

SY-5SSM Motherboard

Quick Start Guide

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Driver
Installation

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

100% POST CONSUMER
RECYCLED PAPER

SY-5SSM Motherboard

Pentium® Class CPU (66&100MHz Host Bus) supported
SiS530 AGP/PCI Motherboard
Micro-ATX 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>".

5SSM Serial - Version 1.0 - Edition: December 1998

* These specifications are subject to change without notice

1 Introduction

Congratulations on your purchase of the **SY-5SSM** 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 *SY-5SSM Motherboard User's Guide and Technical Reference* online manual included on the CD-ROM packed with your Motherboard.

Unpacking

* 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.

When unpacking the Motherboard, check for the following items:

◆ The SY-5SSM Motherboard



◆ This Quick Start Guide



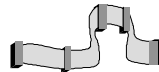
◆ The Installation CD-ROM



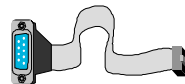
◆ One IDE Device Flat Cable



◆ One Floppy Disk Drive Flat Cable

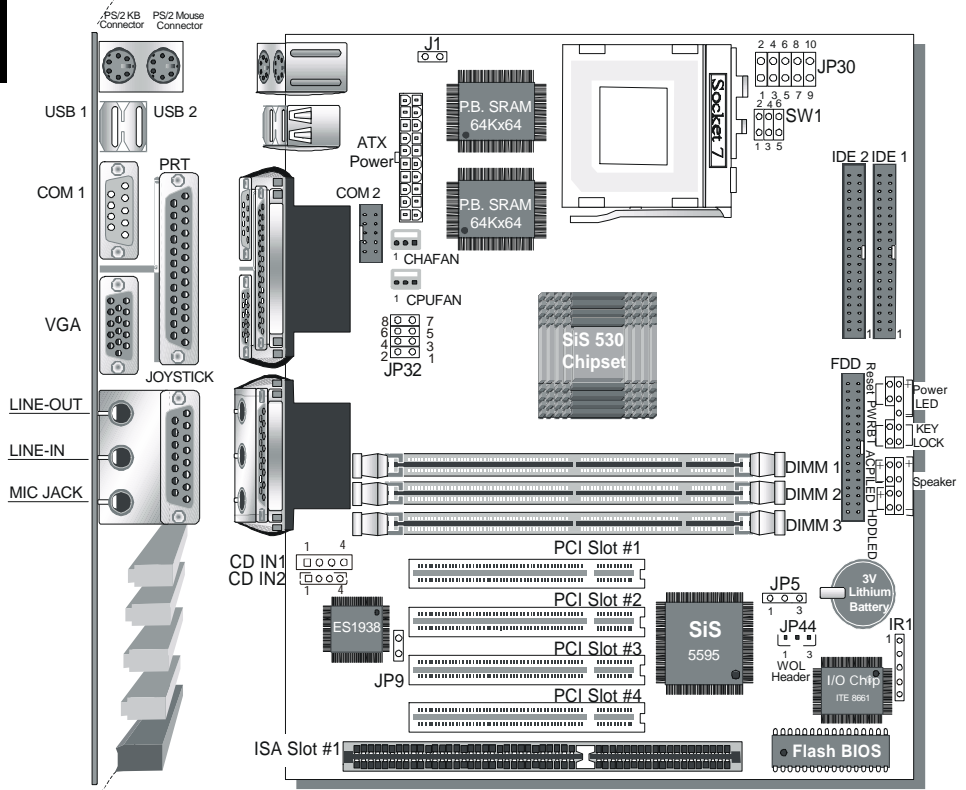


◆ One serial port flat cable with a 9-pin connector



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SY-5SSM Motherboard Layout



Key Features

- Integrated 3D AGP accelerator supports UMA or non-UMA (option)
- 3D PnP PCI Audio onboard
- 1 MB L2 cache on board
- Supports CPU voltage from 2.0V to 3.5V in 0.1V increment
- PC98, ACPI, Ultra DMA 33/66
- Power-on by modem or alarm
- Supports Wake-On-LAN (WOL)
- Supports power-off by hot-key
- 3 x 32-bit bus mastering PCI slots & 1 x 32-bit bus slaving PCI slot
- 2 x USB ports
- 1 x IrDA port
- Supports multiple-boot function
- Supports Pentium® class CPU with host bus clock of 66/100 MHz
- Supports system memory up to 768MBytes

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 **SY-5SSM** Motherboard. For detailed information, please refer to *SY-5SSM 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® processor with cooling fan
- ◆ DIMM memory module
- ◆ Computer case and chassis with adequate power supply unit
- ◆ Monitor
- ◆ Keyboard
- ◆ Pointing Device (PS/2 mouse)
- ◆ Speaker(s) (optional)
- ◆ Disk Drives: HDD, CD-ROM, Floppy drive ...
- ◆ External Peripherals: Printer, Plotter, and Modem- (optional)
- ◆ Internal Peripherals: Modem and LAN cards (optional)

Notice 1: This Motherboard features one built-in VGA port and three built-in audio-stereo ports. Therefore you do not need to install neither a VGA card nor a sound card.

Notice 2: When using the onboard VGA, please install DRAM modules in bank "DIMM 1" in priority.

Notice 3: If you want to use an external speaker connected to "Line-out" port, make sure to use an "amplified speaker" that can generate proper output sound volume.

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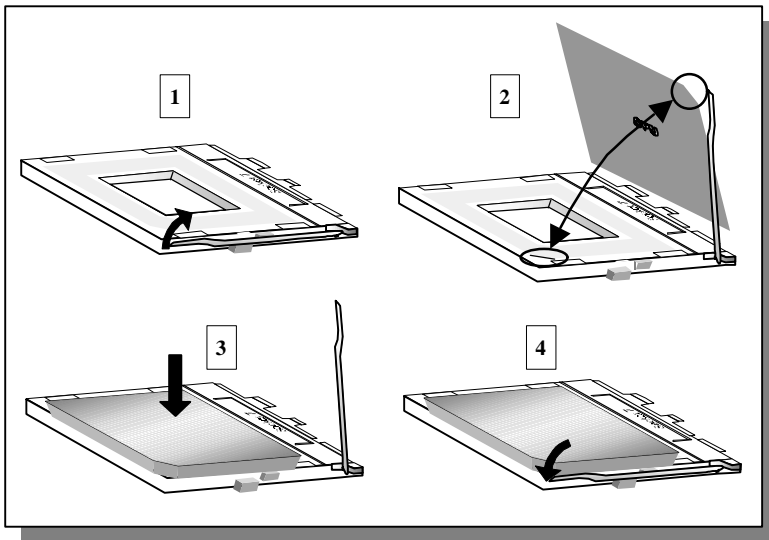
Install the Motherboard

Follow the steps below in order to perform the installation of your new **SY-5SSM** Motherboard.

Step 1. Install the CPU

To mount the Pentium® class 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 (CPUFAN) 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 the CPU Voltage (JP30)

For CPUs that come with different voltages, please verify the correct voltage settings with your dealer before installation. Use the following table to set JP30 to the proper "voltage value", according to the specifications marked on your CPU:

Processor	Voltage	Voltage Setting: JP30				
		1-2	3-4	5-6	7-8	9-10
AMD K5 PR100 AMD K5 PR133 AMD K5 PR166	3.52 V	open	short	short	short	short
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	open	short	short	open	short
AMD K6 233	3.2 V	open	short	short	open	open
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	open	open	open	short	open
AMD K6-2 450	2.3 V	open	open	open	short	short
Cyrix 6x86(L) PR166+ Cyrix 6x86(L) PR200+	The Cyrix 6X86(L) and M ^c 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 ^c 300 Cyrix M ^c 333 Cyrix M ^c 350	2.9 V	open	short	open	open	short
Intel P54C P100 Intel P54C P133 Intel P54C P166 Intel P54C P200	3.3 V	open	short	short	open	short
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 Intel P55C P233	2.8 V	open	short	open	open	open
The P55C (MMX) processors have the same voltage setting.						
IDT WinChip C6/W2-200 IDT WinChip C6/W2-225	3.52 V	open	short	short	short	short

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Step 3. Set JP32, SW1 for CPU Frequency

The DIP switch SW1 enable you to assign the Multiplier and Bus Clock, as shown in the following table:

Processor	Bus Clock	Multi-plier	CPU Host Bus Setting: JP32				Frequency Multiplier: SW1		
			1-2	3-4	5-6	7-8	1-2	3-4	5-6
AMD K5 PR100	66 MHz	1.5 x	open	short	short	short	open	open	open
AMD K5 PR133	66 MHz	2.0 x	open	short	short	short	short	open	open
AMD K5 PR166	66 MHz	2.5 x	open	short	short	short	short	short	open
AMD K6 166	66 MHz	2.5 x	open	short	short	short	short	short	open
AMD K6 200	66 MHz	3.0 x	open	short	short	short	open	short	open
AMD K6 233	66 MHz	3.5 x	open	short	short	short	open	open	open
AMD K6 266	66 MHz	4.0 x	open	short	short	short	short	open	short
AMD K6 300	66 MHz	4.5 x	open	short	short	short	short	short	short
AMD K6-2 266	66 MHz	4.0 x	open	short	short	short	short	open	short
AMD K6-2 300	66 MHz	4.5 x	open	short	short	short	short	short	short
AMD K6-2 300	100 MHz	3.0 x	open	open	short	short	open	short	open
AMD K6-2 333	66MHz	5.0 x	open	short	short	short	open	short	short
AMD K6-2 333	95MHz	3.5 x	open	short	open	open	open	open	open
AMD K6-2 350	100MHz	3.5 x	open	open	short	short	open	open	open
AMD K6-2 366	66MHz	5.5 x	open	short	short	short	open	open	short
AMD K6-2 380	95MHz	4.0 x	open	short	open	open	short	open	short
AMD K6-2 400	100MHz	4.0 x	open	open	short	short	short	open	short
AMD K6-2 450	100MHz	4.5 x	open	open	short	short	short	short	short
Cyrix 6x86 PR166+	66 MHz	2.0 x	open	short	short	short	short	open	open
Cyrix 6x86 PR200+	75 MHz	2.0 x	open	short	short	open	short	open	open
Cyrix 6x86MX PR166	66 MHz	2.0 x	open	short	short	short	short	open	open
Cyrix 6x86MX PR200	66 MHz	2.5 x	open	short	short	short	short	short	open
Cyrix 6x86MX PR200	75 MHz	2.0 x	open	short	short	open	short	open	open
Cyrix 6x86MX PR233	75 MHz	2.5 x	open	short	short	open	short	short	open
Cyrix 6x86MX PR266	83 MHz	2.5 x	open	short	open	short	short	short	open
Cyrix M II-300	66 MHz	3.5 x	open	short	short	short	open	open	open
	75 MHz	3.0 x	open	short	short	open	open	short	open
Cyrix M II-333	66 MHz	4.0 x	open	short	short	short	short	open	short
	75 MHz	3.5 x	open	short	short	open	open	open	open
	83MHz	3.0 x	open	short	open	short	open	short	open
	100MHz	2.5 x	open	open	short	short	short	short	open
Intel P54C P100	66 MHz	1.5 x	open	short	short	short	open	open	open
Intel P54C P133	66 MHz	2.0 x	open	short	short	short	short	open	open
Intel P54C P166	66 MHz	2.5 x	open	short	short	short	short	short	open
Intel P54C P200	66 MHz	3.0 x	open	short	short	short	open	short	open
Intel P55C P200	66 MHz	3.0 x	open	short	short	short	open	short	open
Intel P55C P233	66 MHz	3.5 x	open	short	short	short	open	open	open
IDT WinChip C6/W2-200	66 MHz	3.0 x	open	short	short	short	open	short	open
IDT WinChip C6/W2-225	75 MHz	3.0 x	open	short	short	open	open	short	open

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.

Step 4. Make Connections to the Motherboard

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 (ACPI LED, Internal Speaker, Reset Button, IDE LED, and KeyLock Switch), Wake-On-LAN card, and other devices.

For more details on how to connect internal and external peripherals to your new SY-5SSM Motherboard, please refer to *SY-5SSM Motherboard User's Guide and Technical Reference* online manual on CD-ROM.

Note: An ATA/66 cable (40-pin, 80-conductor cable) must be used to ensure proper operation of the Ultra ATA/66 hard drive.

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: CPUFAN				Chassis Fan: CHAFAN				
Pin1	Pin2	Pin3		Pin1	Pin2	Pin3		
GND	12V	SENSOR		GND	12V	SENSOR		
CD Line-in:CD IN1,CD IN2					Pin1	Pin2	Pin3	Pin4
Connect the CD Line-in cord from the CR-ROM device to the matching connector CD IN1 or CD IN2.					CD IN1	L	G	R
					CD IN2	G	L	R
				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		ACPI 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. If you use ATX power supply. When using the Power-On by PS/2 Keyboard function, please make sure the ATX power supply can take at least 720mA load on the 5V Standby lead (5VSB) to meet the standard ATX specifications.								

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Step 5. Configure Memory

Your board comes with three DIMM sockets, providing support for up to 768MB of main memory using DIMM modules from 8MB to 256MB. For 66/75MHz host bus CPUs use 12ns or faster DIMM modules.



Memory Configuration Table

MEMORY CONFIGURATION	DIMM Banks		
	DIMM 1	DIMM 2	DIMM 3
RAM Type	SDRAM	SDRAM	SDRAM
Single RAM Module Size (MB)	8/16/32/64/128/256	8/16/32/64/128/256	8/16/32/64/128/256
<p>Note: If you plan on using the onboard VGA and intend to install only one DRAM module, then this single DRAM <i>must</i> be installed in bank DIMM 1.</p>			

Step 6. Select the CPU Burst Mode (J1)

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

- Interleave Burst (CPU: Intel P54C/P55C, AMD K5/K6/K6-2, IDT WinChip)
- Linear Mode (CPU: Cyrix 6x86/L/MX/MC)

CPU Burst Mode	Interleave	Linear
		Intel [®] P54C/P55C AMD [™] K5/K6/K6-2 IDT WinChip
J1 Setting	When using Intel or AMD CPUs. 	When using Cyrix type of CPU. 

If you are using a Cyrix[™] 6x86/L/MX/M II series CPU, set the burst mode to Linear by shorting jumper J1, 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 Mode] 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 7. Enable/Disable the Onboard Sound (JP9)

The onboard audio features of your Motherboard are controlled by jumpers JP9. Choose the available sound options among the following table:

Sound Settings	JP9
Onboard Sound: Enable	short
Onboard Sound: Disable	open

Step 8. Clear CMOS Data (JP5)

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 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.		

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]

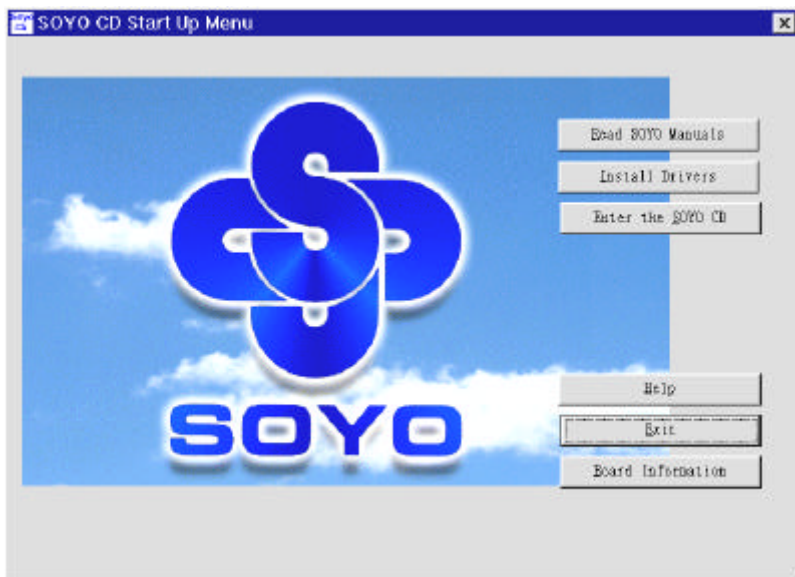
Press **<Enter>** to save the new configuration to the CMOS memory, and continue the boot sequence.

4 The SOYO CD

Your SY-5SSM 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

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



(SOYO CD Start Up Program Menu)

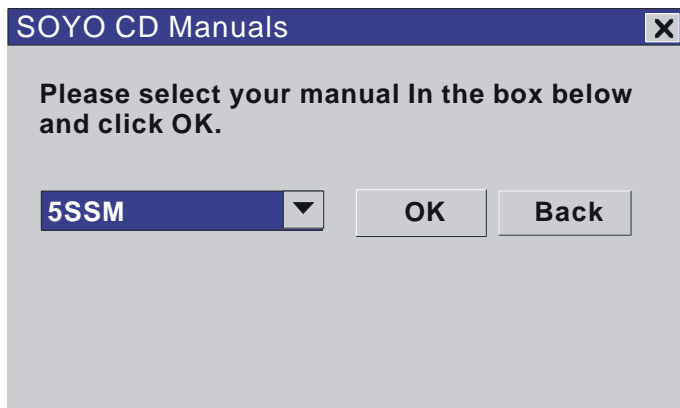
The SOYO CD Start Up Program automatically detects which SOYO Motherboard you own and displays the corresponding model name.

Step 2. Read SOYO [5SSM] Manual

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

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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**.



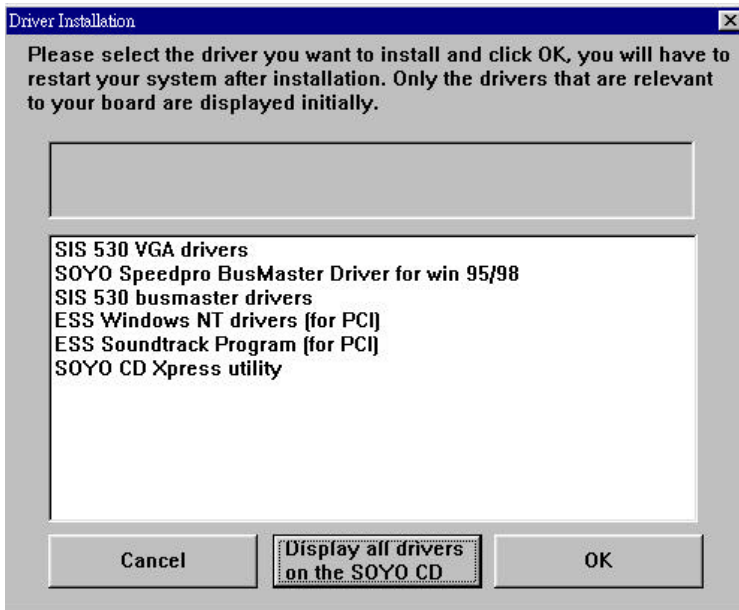
(Manual Selection Menu)

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

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



(Driver Installation Menu)

A short description of all available drivers follows:

➤ **SiS 530 VGA drivers**

The SiS VGA driver for windows 95/98 must be installed to make use of your on board VGA function. (For WinNT read the instructions in back of the Manual)

➤ **SOYO SpeedPro BusMaster Driver for Windows 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 drivers, you can NOT install the SiS busmaster drivers.

➤ **SiS 530 busmaster drivers**

The SiS Busmaster drivers for Windows 95/98 will speed up your harddisk. Only install ONE type of busmaster driver and first uninstall your previous busmaster drivers before installing a new version. (For Windows NT read the instructions in the back of the Manual)

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➤ **ESS Windows NT drivers (for PCI)**

These are the Windows NT drivers for the on board soundchip. Make sure to first install these drivers before installing the ESS Soundtrack Program. For the Windows 95/98 ESS drivers please read the installation steps in the back of this manual.

➤ **ESS Soundtrack Program (for PCI)**

With this application program the user can make use of the on board sound chip. Before installing the ESS Soundtrack Program, you **MUST** first install the ESS drivers for Windows 9x or NT.

➤ **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.

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.

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. Enter the SOYO CD

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

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



(SOYO CD HTML Database in English*)

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

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

5 SiS VGA Driver Installation

Introduction

Your SY-5SSM Motherboard is equipped with the SiS 530 chipset that offers extended graphics and text modes capabilities. To make use the advanced features of the SiS 530 chipset, you will need to install software drivers and application programs included on the CD-ROM.

This section describes how to perform the SiS VGA driver installation for **Microsoft Windows NT** environment. The Windows 95/98 drivers can be installed automatically through the SOYO CD. Refer to page 16. For other application programs, and if you are using an operating system other than WinNT, please refer to the *SiS VGA Driver Installation* section in *SY-5SSM Motherboard User's Guide and Technical Reference* online manual included on the CD-ROM.

Windows NT Drivers

Driver Files

The enclosed SiS 530 Windows NT drivers files are:

- ◆ **SiS530.INT**
- ◆ **SiS530P.SYS**
- ◆ **SiS530V.DLL**

All the 16-color, 256-color, 32K/64K-color, and 16M-color drivers are available.

Installation

1. Click [Start] menu and select [Control Pane] from Settings group.
2. Select [Display] icon.
3. Select [Settings] index in the display properties sheet.
4. Select [Change Display Type] button.
5. Select [Change ...] button in [Adapter Type] group.
6. Select [Have Disk] button.
7. Place CD-ROM disk into the CD drive.
8. When the [Install from Disk] dialog box appears, type the directory storing the drivers and click [OK]. The directory in the CD-ROM is at **D:\DRIVER\SiS530VGA\WINNT40.**

9. The [Select Device] dialog box will appear, showing the driver. Click on [OK] and the driver will be installed.
10. Select [Close] or [Apply] button from display properties sheet.
11. A message will appear stating you must restart the Windows 95 system, select [Yes] to restart.
12. After restarting, Windows 95 will run on 640x480x256 color, 75NI.

Selecting Resolution, Color Depth and Refresh Rate

1. Click [Start] menu and select Control Panel from Settings group.
2. Select Display icon.
3. Select Settings.
4. Select Color Palette to change between 16 colors, 256 colors, Hi color, and True color.
5. To select desktop resolution size, go to the Desktop area and use the slide bar to change resolution from 640x480, 800x600, 1024x768, and 1280x1024.
6. Select Display Modes.
7. Select value in Refresh rate list box to change the screen refresh rate.
8. Click [OK] or [Apply].

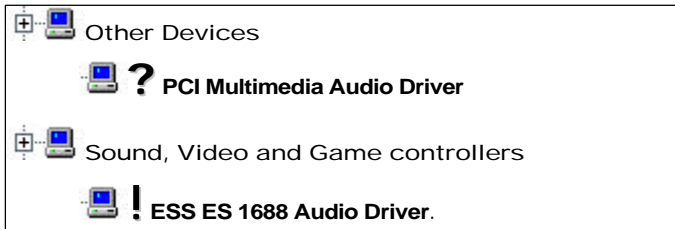
6 ESS™ Audio Driver Installation

Windows® 95/98 Sound-Driver Installation

This section describes how to perform the ESS™ audio driver installation in **Windows® 95/98** environment. The Windows NT drivers can be installed automatically through the SOYO CD. Refer to page 16.

After first installing Windows® 95/98, follow these steps:

1. From the desktop, click [Start] menu and select [Control Panel] from [Settings] group.
2. Select the [System] icon.
3. Select the [Device Manager] tab; use the scroll bar to locate the following devices and, if these entries exist, remove them:



Note: To remove a device, highlight the item you want to take out from your system and press the [Remove] button.

4. Then, click [Refresh].
5. Insert the SOYO CD into the CD-ROM drive.
6. When the "Update Driver Wizard" appears, click [Next].
7. The installation wizard will prompt you on the location of the new audio driver you want to install. Click [Other Location].
8. Click the [Browse] button.
9. Select the "D:\DRIVERS\ESS-PCI\Win9x" path, and click [OK].
10. Now let Windows® 95/98 automatically copy the .inf driver files and configure the ESS sound chip.

This completes the Windows® 95/98 installation. The program will continue to load and when it is complete, you should hear the Windows® 95/98 start-up wave file.

Edition: December 98

Version 1.0

5SSM SERIAL

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