SY-5SSM SY-5SSM/5 V1.0 Motherboard

Quick Start Guide

SPORTON INTERNATIONAL INC.







Declaration of Conformity

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

Declaration No.: D920207 1999/3/6

The following designated product

EQUIPMENT: Main Board MODEL NO.: SY-5SSM

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: HITACHI/CM814U PS/2 Keyboard: DELL/GYUM90SK PS/2 Mouse: GENIUS/FSUGMZFC USB Mouse: WINIC/ F4ZFDM-A50 Printer: HP/DS16XU225 Modem: ACEEX/IFAXDM1414

Speaker: JUSTER/SP-1000 Stereo Cassette Player: KOKA/ KW-247 Microphone: KOKA/ SR-M02 Joystick: MICROSOFT/ C3KMJI

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

anufacturer Signature SPORTON LAB.

SY-5SSM & SY-5SSM/5 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".

SY-5SSM & SY-5SSM/5 - Version 2.5 - Edition: June 2000

* These specifications are subject to change without notice

1 Introduction

Congratulations on your purchase of the **SY-5SSM or SY-5SSM/5** 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 & SY-5SSM/5 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 SY-5SSM or SY-5SSM/5 Motherboard



This Quick Start Guide



◆ The Installation CD-ROM

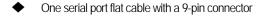


 SOYO Bonus Pack CD-ROM (Norton AntiVirus and Ghost Drivers)



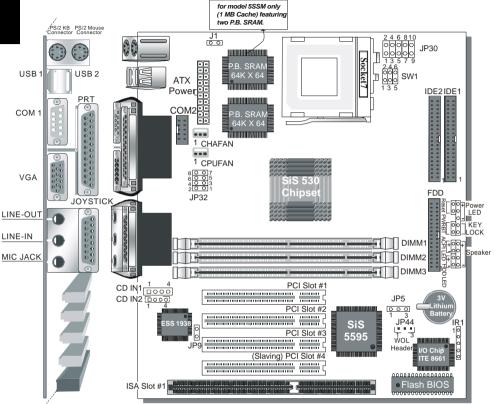


One Floppy Disk Drive Flat Cable





SY-5SSM or SY-5SSM/5 Motherboard Layout



Key Features

- Integrated 3D AGP accelerator supports UMA or non-UMA (option)
- 3D PnP PCI Audio onboard
- 512KB/1MB 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 or SY-5SSM/5** Motherboard. For detailed information, please refer to *SY-5SSM or SY-5SSM/5* 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.

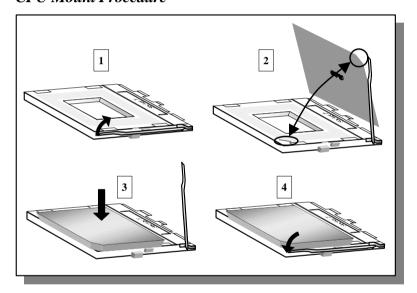
Install the Motherboard

Follow the steps below in order to perform the installation of your new **SY-5SSM or SY-5SSM5** 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.
- 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:

_		JP30						
Processor	Voltage	1-2	3-4	5-6	7-8	9-10		
AMD K5 PR100	3.52 V	open	short	short	short	short		
AMD K5 PR133 AMD K5 PR166	The AMD K5 and K6 come in several versions with different versions with different versions with your dealer before installation. The most common K5 runs on 3.52V.							
AMD K6 166 AMD K6 200	2.9 V	open	short	open	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 AMD K6-2+ 450	2.2 V	open	open	open	short	open		
AMD K6-2 550	2.3 V	open	open	open	short	short		
AMD K6-2 450 AMD K6-2 475	2.2 V	open	open	open	short	open		
AMD K6-2 475 AMD K6-2 500	2.4 V	open	open	short	open	open		
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 6Xi voltages. Plea					ifferent		
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	open	short	open	open	short		
Cyrix MII 400 Cyrix MII 433	2.2 V	open	open	open	short	open		
Intel P54C P100	3.3 V	open	short	short	open	short		
Intel P54C P133 Intel P54C P166 Intel P54C P200 The P54C (standard Pentium ®) comes in several versions voltages. Please ask your dealer for the correct voltage common P54C runs on 3.3V.								

		Voltage Setting: JP30							
Processor	Voltage	1-2	3-4	5-6	7-8	9-10			
Intel P55C P166	2.8 V	open	short	open	open	open			
Intel P55C P200 Intel P55C P233	The P55C (MMX) processors have the same voltage setting.								
IDT X86 CPU C6/2-225	3.52 V open short short short					short			
IDT X86 CPU 2-266	The IDT X86	CPU C6/2 c	omes in sev	eral version	s with differe	ent			
IDT X86 CPU 2-300	voltages. Plea	ase ask your	dealer for th	ne correct vo	oltage.				
IDT X86 CPU C6/2-200 IDT X86 CPU 2-233	3.3 V	open	open	short					
Rise mP6 PR266	2.8 V	open	short	open	open	open			

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	Clock Multiplier CPU Host Bus Setting: JF				requenc tiplier: \$			
		plier	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
AMD K6-2 475	95MHz	5.0 x	open	short	open	open	open	short	short
AMD K6-2 500	100MHz	5.0 x	open	open	short	short	open	short	short
AMD K6-2 550	100MHz	5.5 x	open	open	short	short	open	open	short
AMD K6-2+ 450	100MHz	4.5 x	open	open	short	short	short	short	short
AMD K6-III 400	100MHz	4.0 x	open	open	short	short	short	open	short
AMD K6-III 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

Processor	Bus Clock	Multi- plier	СРИ Н	ost Bus	Setting	j: JP32		requenc tiplier: S	
		pilei	1-2	3-4	5-6	7-8	1-2	3-4	5-6
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
Cyrix IVI II-300	75 MHz	3.0 x	open	short	short	open	open	short	open
	66 MHz	4.0 x	open	short	short	short	short	open	short
Cyrix M II-333	75 MHz	3.5 x	open	short	short	open	open	open	open
	83MHz	3.0 x	open	short	open	short	open	short	open
Cyrix M II-350	90 MHz	3.0 x	short	short	short	short	open	short	open
Cyrix M II-366	100MHz	2.5 x	open	open	short	short	short	short	open
Cyrix M II-400	95 MHz	3.0 x	open	short	open	open	open	short	open
Cyrix M II-433	90 MHz	3.5 x	short	short	short	short	open	open	open
Cyrix IVI II-433	100MHz	3.0 x	open	open	short	short	open	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 X86 CPU C6/2-200	66 MHz	3.0 x	open	short	short	short	open	short	open
IDT X86 CPU C6/2-225	75 MHz	3.0 x	open	short	short	open	open	short	open
IDT X86 CPU 2-233	66 MHz	3.5 x	open	short	short	short	open	open	open
IDT X86 CPU 2-266	100 MHz	2.33 x	open	open	short	short	open	short	short
IDT X86 CPU 2-300	100 MHz	2.5 x	open	open	short	short	short	short	open
Rise mP6 PR266	66 MHz	3.0 x	open	short	short	short	open	short	open
NISC HIFU FR200	100 MHz	2.0 x	open	open	short	short	short	open	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 or SY-5SSM/5 Motherboard, please refer to SY-5SSM or SY-5SSM/5 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						4					
Pin1	Pin2	Pin3	Pin	4	P	n5		Pin1		Pin2			Pin3				
VCC	None	IRRX	GNI	D	IR	TX	Ę	SVSB		G	ND		MP-	Wakeup			
С	PU Cooling I	an: CPl	JFAN					Cha	assis	Fan:	CHA	FAN					
Pin1	Pir	2	Р	in3			Pin1			Pin2			Р	in3			
GND	12	V	SEN	ISO	R		GND			12V			SEN	ISOR			
	CD Line	-in: CD	IN1,CD	IN2				Pin	1	Pin	2	Pir	13	Pin4			
Connect the	CD Line-in co	d from th	ne CR-R	MOS		CDI	N1	L		G		G	ì	R			
device to the	matching con	nector C	D IN1 or	· CD	IN2.	CDI	N2	G	i	L		G	ì	R			
Power LED	Key Lock	Speake	er			Power LED Keylock											
+ -	<u>-</u>	-	_		Pin	1	Pin2	Р	in3		Pin1			Pin2			
000		00	000					5\	/	NC	G	ND	Со	ntrol I	Pin	(GND
1	1 -	<u> </u>			Speaker												
i i		T_			Р	in1		Pin2		Pin3			Pir	14			
Reset	PWRBT ACF	ILED H	DD LED		Ę	ίV		NC		NC		ζ	Speak	er out			
HDI) LED		ACPI LED					PWF	RBT			F	RESE	Т			
Pin1	Pin2	Р	in1		Pin2		Pin1			Pin2		Pin1		Pin2			
LED Anode	LED Cathod	e LED	Anode	LE	D Cathode		Powe	er On/0	Off	GND	Pov	ver C	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.

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.

Step 5. 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/K6-III, IDT X86 CPU, Rise mP6)
- ➤ Linear Mode (CPU: Cyrix 6x86/L/MX/M¢)P

	Interleave	9	Line	ar			
CPU Burst Mode	Intel®P54C/F AMD ™K5/K6/K6	6-2/K6-III	Cyrix ™6x86/L/MX/M≎				
J1 Setting	IDT X86 CPU, Ri When using Intel or AMD CPUs.	0 1 0 2	When using Cyrix type of CPU.	Q 1 Q 2			

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:

- 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 6. 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	DIMM Banks							
CONFIGURATION	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					

Note: If you plan on using the onboard VGA and intend to install only one DRAM module, then this single DRAM must be installed in bank DIMM 1.

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

Clear CMOS Data (JP5)

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

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

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 unplie the ATY power cable from the ATY power connector when							

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.



The SOYO CD

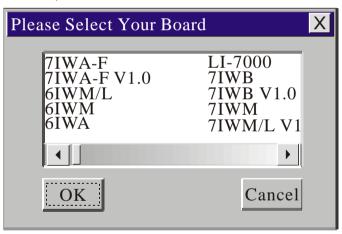


The SOYO-CD will NOT autorun if you use it on an Operating System other than Windows 9x or NT.

Your SY-SY-5SSM & SY-5SSM/5 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 The SOYO CD will auto-run, and the SOYO CD Start Up Menu will be as shown.

If you use Windows NT, the SOYO-CD will not detect your motherboard type. In that case the following dialog will pop up, please choose your motherboard and press OK. Now the SOYO-CD Start Up Menu will be shown.



(SOYO CD Start Up Program Menu)

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

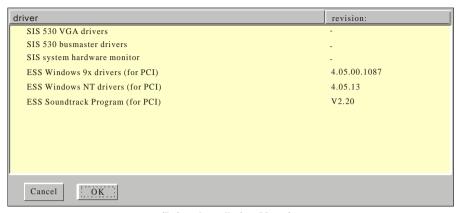


The user's manual files included on the SOYO CD are in PDF (Postscript Document) format. In order to read a PDF file, the appropriate Acrobat Reader software must be installed in your system.

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

Step 2. Install Drivers and Utilities

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



(Driver Installation Menu)

A short description of all available drivers follows:

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)

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)

SIS System Hardware Monitor

Install this utility to monitor the hardware status of your system

ESS Windows drivers for 9x and NT (For PCI)

These are the Windows drivers for the onboard soundchip. Make sure to first install these drivers before installing the ESS Soundtrack program.

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.

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.

Step 3. Check the Latest Releases

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

5 SiS VGA Driver Installation

Introduction

Your SY-5SSM V1.1 or SY-5SSM/5 V1.1 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 V1.1 or SY-5SSM/5 V1.1 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.INF
- SiS530P.SYS
- SiS530V.DII

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.
- 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:\DRIV-COM\SI530VGA\WINNT40.

- 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 NT system, select [Yes] to restart.
- 12. After restarting, Windows NT 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.
- 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].

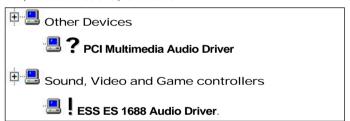
6 ESS™ Audio Driver Installation

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:

- 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].
- Insert the SOYO CD into the CD-ROM drive.
- 6. When the "Update Driver Wizard" appears, click [Next].
- 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:\DRIV-ALL\ESS-PCI\Win9x" path, and click [OK].
- 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.

Quick Trouble shoot tips

Video (no display) related issues

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

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

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

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

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

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

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

This is a common problem with AGP video cards. The reason is that your AGP card did not get seated into the AGP slot fully and firmly. Please push your AGP card down into the socket real hard, it should snap twice. You may have to unscrew

the AGP card to allow the card to go further down. Do take care not to damage the card by using too much force.

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

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

BIOS Issues

Where can I find the BIOS revision of my mainboard?

It will be displayed on the up-left corner on the screen during boot-up. It will show as your board type followed by the revision number, such as 5EH_2CA1 (meaning revision 2CA1 for the SY-5EH board) or 6BA+ IV_2AA2 which means SY-6BA+ IV motherboard with 2AA2 bios.

Where can I find the latest BIOS of my motherboard?

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

Hard disk, floppy drive, CD-ROM etc

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

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

Modem issues

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

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

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

If you are sure that the modern driver has been installed correctly, then you need to install the south bridge driver from the SOYO CD, this is because Windows does not properly recognize relatively new chipsets.

Audio Issues

I do not get any sound from my sound card. What could be wrong?

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

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

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

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

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

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

First, if you are using an ISA sound card, please make sure the IRQ needed for the sound card is set to 'Legacy ISA' in the bios. In other words, if your ISA sound card takes IRQ5, then set IRQ5 to 'Legacy ISA'. Next, install the 'south bridge' driver for the motherboard.

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

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

Lock up (freeze)

When I boot up my system, everything works fine. It sees my CPU and memory, detects my hard drive, floppy drive and CD-ROM but locks up at "Verify DMI pool data...", and it won't go any further. What should I do? Please clear the CMOS via JP5 then choose 'load setup default' in the bios and save the bios and exit. Next, unplug all other add-on cards except the video card and floppy drive controller, and see if it can boot from floppy. Then put back the peripherals one by one to identify which one causes the lockup. If you are running a Cyrix CPU, make sure the 'linear burst function' is enabled in the bios.

I can not get my board to run properly.

Please make sure you have the latest bios and driver from the SOYO web site at: http://www.soyo.com

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.

SOYO Taiwan

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Technical Support: Support Web Site:

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Vertrieb Mainboards, Notebooks und

SoyoCom Produkte: E-Mail: sales@soyo.de Fon: +49-(0)441/20910-31/33 Fax: +49-(0)441/203422

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Technical Support: tel: 82-2-717-4392 fax: 82-2-712-5853 e-mail: soyok@chollian.net

SOYO Hong Kong

Region Covered: Hong Kong

Web Site: www.soyo.com.hk

Sales:

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E-mail: <u>soyo@nkstar.com</u>

Technical Support: tel: 852-27109810 fax: 852-27109078

E-mail: soyo@hkstar.com

SOYO China (Gin Mei Jei)

Region Covered: All of China

Sales:

Tel: 86-10-62510089 fax: 86-10-62510388

E-mail: soyo@public.bta.net.cn

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E-mail: sovo@public.bta.net.cn

SOYO Japan

Region Covered: Japan

Web site: www.soyo.co.jp

Sales:

Tel: 81-3-33682188 Fax: 81-3-33682199

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Edition: June 2000 Version 2.5 SY-5SSM & SY-5SSM/5 V1.0 **SERIAL**