serial with 9-pin flat cable external connector
- ◆ One dual 6-pin PS/2 mouse connector with 6-pin flat cable and 9-pin serial connector with 9-pin flat cable



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



Key Features

- 100MHz AGP Super 7™ platform
- 512KB/1MByte L2 cache
- Supports CPU voltage from 2.0V to 3.5V in 0.1V increments
- PC98, ACPI, Ultra DMA/33
- Power-on by modem or alarm
- Supports AT or ATX power connector
- Supports Wake-On-LAN (WOL)
- Fan off in suspend mode
- 3 x 32-bit bus mastering PCI slots
- 3 x 16-bit ISA slots
- 1 x IrDA port
- Supports multiple-boot function
- Y2K Compliant

2 Installation



To avoid damage to your Motherboard, follow these simple rules while handling this equipment:

- 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 it 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.

Follow the directions in this section designed to guide you through a quick and correct installation of your new **5EHM/5EH5 V1.x** Super 7™ Motherboard. For detailed information, please refer to *5EHM/5EH5 V1.x Motherboard User's guide and Technical Reference* online manual included on the CD-ROM packed with your Motherboard.

PREPARATIONS

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

- ◆ Pentium® Class processor with cooling fan
- ◆ SDRAM module
- ◆ Computer case and chassis with adequate power supply unit
- ◆ Monitor
- ◆ Keyboard
- ◆ Pointing Device (PS/2 mouse)
- ◆ VGA Card
- ◆ Sound Card (optional)
- ◆ Speaker(s) (optional)
- ◆ Disk Drives: HDD, CD-ROM, Floppy drive ...
- ◆ External Peripherals: Printer, Plotter, and Modem- (optional)

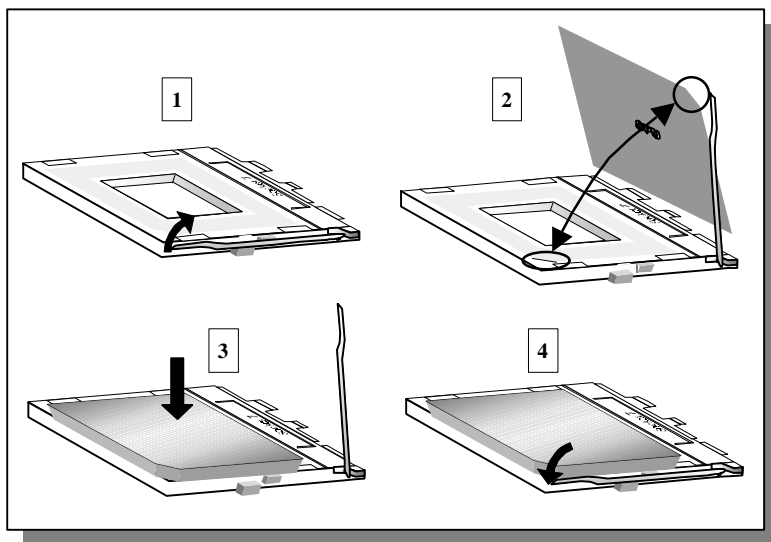
Install the Motherboard

Follow the steps below in order to perform the installation of your new **5EHM/5EH5 V1.x** Super 7™ Motherboard.

Step 1. Install the CPU

To mount the Pentium® processor that you have purchased separately, follow these instructions.

CPU Mount Procedure



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 (JP12) on the Motherboard. *The fan is a key component that will ensure system stability. The fan prevents overheating, therefore prolonging the life of your CPU.*

Step 2. Set SW2 ,JP1 for CPU Voltage

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

Please verify the correct voltage settings with your dealer before installation. Use the following table to set SW2, JP1 to the proper voltage value according to the specifications marked on your CPU:

| Processor | Voltage | Voltage Setting: SW2 | | | | | JP1 | |
|--|--|----------------------|-----|-----|-----|-----|-------|-------|
| | | 1 | 2 | 3 | 4 | 5 | 1-2 | 3-4 |
| AMD K5 PR100 AMD K5 PR133 AMD K5 PR166 | 3.52 V | on | on | on | on | off | open | open |
| The AMD K5 and K6 come in several versions with different voltages. Please verify the correct voltage settings with your dealer before installation. The most common K5 runs on 3.52V. | | | | | | | | |
| AMD K6 166 AMD K6 200 | 2.9 V | on | off | off | on | off | close | close |
| AMD K6 233 | 3.2 V | off | off | on | on | off | close | close |
| 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 | 2.2 V | off | on | off | off | off | close | close |
| AMD K6-2 450 | 2.2 V | off | on | off | off | off | close | close |
| AMD K6-2 475 | 2.4 V | off | off | on | off | off | close | close |
| AMD K6-2 500 AMD K6-III 400 AMD K6-III 450 | The AMD K6-2 and K6-III comes in several versions with different voltages. Please ask your dealer for the correct voltage. | | | | | | | |
| Cyrix 6x86(L) PR166+ Cyrix 6x86(L) PR200+ | The Cyrix 6X86(L) and M 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 MII 300 Cyrix MII 333 Cyrix MII 350 Cyrix MII 366 | 2.9 V | on | off | off | on | off | close | close |
| Intel P54C P100 Intel P54C P133 Intel P54C P166 Intel P54C P200 | 3.3 V | on | off | on | on | off | open | open |
| The P54C (standard Pentium®) comes in several versions with different voltages. Please ask your dealer for the correct voltage. The most common P54C runs on 3.3V. | | | | | | | | |
| Intel P55C P166 Intel P55C P200 | 2.8 V | off | off | off | on | off | close | close |
| Intel P55C P233 | The P55C (MMX) processors have the same voltage setting. | | | | | | | |

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| Processor | Voltage | Voltage Setting: SW2 | | | | | JP1 | |
|-----------------------|--|----------------------|-----|-----|----|-----|-------|-------|
| | | 1 | 2 | 3 | 4 | 5 | 1-2 | 3-4 |
| IDT X86 CPU C6/2-225* | 3.52 V | on | on | on | on | off | open | open |
| IDT X86 CPU 2-266 | The IDT X86 CPU C6/2 comes in several versions with different. Voltage. Please ask your dealer for the correct voltage. | | | | | | | |
| IDT X86 CPU 2-300 | | | | | | | | |
| IDT X86 CPU C6/2-200* | 3.3 V | on | off | on | on | off | open | open |
| IDT X86 CPU 2-233* | | | | | | | | |
| Rise mP6 PR266 | 2.8 V | off | off | off | on | off | close | close |

Step 3. Set SW1 for CPU Frequency

The DIP switch SW1 enables you to assign the Frequency Multiplier, CPU Host Bus Clock, AGP Clock and PCI Clock, as shown in the following table:

| Processor | Multiplier | CPU Bus Clock | JP7 | JP9 | JP10 | Frequency Setting: SW1 | | | | | |
|-----------------------|------------|---------------|-----|-----|------|------------------------|-----|-----|-----|-----|-----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 |
| AMD K5 PR100 | 1.5x | 66MHz | 2-3 | 2-3 | 1-2 | off | off | off | off | off | off |
| AMD K5 PR133 | 2.0x | 66MHz | 2-3 | 2-3 | 1-2 | on | off | off | off | off | off |
| AMD K5 PR166 | 2.5x | 66MHz | 2-3 | 2-3 | 1-2 | on | on | off | off | off | off |
| AMD K6 166 | 2.5x | 66MHz | 2-3 | 2-3 | 1-2 | on | on | off | off | off | off |
| AMD K6 200 | 3x | 66MHz | 2-3 | 2-3 | 1-2 | off | on | off | off | off | off |
| AMD K6 233 | 3.5x | 66MHz | 2-3 | 2-3 | 1-2 | off | off | off | off | off | off |
| AMD K6 266 | 4.0x | 66MHz | 2-3 | 2-3 | 1-2 | on | off | on | off | off | off |
| AMD K6 300 | 4.5x | 66MHz | 2-3 | 2-3 | 1-2 | on | on | on | off | off | off |
| AMD K6-2 266 | 4.0x | 66MHz | 2-3 | 2-3 | 1-2 | on | off | on | off | off | off |
| AMD K6-2 300 | 4.5x | 66MHz | 2-3 | 2-3 | 1-2 | on | on | on | off | off | off |
| | 3x | 100MHz | 1-2 | 2-3 | 1-2 | off | on | off | off | off | on |
| AMD K6-2 333 | 5.0x | 66MHz | 2-3 | 2-3 | 1-2 | off | on | on | off | off | off |
| | 3.5x | 95MHz | 1-2 | 2-3 | 1-2 | off | off | off | on | off | on |
| AMD K6-2 350 | 3.5x | 100MHz | 1-2 | 2-3 | 1-2 | off | off | off | off | off | on |
| AMD K6-2 366 | 5.5x | 66MHz | 2-3 | 2-3 | 1-2 | off | off | on | off | off | off |
| AMD K6-2 380 | 4.0x | 95MHz | 1-2 | 2-3 | 1-2 | on | off | on | on | off | on |
| AMD K6-2 400 | 4.0x | 100MHz | 1-2 | 2-3 | 1-2 | on | off | on | off | off | on |
| AMD K6-2 450 | 4.5x | 100MHz | 1-2 | 2-3 | 1-2 | on | on | on | off | off | on |
| AMD K6-2 475 | 5.0x | 95MHz | 1-2 | 2-3 | 1-2 | off | on | on | on | off | on |
| AMD K6-2 500 | 5.0x | 100MHz | 1-2 | 2-3 | 1-2 | off | on | on | off | off | on |
| AMD K6-III 400 | 4.0x | 100MHz | 1-2 | 2-3 | 1-2 | on | off | on | off | off | on |
| AMD K6-III 450 | 4.5x | 100MHz | 1-2 | 2-3 | 1-2 | on | on | on | off | off | on |
| Cyrix 6x86 MX PR 166+ | 2.0x | 66MHz | 2-3 | 2-3 | 1-2 | on | off | off | off | off | off |
| Cyrix 6x86 PR MX 200+ | 2.0x | 75MHz | 2-3 | 2-3 | 1-2 | on | off | off | off | on | off |
| Cyrix 6x86 MX PR 166 | 2.0x | 66MHz | 2-3 | 2-3 | 1-2 | on | off | off | off | off | off |

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| Processor | Multiplier | CPU Bus Clock | JP7 | JP9 | JP10 | Frequency Setting: SW1 | | | | | |
|--|------------|---------------|-----|-----|------|------------------------|-----|-----|-----|-----|-----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 |
| Cyrix 6x86 MX PR 200 | 2.5x | 66MHz | 2-3 | 2-3 | 1-2 | on | on | off | off | off | off |
| | 2.0x | 75MHz | 2-3 | 2-3 | 1-2 | on | off | off | off | on | off |
| Cyrix 6x86 MX PR 233 | 2.5x | 75MHz | 2-3 | 2-3 | 1-2 | on | on | off | off | on | off |
| Cyrix 6x86 MX PR 266 | 2.5x | 83MHz | 1-2 | 2-3 | 1-2 | on | on | off | on | on | off |
| Cyrix MII 300 | 3.5x | 66MHz | 2-3 | 2-3 | 1-2 | off | off | off | off | off | off |
| | 3x | 75MHz | 2-3 | 2-3 | 1-2 | off | on | off | off | on | off |
| Cyrix MII 333 | 4.0x | 66MHz | 2-3 | 2-3 | 1-2 | on | off | on | off | off | off |
| | 3.5x | 75MHz | 2-3 | 2-3 | 1-2 | off | off | off | off | on | off |
| | 3x | 83MHz | 1-2 | 2-3 | 1-2 | off | on | off | on | on | off |
| Cyrix MII 350 | 3x | 100MHz | 1-2 | 2-3 | 1-2 | off | on | off | off | off | on |
| Cyrix MII 366 | 2.5x | 100MHz | 1-2 | 2-3 | 1-2 | on | on | off | off | off | on |
| P54C P100 | 1.5x | 66MHz | 2-3 | 2-3 | 1-2 | off | off | off | off | off | off |
| P54C P133 | 2.0x | 66MHz | 2-3 | 2-3 | 1-2 | on | off | off | off | off | off |
| P54C/P55C P166 | 2.5x | 66MHz | 2-3 | 2-3 | 1-2 | on | on | off | off | off | off |
| P54C/P55C P200 | 3x | 66MHz | 2-3 | 2-3 | 1-2 | off | on | off | off | off | off |
| P55C P233 | 3.5x | 66MHz | 2-3 | 2-3 | 1-2 | off | off | off | off | off | off |
| IDT X86 CPU C6/2-200 | 3x | 66MHz | 2-3 | 2-3 | 1-2 | off | on | off | off | off | off |
| IDT X86 CPU C6/2-225 | 3x | 75MHz | 2-3 | 2-3 | 1-2 | off | on | off | off | on | off |
| IDT X86 CPU 2-233 | 3.5x | 66MHz | 2-3 | 2-3 | 1-2 | off | off | off | off | off | off |
| IDT X86 CPU 2-266 | 2.33x | 100MHz | 1-2 | 2-3 | 1-2 | off | on | on | off | off | on |
| IDT X86 CPU 2-300 | 2.5x | 100MHz | 2-3 | 2-3 | 1-2 | on | on | off | off | off | on |
| Rise mP6 PR266 | 3x | 66MHz | 2-3 | 2-3 | 1-2 | off | on | off | off | off | off |
| | 2.0x | 100MHz | 1-2 | 2-3 | 1-2 | on | off | off | off | off | on |
| This main board supports various CPU multiplier and host bus frequency settings. Please select the proper frequency setting based on specifications of the CPU you have purchased. System stability or components damage, in case of over-specification setting, is not guaranteed. | | | | | | | | | | | |

Installation

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Jumper JP7 is used to indicate the frequency of the CPU bus clock to the ETEQ chipset. Jumpers JP9 and JP10 are used to determine that the SDRAM is running at the frequency of the CPU bus clock or at that of the AGP clock.



| CPU BUS Clock | AGP BUS Clock | PCI Clock | JP7 | JP9 | JP10 | SDRAM Clock |
|---------------|---------------|-----------|-----|-----|------|-------------|
| 66MHz | 66MHz | 33MHz | 2-3 | 2-3 | 1-2 | 66MHz |
| 75MHz | 75MHz | 37.5MHz | 2-3 | 2-3 | 1-2 | 75MHz |
| 83MHz | 55MHz | 27.5MHz | 1-2 | 1-2 | 2-3 | 55MHz |
| | | | 1-2 | 2-3 | 1-2 | 83MHz |
| 95MHz | 63.4MHz | 31.7MHz | 1-2 | 1-2 | 2-3 | 63.4MHz |
| | | | 1-2 | 2-3 | 1-2 | 95MHz |
| 100MHz | 66MHz | 33MHz | 1-2 | 1-2 | 2-3 | 66MHz |
| | | | 1-2 | 2-3 | 1-2 | 100MHz |
| 112MHz | 75MHz | 37.5MHz | 1-2 | 1-2 | 2-3 | 75MHz |
| | | | 1-2 | 2-3 | 1-2 | 112MHz |
| 124MHz | 82.6MHz | 41.3MHz | 1-2 | 1-2 | 2-3 | 82.6MHz |
| | | | 1-2 | 2-3 | 1-2 | 124MHz |

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

Step 4. Select the CPU Burst Mode

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/M II)

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

If you are using a Cyrix TM 6x86/L/MX/M II series CPU, set the burst mode to Linear by shorting pin 2-3 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 5. Attach Connectors

This section tells how to connect internal peripherals and power supply to the Motherboard.

Internal peripherals include IDE devices (HDD, CD-ROM), Floppy Disk Drive, Front Panel Devices (Turbo LED, Internal Speaker, Reset Button, IDE LED, and KeyLock Switch.), Wake-On-LAN card, VGA card, Sound Card, and other devices.

For more details on how to connect internal and external peripherals to your new 5EHM/5EH5 V1.x Super 7™ Motherboard, please refer to *5EHM/5EH5 V1.x Motherboard User's Guide and Technical Reference* online manual on CD-ROM.

Connectors and Plug-ins

| IrDA (Infrared Device Header): IR1 | | | | | Wake-On-LAN Header: JP44 | | | | |
|--|-------------|-----------|--|--------------|--------------------------|------------|-----------|-------------|------|
| Pin1 | Pin2 | Pin3 | Pin4 | Pin5 | Pin1 | Pin2 | Pin3 | | |
| VCC | None | IRRX | GND | IRTX | 5VSB | GND | MP-Wakeup | | |
| CPU Cooling Fan: JP12 | | | | | USB | | | | |
| Pin1 | Pin2 | Pin3 | Connect your USB devices to this header. | | | | | | |
| GND | 12V | NC | | | | | | | |
| <div>Power LED Key Lock Speaker</div> <div><div><div>+</div><div>-</div></div><div><div>+</div><div>-</div></div></div> <div><div><div>○ ○ ○ ○</div><div>○ ○</div></div><div><div>○ ○ ○ ○</div><div>○ ○ ○ ○</div><div>○ ○ ○ ○</div></div></div> <div><div><div>□</div><div>□</div><div>□</div><div>□</div></div></div> <div>Reset PWRBT Turbo LED HDD LED</div> | | | | | Power LED | | Keylock | | |
| | | | | | Pin1 | Pin2 | Pin3 | Pin1 | Pin2 |
| | | | | | 5V | NC | GND | Control Pin | GND |
| | | | | | Speaker | | | | |
| | | | | | Pin1 | Pin2 | Pin3 | Pin4 | |
| 5V | NC | NC | Speaker out | | | | | | |
| HDD LED | | TB LED | | PWRBT | | RESET | | | |
| Pin1 | Pin2 | Pin1 | Pin2 | Pin1 | Pin2 | Pin1 | Pin2 | | |
| LED Anode | LED Cathode | LED Anode | LED Cathode | Power On/Off | GND | Power Good | GND | | |
| ATX Power On/Off: PWRBT | | | | | | | | | |
| Connect your power switch to this header (momentary switch type). | | | | | | | | | |
| To turn off the system, please press this switch and hold down for longer than 4 seconds. | | | | | | | | | |
| ATX Power Supply: ATX PW | | | | | | | | | |
| Attach the ATX Power cable to this connector. | | | | | | | | | |
| Please make sure the ATX power supply can take at least 720mA load on the 5V standby lead (5VSB), if you want to use the advanced power management functions like Power-On by modem or WOL. | | | | | | | | | |
| Note: Use only ONE type of power supply. If an AT power supply is used, do not attach an ATX power supply. | | | | | | | | | |
| AT Power Cable | | | | | | | | | |
| Connect the AT Power cable to this connector. If you use AT power supply. | | | | | | | | | |

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Step 6. Configure Memory

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. Clear CMOS

Clear the CMOS memory by momentarily shorting pin 2-3 on jumper JP5, and then by shorting pin 1-2 to retain new settings. This jumper can be easily identified by its white colored cap.

| CMOS Clearing | Clear CMOS Data | Retain CMOS Data |
|---------------|---|--|
| JP5 Setting | short pin 2-3 to clear the CMOS  | Short pin 1-2 to retain new settings  |

Note: You must unplug the ATX power cable from the ATX power connector when performing the CMOS Clear operation.

3 *Quick BIOS 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, follow these steps to complete the quick BIOS setup.

Step 1. Select [LOAD SETUP DEFAULT]

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

Step 2. Select [STANDARD CMOS SETUP]

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

Step 3. Select [SAVE & EXIT SETUP]

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

4 The SOYO CD



The SOYO-CD will NOT autorun if you use it on an Operating System other than Windows 9x or NT.

Your SY-5EHM/5EH5 V1.x Motherboard comes with a CD-ROM labeled "SOYO CD." The SOYO CD contains (1) the user's manual file for your new Motherboard, (2) the drivers software available for installation, and (3) a database in HTML format with information on SOYO Motherboards and other products.

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

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



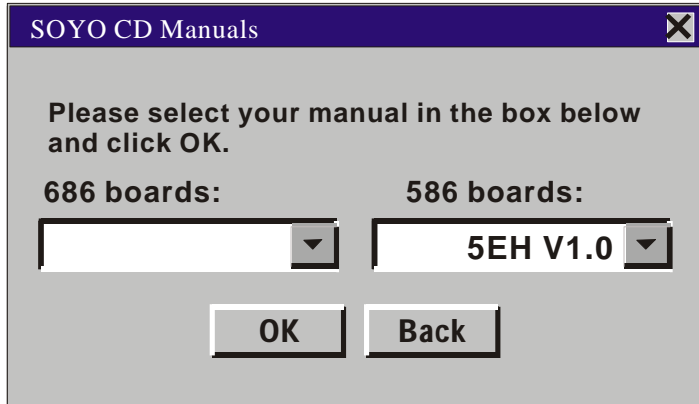
(SOYO CD Start Up Program Menu)

If you use Windows 95/98, the SOYO CD Start Up Program automatically detects which SOYO Motherboard you own and displays the corresponding model name.

Step 2. Read SOYO [5EH V1.0] Manual

Click the **Read Manual** button to open the user's manual file of your Motherboard.

Please note that if the Start Up program was unable to determine which SOYO Motherboard you own, the manual selection menu will pop up, as shown below. Then select the user's manual file that corresponds to your Motherboard model name and click **OK**.



(Manual Selection Menu)

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 3. Install Drivers and Utilities

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

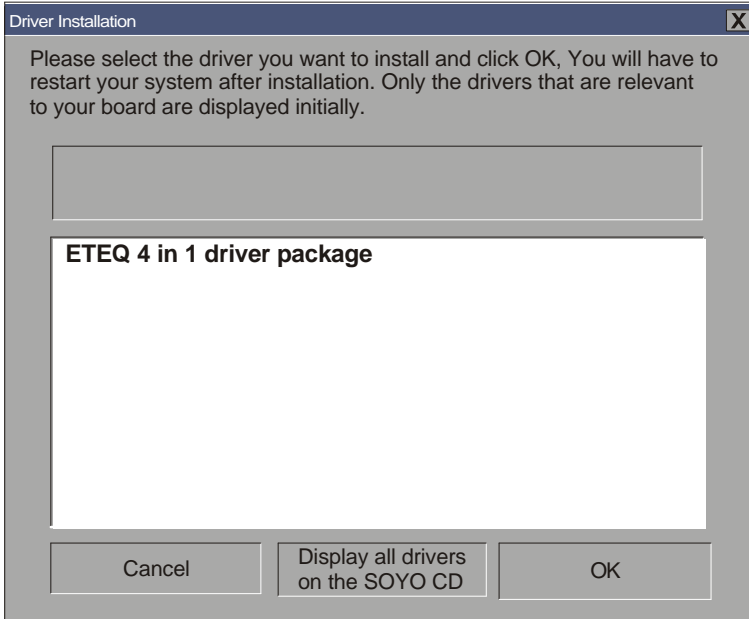
Win95/OSR2/Usbsupp/USBsupp.exe

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- After installation of windows, you will need to install the ETEQ 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.x and the Windows version you use.

Click the Install drivers 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.x.



(Driver Installation Menu)

However, to display the list of all drivers software available with SOYO Motherboards, click the **Display all drivers on the SOYO CD** button. Please make sure to install only the drivers adapted to your system, or otherwise this may cause system malfunctions.

A short description of all available drivers follows:

- **ETEQ 4in1 driver package**

The 4 in 1 driver package includes all drivers your motherboard needs. After selecting this driver package, one driver will be installed automatically (the IRQ remapping utility), the other three are installed if selected. By default all three drivers are selected. A description of the 4 drivers follows:

— **Bus Master PCI IDE Driver**

This driver will speed up the data-transfer rate to and from the harddisk.

— **AGP VxD Driver**

This driver must be installed in order to be able to make use of the on-board AGP Video functionality.

— **ETEQ Chipset Functions Registry**

This driver will make the necessary changes to the Windows registry, in order to make sure that Windows has no problems recognizing your ETEQ chipset.

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

This utility will remap the IRQ lines to make sure that everything functions properly under Windows.

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.

Note: When the installation is complete, most drivers require to restart your system before they can become active.

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 4. 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.

Step 5. Enter the SOYO CD

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

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



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

(* Internet Explorer is a Microsoft Trademark)

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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