SY-6IBM Motherboard

Quick Start Guide

Introduction
Hardware Installation
Quick BIOS Setup
The SOYO CD

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

100% POST CONSUMER RECYCLED PAPER

SY-6IBM Motherboard

Pentium® III, Pentium® II & Celeron™ processors
82440 BX AGP/PCI Motherboard
3D Audio & AGP built-in
66 & 100 MHz Front Side Bus supported
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".**

6IBM Serial - Version 1.2 - Edition: August 1999

* These specifications are subject to change without notice

1 *Introduction*

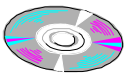
Congratulations on your purchase of the **SY-6IBM** Motherboard. This *Quick Start Guide* describes the steps for installing and setting up your new Motherboard.

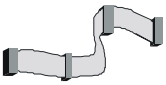
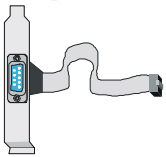
This guide is designed for all users to provide the basic steps of Motherboard setting and operation. For further information, please refer to *SY-6IBM Motherboard User's Guide and Technical Reference* online manual included on the CD-ROM packed with your Motherboard.

Unpacking

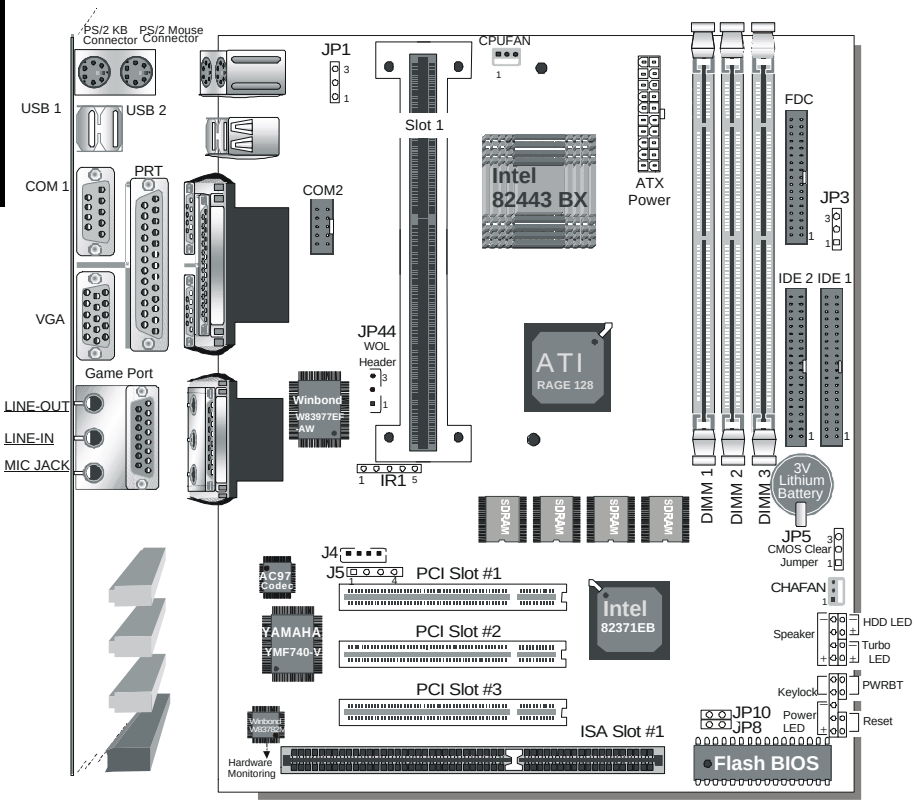
When unpacking the Motherboard, check for the following items:

- The SY-6IBM 82440 BX AGP/PCI Motherboard
- This Quick Start Guide
- The Installation CD-ROM
- SOYO 3-in-1 Bonus Pack CD-ROM (Norton AntiVirus, Ghost and Virtual Drive)
- The CPU Retention Set
- One IDE Device Flat Cable
- One Floppy Disk Drive Flat Cable
- Serial port flat cable with a 9-pin connector bracket



SY-6IBM Motherboard Layout



Key Features

- Supports Intel Pentium® III processor (450-600MHz), Pentium® II processor (233-450MHz) & Celeron™ processor (266-433MHz)
- Easy CPU settings in BIOS with the "SOYO COMBO Setup".
- 3D YAMAHA YMF740 Audio
- ATI Rage 128 Graphics/Video with 8MB Video memory on board
- Auto-detect CPU voltage
- PC98, APM, ACPI, Ultra DMA/33
- Power-on by modem or alarm
- Supports Wake-On-LAN (WOL)
- Supports Power-On by PS/2 Keyboard
- 3 x 32-bit bus mastering PCI slots
- 1 x 16-bit ISA slot
- 2 x USB ports
- 1 x IrDA port
- Supports multiple-boot function
- ATX power connector
- Power failure resume
- Y2K Complaint

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-6IBM** Motherboard. For detailed information, please refer to *SY-6IBM 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)
- 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: If you want to use an external speaker connected to "Line-out" port, please 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-6IBM** 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

❑ 266MHz (66 x 4.0)	❑ 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)	

FSB 100MHz

❑ 350MHz (100 x 3. 5)	❑ 450MHz (100 x 4.5)	❑ 550MHz (100 x 5.5)	❑
❑ 400MHz (100 x 4.0)	❑ 500MHz (100 x 5.0)	❑ 600MHz (100 x 6.0)	

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

Retention Module

Step 1. Open the two sides by folding them up.

Step 2. Push the locks on top of the CPU inward.

Step 3. Insert the CPU into the retention module. The CPU fits in the CPU slot in only ONE way, do not try to force it in.

Step 4. After completely inserting the CPU, push the two locks on top of the CPU outward. Now your CPU is ready for use.

To remove the CPU, press the two notches on top of the CPU inward. Now press the two slides on the retention module down and remove the CPU.

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.

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-6IBM Motherboard, please refer to *SY-6IBM Motherboard User's Guide and Technical Reference* online manual on CD-ROM.

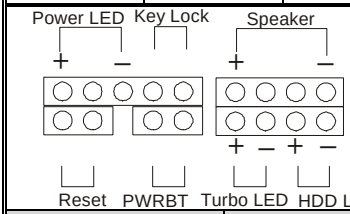
Connectors and Plug-ins

IrDA (Infrared Device Header): IR1				
Pin1	Pin2	Pin3	Pin4	Pin5
VCC	None	IRRX	GND	IRTX

Wake-On-LAN Header: JP44		
Pin1	Pin2	Pin3
5VSB	GND	MP-Wakeup

CPU Cooling Fan: CPUFAN		
Pin1	Pin2	Pin3
GND	12V	SENSOR

Chassis Fan: CHAFAN		
Pin1	Pin2	Pin3
GND	12V	SENSOR



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		Turbo LED		PWRBT		RESET	
Pin1	Pin2	Pin1	Pin2	Pin1	Pin2	Pin1	Pin2
LED Anode	LED Cathode	LED Cathode	GND	Power On/Off	GND	Power Good	GND

CD Line-in: J4, J5		Pin 1	Pin 2	Pin 3	Pin 4
Connect the CD Line-in cord from the CD-ROM device to the matching header J4 or J5.	J4	R	G	L	G
	J5	R	G	G	L

ATX Power On/Off: PWRBT	ATX Power Supply: ATX PW
Connect your power switch to this header (momentary switch type).	Attach the ATX Power cable to this connector. (This motherboard requires an ATX power supply, an AT power supply can NOT be used.)
To turn off the system, please press this switch and hold down for longer than 4 seconds.	***Note: Please make sure the ATX power supply is able to provide at least 720mA of current on the +5VSB lead if you want to enable the advanced power management functions, like power failure resume, Power-On by keyboard, etc.***

Step 3. 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 66MHz front side bus CPUs use 12ns or faster memory; for 100MHz front side bus CPUs use 8ns (100MHz, PC100 compliant) memory.

Memory Configuration Table

Number of Memory Modules	DIMM 1	DIMM 2	DIMM 3
1	1st		
2	1st	2nd	
3	1st	2nd	3rd

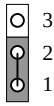
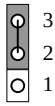
RAM Type	SDRAM
Memory Module Size (MB)	8/16/32/64/128/256 Mbytes

Note: **(1) 256 MB memory modules only available on PC registered DIMM.**
(2) Always install memory modules in the order prescribed in this table.
(3) Do not install unbuffered and registered memory modules together.

Important: It is of prime importance that you install DIMM modules as outlined in the table above in order to preserve signal integrity on 100MHz front side bus systems.

Step 4. Enable/Disable Power-On by PS/2 Keyboard (JP1)

You can choose to enable the Power-On by PS/2 Keyboard function by shorting pin 2-3 on jumper JP1, otherwise, short pin 1-2 to disable this function.

Support Power-On by Keyboard	Disable	Enable
JP1 Setting	Disable Power-On by PS/2 Keyboard function (short pin 1-2) 	Enable Power-On by PS/2 Keyboard function (short pin 2-3) 

Important: 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. Set JP3 for power up FSB clock and AGP bus clock.

JP3 is used to adjust AGP bus clock frequency depending on the value of the front side bus (FSB) clock, also the setting of the JP3 determines the power up FSB clock which will remain effective until the BIOS set the FSB clock to the CMOS setting.

JP3 Setting		
Power up FSB Clock	66MHz	100MHz
AGP Clock	AGP Clock = FSB Clock ÷ 1	AGP Clock = FSB Clock ÷ 1.5

Note1: The factory default setting for JP3 (Power up FSB clock and AGP bus clock) is 100MHz. CPUs that run on 66MHz may not boot at this frequency, so check JP3 before booting for the first time.

Also, if the user changes the CPU, care should be taken to set JP3 in accordance with the FSB Frequency of the new CPU.

Note2: The specification of maximum AGP bus Clock frequency is 66.6MHz.

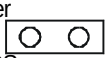
* Set JP3 to pin 1-2 short when you use a FSB 100MHz CPU.
* Set JP3 to pin 2-3 short when you use a FSB 66MHz CPU.
* Set JP3 to pin 1-2 short when you use a FSB 66MHz CPU but want to over clock the FSB clock to 100MHz via the BIOS setting.

Step 6. Set the CPU Working Frequency

You do not need to set any jumper for the CPU Working 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 Slot 1 processor frequency. For the power-up FSB and AGP clock frequencies, please refer to ***Step 5***.

Step 7. Power Button Enable (JP8)

Your system can be power on by either pressing a power button or typing in a password, which can be set in the BIOS SOYO COMBO Setup. To avoid being unable to power up the system due to of forgetting the password, you can place a jumper cap to short JP8. This will always enable the Power Button.

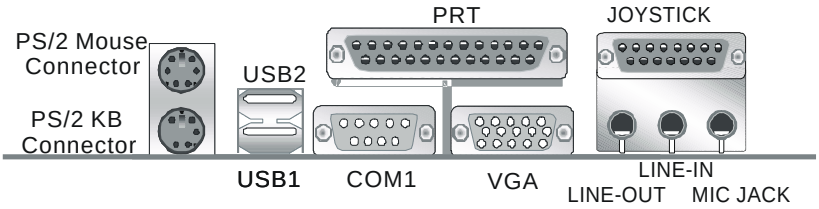
Power Button Enable	Power Button always enabled	Power Button according to BIOS setting
JP8 Setting	Short pin to always enable the Power Button.	Open pin for a Power Button function according to the BIOS setting. 

Step 8. External Suspend Button (JP10)

Some cases come with a suspend button, insert the plug into JP10. In addition to through this button, the system can also enter the suspend mode through your OS.

Note: *Suspend mode only functions if your Power Management mode is APM. Make sure that the BIOS setting for Power Management is APM. Windows 98 can be installed with ACPI Power Management (default is APM), in this case suspend mode will not function either.*

Step 9. Back Panel Connector



Step 10. 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 ***at least 5 seconds*** to clear the CMOS.
Note: You must unplug the ATX power cable from the ATX power connector when performing the CMOS Clear operation.		

Note on Over-clocking Capability

The 6IBM Motherboard provides over-clocking capability. Due to the over-clocking setting your system may fail to boot up or hang during run time. If this occurs, please perform the following steps to recover your system from the abnormal situation:

1. Turn off system power (If you use a ATX power supply, sometimes you have to press the power button for more then 4 seconds to shut down the system)
2. Set the JP3 to pin 2-3 short if you use a FSB 66MHz CPU
3. 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 (133MHz or 200MHz) appear on screen
4. Press the <Del> key during the system diagnostic checks to enter the Award BIOS Setup program
5. From the BIOS main menu, select [SOYO COMBO] and move the cursor to the [CPU Frequency] field to set the proper working frequency
6. Select [Save & Exit SETUP] and press <Enter> to save the 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 **<DEL>** 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-6IBM 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 Frequency		Select the working frequency of your Pentium® III, Pentium® II, Celeron™ processor among these preset values. ***Note:*** ☑ Mark the checkbox that corresponds to the working frequency of your Pentium® III, Pentium® II, Celeron™ processor in case the CMOS configuration should be lost.
❑ 233MHz (66 x 3.5)	❑ 350MHz (100 x 3.5)	
❑ 266MHz (66 x 4.0)	❑ 400MHz (100 x 4.0)	
❑ 300MHz (66 x 4.5)	❑ 450MHz (100 x 4.5)	
❑ 333MHz (66 x 5.0)	❑ 500MHz (100 x 5.0)	
❑ 366MHz (66 x 5.5)	❑ 550MHz (100 x 5.5)	
❑ 400MHz (66 x 6.0)	❑ 600MHz (100 x 6.0)	
❑ 433MHz (66 x 6.5)	❑	

Note: if you use Bus Frequencies of 75 MHz, make sure that your PCI cards can cope with the higher PCI clock.

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*

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

Your SY-6IBM 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.

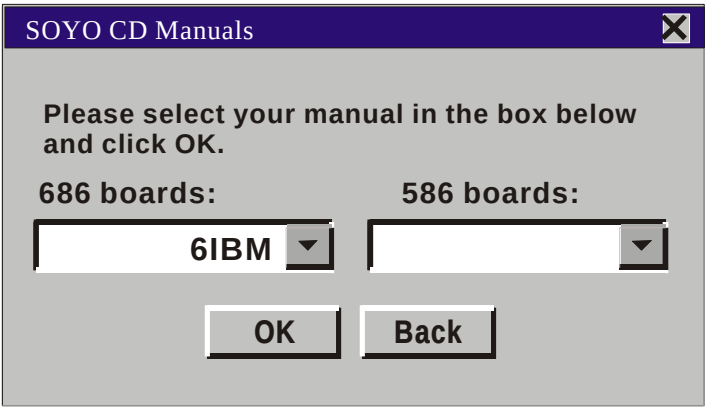
(SOYO CD Start Up Program Menu)

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 [6IBM] 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 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.

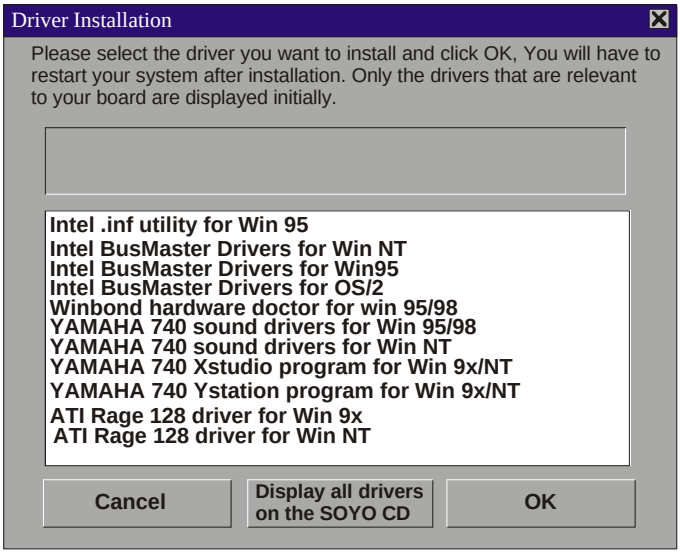
Note: The Start Up program automatically detects if the Acrobat Reader utility is already present in your system, and otherwise prompts you on whether or not you want to install it. You must install the Acrobat Reader utility to be able to read the user's manual file. Follow the instructions on your 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.

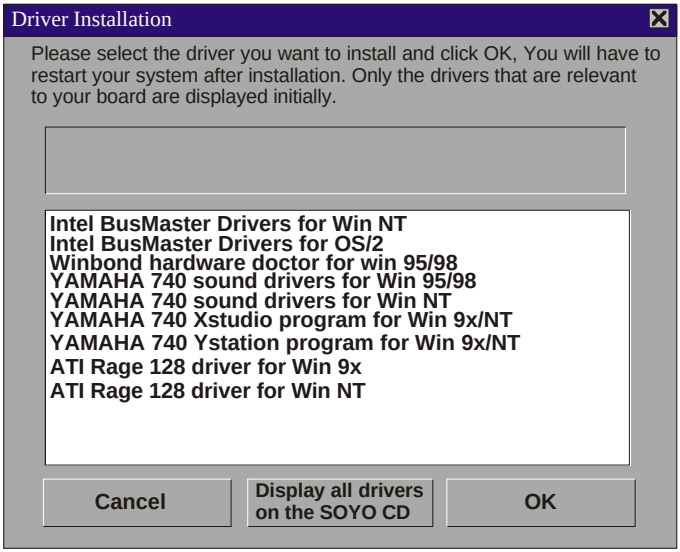
However, to display the list of all drivers software available with SOYO Motherboards, click the ***Display all drivers on the SOYO CD*** button. Please make sure to install only the drivers adapted to your system, or otherwise this may cause system malfunctions.

The following drivers are available for Windows 95



(Driver Installation Menu)

The following drivers are available for Windows 98



(Driver Installation Menu)

A short description of all available drivers follows:

- **Intel .inf utility for Win 95**

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 .inf files. (Only for Windows 95)

- **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.

- **Winbond hardware doctor for Windows 9x**

Your motherboard comes with a hardware monitoring IC. By installing this utility Temperature, Fan speed and Voltages can be monitored. It is also possible to set alarms when current system values exceed or fall below pre-set values.

This utility comes with a preset monitoring rage for the CPU voltage. However, the core voltage of the processor you purchased may fall out of this preset range, so you may need to adjust the pre-set value. Please refer to the SY-6IBM Motherboard 's CD manual for the details.

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.

- **YAMAHA 740 Sound Drivers for Win95/98 and Win NT**

Before installing any of the YAMAHA application programs, you MUST first install the YAMAHA 740 drivers for Windows 9x or NT.

- **YAMAHA 740 Xstudio program for Win 9x/NT**
- **YAMAHA 740 Ystation program for Win 9x/NT**

These Application programs allow the user to make full use of the functionality that the Yamaha sound chip has to offer. Make sure to install the Yamaha driver for your OS before installing any of the application software.

- **ATI Rage 128 driver for Win 9xand Win NT**

Select this Item and click OK to start up the ATI Rage 128 AGP driver screen. Follow the instructions on the screen to install the drivers and/or application programs you need.

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 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 visualize 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*.

SOYO Taiwan

No. 21 Wu-Kung 5 Rd., Hsin Chuang City, Taipei Hsien, Taiwan

Region Covered: Taiwan and Asia-Pacific. (Including Australia).

Web Site: www.soyo.com.tw

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SOYO USA

41484 Christy Street, Fremont, CA 94538

Region Covered: US and Canada

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Sales:
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SOYO (U.K.) LTD.

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Web Site: www.saat.de, www.soyo-saat.com, www.soyo-saat.de

Vertrieb Mainboards, Notebooks und SoyoCom Produkte:
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SOYO KOREA

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SOYO Hong Kong

Region Covered: Hong Kong

Web Site: www.soyo.com.hk

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SOYO China (Gin Mei Jei)

Region Covered: All of China

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SOYO Japan

Region Covered: Japan

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