SY-6IEB Motherboard

Quick Start Guide

Onboard Sound Driver Installati

Introduction

Hardware nstallation

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

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SY-6IEB Motherboard

Pentium[®] II processor & Celeron[™] processor 82440 EX/LX AGP/PCI Motherboard 66MHz Front Side Bus supported 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".

6IEB Serial - Version 2.0 - Edition: March 1999

* These specifications are subject to change without notice

1 Introduction

Congratulations on your purchase of the **SY-6IEB** 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-6IEB 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-6IEB 82440 EX/LX AGP/PCI Motherboard
- This Quick Start Guide
- The Installation CD-ROM
- The CPU Retention Set
- One IDE Device Flat Cable
 - One Floppy Disk Drive Flat Cable

• One 9-pin serial connector with 9-pin flat cable and 6-pin PS/2 mouse connector with 6-pin cable

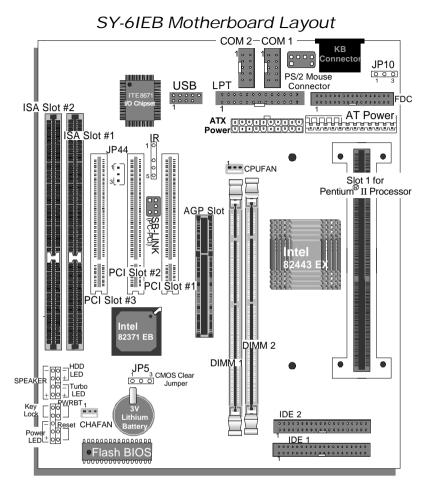
• One 25-pin parallel connector with 25-pin flat cable and 9pin serial connector with 9-pin flat cable







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- Supports Intel Pentium[®] II processors (233-333MHz) & Celeron [™] processors (266-433MHz)
- Auto-detect CPU voltage
- PC98, APM, ACPI, Ultra DMA/33
- Power-on by modem or alarm
- SOYO COMBO Setup
- Supports Wake-On-LAN (WOL)
- Power-on by Keyboard

- Supports Creative SB-LINK ™ (PC-PCI) for PCI audio card
- 1 x 32-bit AGP slot
- 3 x 32-bit bus mastering PCI slots
- 2 x USB ports
- > 1 x IrDA port
- Supports multiple-boot function
- Y2K Complaint
- AT & ATX power connectors

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-6IEB** Motherboard. For detailed information, please refer to *SY-6IEB 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:

- Slot 1 processor with built-in CPU cooling fan (boxed type)
- SDRAM module
- Computer case and chassis with adequate power supply unit
- Monitor
- PS/2 Keyboard
- Pointing Device (PS/2 Mouse)
- VGA Card
- Speaker(s) (optional)
- Disk Drives: HDD, CD-ROM, Floppy drive ...
- External Peripherals: Printer, Plotter, and Modem (optional)
- Internal Peripherals: Modem and LAN cards (optional)

Install the Motherboard

Follow the steps below in order to perform the installation of your new **SY-6IEB** Motherboard.

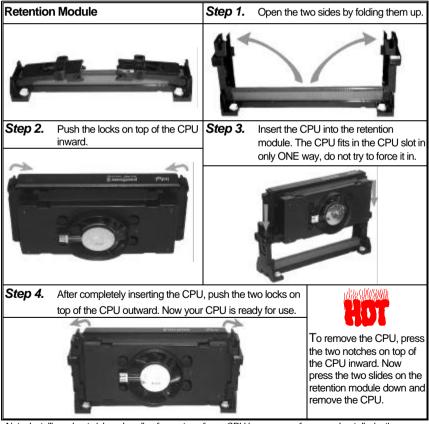
Step 1. Install the CPU

Mark your CPU Frequency: Record the working frequency of your CPU that should be clearly marked on the CPU cover.

FSB 66MHz

	333MHz (66 x 5.0)	400MHz (66 x 6.0)	
300MHz (66 x 4.5)	🔲 366MHz (66 x 5.5)	433MHz (66 x 6.5)	

CPU Mount Procedure: To mount the processor that you have purchased separately, follow these instructions.



Note: Installing a heat sink and cooling fan on top of your CPU is necessary for proper heat dissipation. Failing to install these items may result in overheating and possible burn-out of your CPU.

6

Step 2. 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, Chassis Fan, 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 SY-6IEB Motherboard, please refer to *SY-6IEB Motherboard User's Guide and Technical Reference* online manual on CD-ROM.

Connectors and Plug-ins

PCI Audio Card Header: SB-Link "(PC-PCI) Wake-On-LAN Header: J				IP44															
Connect the SB-Link ™(PC-PCI) cable from your				ır	Pin1 Pin2			Pin2		Pin3									
PCI audio card to this header.					5VSB GND MP-Wa				Vakeup										
CPU Cooling Fan: CPUFAN				Chassis Fan: CHAFAN															
Pin1		Pin2		Pin2				12 F			Pin1		1	Pin2			Pin3		13
GND				NSOR	NSOR GN			D		12V SEN		SENS	SOR						
Power LED Key Lock Speaker						P	owe	er LE		Keylo			κ (
1	່ 1	1		I		P	'in1	-	Pin2	Pin3		Pin1			Pin2				
000	$\mathcal{O}(\mathcal{C})$	\mathbf{O}) O C	$) \bigcirc$		Ę	δV	1	VC	GND	Co	ontrol	Pin	GND					
									Spe	aker	,								
						Pin1		Р	in2	F	Pin3		F	Pin4					
Reset PWRBT Turbo LED HDD LE				ED		5V		N	IC	NC			Speaker out						
HDD LED Turbo I				LED		PWRBT RESET					Т								
Pin1		Pin2	Pin	1	Pir	12 Pir		11	Pin2		Pin1		Pin2						
LED Anode	LED Anode LED LED				Pov	(- I\I)		D	D Power Good		iood	GND							
	Cathode Cathode					On/Off GND TONCIOCOU CIVD													
IrDA (In		-							AT Power Cable										
	Pin2	Pin3		in4	Pin5		-	Connect the AT Power cable to this											
	Vone	IRR>		ND	IRTX	X connector. If you use AT power supply. ATX Power Supply: ATX PW													
ATX Po										_	_								
	Connect your power switch to this Attach the ATX Power cable to this connector. If																		
header (momentary switch type). you use ATX power supply.																			
To turn off the system, please press this switch and hold down for longer thanWhen using the Keyboard Wake-Up function, please make sure the ATX 					(mA) to														
meet the standard ATX specifications.																			

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SY-6IEB Quick Start Guide

Step 3. Configure Memory

Your board comes with two DIMM sockets, providing support for up to 256MB of main memory using DIMM modules from 8MB to 128MB with no restriction on memory configuration. Therefore, you can install memory modules in any combination.

Memory Configuration

MEMORY	DIMM Banks					
CONFIGURATION	DIMM 1	DIMM 2				
RAM Type	EDO/SDRAM	EDO/SDRAM				
RAM Module Size (MB)	8/16/32/64/128	8/16/32/64/128				
 Note : There are two types of DIMM modules with different operating voltages: 3.3V and 5.0V. Please note that only 3.3V EDO DIMM modules can be used on this Motherboard. 						

Step 4. Set the CPU Frequency

You do not need to set any jumper for the CPU frequency. Instead, CPU settings are changed through the BIOS **[SOYO COMBO SETUP].** Please refer to *Chapter 3 - Quick BIOS Setup* for details on how to set the Pentium[®] II processor frequency.

Step 5. Enable/Disable the Keyboard Wake-Up (JP10)

You can choose to enable the Wake-Up by Keyboard or Mouse function by shorting pin 1-2 on jumper JP1, otherwise, short pin 2-3 to disable this function.

Support Wake-Up by Keyboard	Enable	Disable			
JP10 Setting	Enable Wake-up by Keyboard function 1 2 3 (short pin 1-2)	Disable Wake-up by Keyboard function 1 2 3 (short pin 2-3)			
Important: When using the Keyboard Wake-Up 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 6. Clear CMOS Data (JP5)

Clear the CMOS memory by momentarily shorting pin 2-3 on jumper JP5 for at least 5 seconds, and then by shorting pin 1-2 to retain new settings. This jumper can be easily identified by its white colored cap.

CMOS Clearing	Retain CMOS Data	Clear CMOS Data				
JP5 Setting	Short pin 1-2 to retain the new settings.	Short pin 2-3 for <i>at least 5 seconds</i> $\begin{bmatrix} 0 & 0 & -0 \\ 1 & 2 & 3 \end{bmatrix}$ to clear the CMOS.				
<i>Note:</i> You must unplug the AT/ATX power cable from the AT/ATX power connector when performing the CMOS Clear operation.						

Hardware

Note on Over-clocking Capability

The SY-6IEB provides over-clocking capability. Due to the over-clocking setting your system may fail to boot up or hang during run time. Please perform the following steps to recover your system from the abnormal situation :

- 1. Turn off system power.
- 2.Press and hold down the <Insert> key while turning on the system power. Keep holding down the <Insert> key until you see the message of the CPU type and frequency shown on the screen.
- 3.Press the key during the system diagnostic checks to enter the Award BIOS Setup program.
- Select [SOYO COMBO SETUP] and move the cursor to the [CPU Frequency] field to set the proper working frequency.
- 5.Select [Save & Exit SETUP] and press <Enter> to save the new configuration to the CMOS memory, and continue the boot sequence.

Note: SOYO does not guarantee system stability if the user over clocks the system. Any malfunctions due to over-clocking are not covered by the warranty.

3 Quick BIOS Setup

This Motherboard does not use any hardware jumpers to set the CPU frequency. Instead, CPU settings are software configurable with the BIOS **[SOYO COMBO SETUP]**. The [SOYO COMBO SETUP] menu combines the main CPU parameters that you need to configure, all in one menu, for a quick setup in BIOS.

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 configure the CPU settings.

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 [SOYO COMBO SETUP]

Move the cursor to the [CPU Speed] field to set the CPU working speed.

Available [CPU Speed] settings on your SY-6IEB Motherboard are detailed in the following table. If you set this field to [Manual], you are then required to fill in the next two consecutive fields: (1) the CPU Ratio, and (2) the CPU Frequency.

CPU	Speed	Select the working frequency of your Pentium [®] II, or Celeron [™] processor			
233MHz (66x3.5)	366MHz (66x5.5)	among these preset values.			
266MHz (66x4.0)	400MHz (66x6.0)	Note: Mark the checkbox that corresponds to the working frequency of			
300MHz (66x4.5)	433MHz (66x6.5)	your Pentium [®] II, or Celeron [™] processor in case the CMOS configuration should			
333MHz (66x5.0)		be lost.			

Step 4. 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-6IEB 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 [6IEB] Manual

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

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SY-6IEB Quick Start Guide

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**.

SOYO CD Manuals		X
Please select your man and click OK.	nual in the box bel	ow
6IEB	ОК Ва	nck

(Manual Selection Menu)

The user's manual files included on the SOYO CD can be read 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

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.

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 cause system malfunctions.

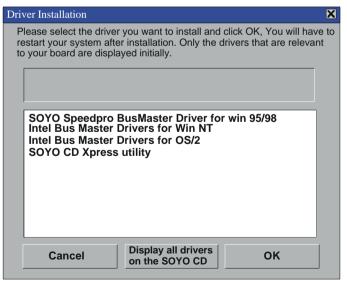
Hardware nstallation

Driver Installation X Please select the driver you want to install and click OK, You will have to restart your system after installation. Only the drivers that are relevant to your board are displayed initially. Intel Southbridge Drivers that are relevant to your board are displayed initially. Intel Southbridge Drivers SOYO Speedpro BusMaster Driver for win 95/98 Intel Bus Master Drivers for Win95 Intel Bus Master Drivers for Win NT Intel Bus Master Drivers for OS/2 SOYO CD Xpress utility Cancel Display all drivers on the SOYO CD OK

The following drivers are available for Windows 95

(Driver Installation Menu)

The following drivers are available for Windows 98



(Driver Installation Menu)

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A short description of all available drivers follows:

> Intel Southbridge Drivers

Because Windows 95 does not recognize the Southbridge of the newer Intel chipsets (TX, BX, ZX etc) this utility has to be run, it will update the necessary Windows files. (Only for Windows 95)

> 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.

- > Intel Busmaster Drivers for Windows 95
- Intel Busmaster Drivers for Win NT
- Intel Busmaster Drivers for OS/2

These are the official busmaster drivers as supplied by Intel.

Note: Do NEVER install two types of busmaster drivers on your system, this will lead to conflicts and system instability. Therefore, if you install the SOYO SpeedPro Busmaster driver you can NOT install the Intel Busmaster drivers. Before installing a new busmaster driver first UNINSTALL the old busmaster driver.

> SOYO CD Xpress Utility

This utility will enhance your CD-ROM Drive data-thoughput 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 abort the driver installation and return to the main menu.

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

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 cause system malfunctions.

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)

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http://auto.somanuals.com TV manuals search

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