SY-P4VGM Motherboard

Quick Start Guide

Introduction
Hardware Installation
Quick BIOS Setup
The SOYO CD
VIA USB 2.0 Driver Installation

1. **Please read the users guide before proceeding with your installations. Serious damage may occur if the procedure is not followed properly.**
2. Please make sure that your memory modules are inserted correctly. They can go in only one way, and should fit completely in the socket without sticking out.
3. If you have a Pentium 4 motherboard, you need to use an ATX12V power supply (power supply for Pentium 4 system) is required for the system to operate normally. (preferably 350 watts for minimal loading or 400 watts for fully loaded system)
4. If you have any problem getting your system to work, please follow the troubleshooting tips in your user manual.
5. On some mainboards, the actual chipset cooler may differ from the chipset cooler as shown on the picture or on the box. However, the chipset fan on the mainboard is of the same quality and will work just as well as the one shown in the picture. (The chipset cooler is as sufficient as the chipset fan based on different design.)
6. For immediate Technical questions, please visit SOYO tech support link at http://www.soyousa.com/support and http://www.soyousa.com/kb.

SY-P4VGM Motherboard

mPGA Socket 478 Processor supported
VIA P4M266A AGP/PCI Motherboard
533/400 Front Side Bus supported
Micro ATX Form Factor

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About This Guide:

This Quick Start Guide can help system manufacturers and end users in setting up and installing the motherboard. Information in this guide has been carefully checked for reliability; however, to the correctness of the contents there is no guarantee given. The information in this document is subject to amend without notice.

For further information, please visit our **Web Site** on the Internet. The address is **"http://www.soyo.com.tw".**

P4VGM Series - Version 1.0- Edition: August 2003

* These specifications are subject to amend without notice

1 Introduction

This SY-P4VGM mainboard has a **Socket 478** for the **Intel Pentium 4** type of processors supporting front side bus (FSB) speeds up to **533 MHz**.
Hyper Threading Technology, designed to take advantage of the multitasking features in Windows XP, gives you the power to do more things at once.

Unpacking

When unpacking the motherboard, check for the following items:

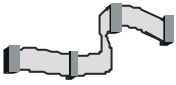
- The SY-P4VGM AGP/PCI Motherboard

- The user manual

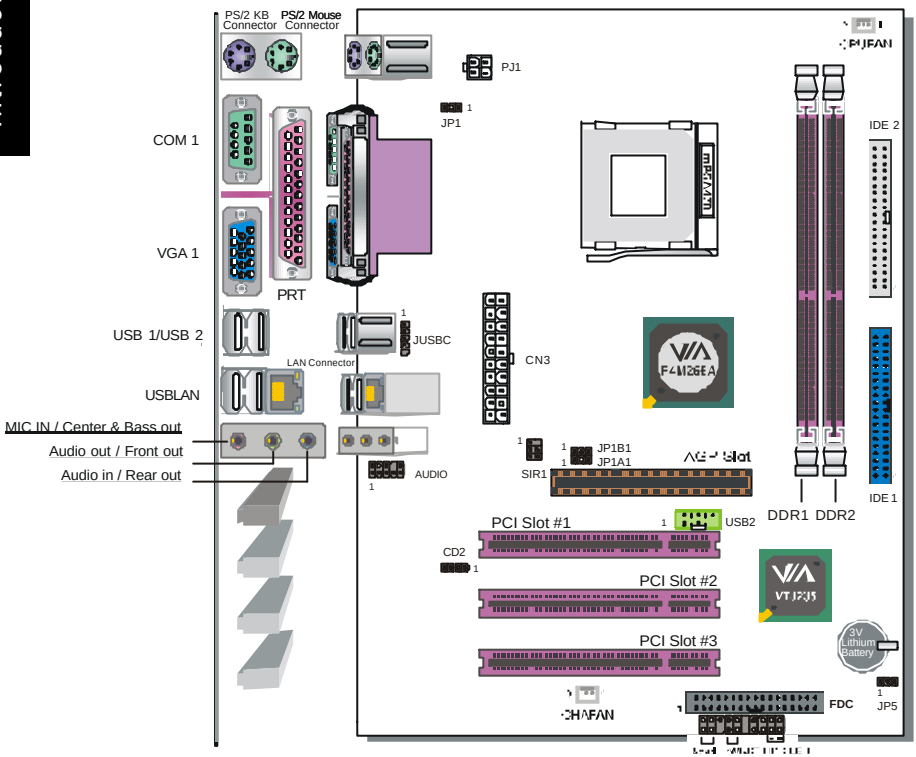
- The Installation CD-ROM

- One IDE Device ATA 66 Flat Cable

- One Floppy Disk Drive Flat Cable



SY-P4VGM Motherboard Layout



Key Features

CPU	Socket 478 Processor The PGA Socket 478 ➢ Supports **Intel Pentium 4 series** CPU with/without **Hyper Threading** Technology ➢ Supports a front-side bus (FSB) of 533 MHz
Chipset	VIA P4M266A Northbridge / VT8235 Southbridge
Memory	➢ The mainboard accommodates two 184-pin, 2.5V DDR DIMM sockets with a total capacity of 2 GB system memory. ➢ Supports PC1600 and PC2100 memory bus
AGP	1x AGP master 4x slot
PCI	3x 32-bit bus master PCI slots
Super I/O	Super I/O controller supporting : ➢ Two PS/2 ports for mouse and keyboard ➢ One serial port ➢ One VGA port ➢ One parallel port ➢ Six USB2.0 ports (four back-panel ports, onboard USB header providing two extra ports) ➢ Audio jacks for microphone, line-in and line-out
Storage	8235 Integrated Parallel ATA controller supporting up to 4x UDMA 33/66/100/133 Parallel ATA devices.
USB 2.0	6x USB 2.0 compliant ports (4x on rear IO panel, 2x motherboard connectors.
Sound	Onboard AC97 2 channel Audio Codec
Network	10/100 MBps/100Base-T Ethernet controller, supporting Wake-On-Lan (WOL)
Industry standards	This motherboard is compliant with the following industry standards : ➢ Microsoft PC99 ➢ FCC ➢ ACPI

2 Installation

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

- Before handling the motherboard, ground yourself by touching on to an unpainted portion of the system's metal chassis.
- Remove the motherboard from its anti-static packaging. Hold the motherboard by the edges and avoid touching its components.
- Check the motherboard for damage. If any chip appears to be loose, press carefully to seat it firmly in its socket.

Follow the directions in this section, which is designed to guide you through a quick and correct method to install your new motherboard. For detailed information, please refer to the *motherboard User's Manual and Technical Reference* online manual on the CD-ROM package that came with your motherboard.

Gather and prepare all necessary components to complete the installation successfully:

- Socket A processor with CPU cooling fan (boxed type)
- DDR RAM module(s)
- Computer case with adequate power supply unit
- Monitor
- PS/2 or USB Keyboard
- Pointing Device (PS/2 or USB Mouse)
- Speaker(s) (optional)
- Disk Drives: HDD, CD-ROM, Floppy drive…
- External Peripherals: Printer and Modem (optional)
- Internal Peripherals: Modem and LAN cards (optional)

Note: 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

We will now begin the installation process. Please follow the following procedure to lead you to a complete and correct installation.

Step 1- Install the Central Processing Unit (CPU)

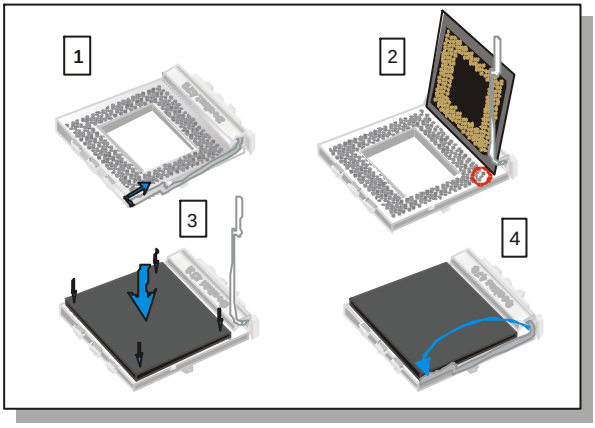
Step 2- Install memory modules

Step 3- Connect cables, case wires, power supply and install expansion cards

Step 4- Install expansion cards

Step 1. Install the CPU

CPU Mount Procedure: To mount the Pentium® 4 Socket mPGA478 processor that you have purchased separately, follow these instructions.



1. Lift the socket handle up to a vertical position.
2. Align the blunt edge of the CPU with the matching pinhole 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 on the Motherboard. *The fan is a key component that stabilizes the system. It prevents the equipment from overheating and prolongs the life of your CPU.*

JP1A1, JP1B1: CPU front Side Bus settings

Use this jumper to enable the selection of the CPU frequency.

CPU Clock	JP1A1	JP1B1
100 MHz		
133 MHz		

Check the motherboard layout on page 4 for the JP1A1 and JP1B1 location

Step 2. Configure Memory

Your board comes with two DIMM sockets, providing support for up to 2GB of main memory using unbuffered and non-ECC DIMM modules.

Memory Configuration Table

Number of Memory Modules	DIMM 1	DIMM 2
RAM Type	DDR RAM (non-ECC and non-registered)	
Memory Module Size (MB)	128 / 256 / 512 / 1024 MB	

Step 3. Installation of Expansion Cards

The motherboard has 1 AGP slot and 3 PCI slots.

1. Read the instruction document of the related expansion card before inserting the expansion card into the computer.
2. Press the expansion card firmly into expansion slot in the motherboard.
3. Make sure the metal contacts on the card are correctly seated in the slot.
4. Replace the screw to secure the slot bracket of the expansion card.
5. Install driver for the operating system you use.

Step 4. Connections to the Motherboard

Refer to the following for information on connecting the SY-P4VGM mainboard's devices:

Connectors and Plug-ins

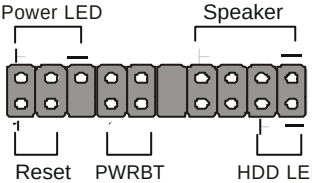
AUDIO (Front Panel Audio Header)									
Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8	Pin9	Pin10
MIC IN	GND	VCC MIC	+5V AUDIO	LINE OUT(R)	LINE OUT (R)	NC	EMPTY	LINE OUT (L)	LINE OUT (L)

USB2 (Front panel USB Connector)									
Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8	Pin9	Pin10
VERG_FP_ USBPWR0	VERG_FP_ USBPWR0	USB_FP_ P0-	USB_FP_ P1-	USB_FP_ P0+	USB_FP_ P1+	GND	GND	KEY	USB_FP_ OC0

JUSBC (These pins shared with one of the USB port of the I/O back panel)				
Pin1	Pin2	Pin3	Pin4	Pin5
VCC	USB-	USB+	GND	KEY

SIR1 (Infrared Port)					
Pin1	Pin2	Pin3	Pin4	Pin5	Pin6
NC	KEY	+5V	GND	IRTX	IRRX

CD2 (Internal Sound Connections)	Pin1	Pin2	Pin3	Pin4
Connect the CD Line-in cord from the CD-ROM/ DVD device to the matching connector CD2	CD IN L	GND	GND	CD IN R



Power LED		
Pin1	Pin2	Pin3
VCC	NC	GND

Speaker			
Pin1	Pin2	Pin3	Pin4
VCC	NC	NC	Speaker out

HDD LED		PWRBT		RESET	
Pin1	Pin2	Pin1	Pin2	Pin1	Pin2
LED Anode	LED Cathode	Power On/Off	GND	Control PIN	GND

Power On/Off: PWRBT

Connect your power switch to this header (momentary switch type).

To turn off the system, press this switch and hold down for longer than 4 seconds.

ATX 12V Power Supply: ATX PW

Attach the ATX 12V Power cable to three connector. (This motherboard requires an ATX 12V power supply, an AT or ATX power supply can NOT be used.)

When using the Power-On by Keyboard function, please make sure the ATX power supply is able to provide at least 720mA on the 5V Standby lead (5VSB).

Keyboard Power On (JP1)

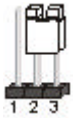
Use this jumper to enable any keyboard activity of powering up a system, which is previously in a standby or sleep state.

Keyboard Power On	5V	5VSB
JP1 Setting	Short pin 1-2	Short pin 2-3

CMOS Clear (JP5)

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

1. Clear the CMOS memory by momentarily shorting pin 2-3 on jumper JP5. Its white cap can easily identify this jumper.
2. Put the jumper back to 1-2 to allow writing of new data into the CMOS memory.

CMOS Clearing	Clear CMOS Data	Retain CMOS Data
JP5 Setting	Short pin 2-3 for at least 5 seconds to clear the CMOS 	Short pin 1-2 to retain new settings
Note: You must unplug the ATX power cable from the ATX power connector when performing the CMOS Clear operation.		

3 Quick BIOS Setup

After the hardware installation is complete, turn the power switch on, then press the **<DEL>** key during the system diagnostic checks to enter the Award BIOS Setup program. The CMOS SETUP UTILITY will be shown on the screen. Then, follow these steps to configure the CPU settings.

Step 1. Select [STANDARD CMOS SETUP]

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

Step 2. Select [LOAD OPTIMIZED DEFAULTS]

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

Step 3. Select [SAVE & EXIT SETUP]

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

4 The SOYO CD

The SOYO-CD will Auto Run only in Windows Based Operating Systems.

Your SY-P4VGM motherboard comes with a CD-ROM labeled "SOYO CD." The SOYO CD contains

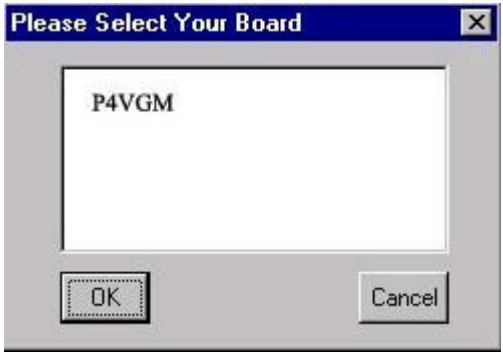
a. The user's manual for your new motherboard in PDF format,

b. The drivers software available for installation, and

c. A database in HTML format with information on SOYO motherboards and other products.

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

If you are running Windows NT/2K/XP, the SOYO-CD will not detect your motherboard type. In that case the following dialog will pop up. Please choose your motherboard model number and press OK.



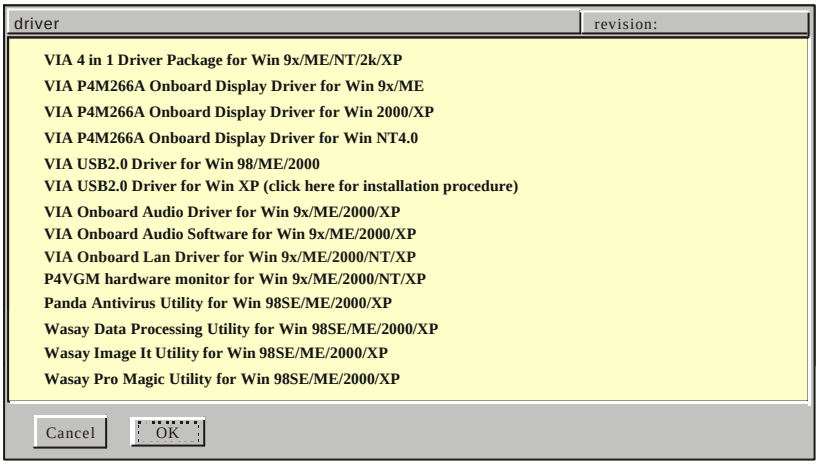
Now the SOYO-CD Start Up Menu will come up as shown on the following page:

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

Note: The Start Up program automatically detects if the Acrobat Reader utility is already present on 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. 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 driver software that can be installed for 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:

- **VIA 4 in 1 Driver Package for Win 9x/ME/NT/2k/XP**

VIA 4 In 1 driver includes four system drivers to improve the performance and maintain the stability of systems using VIA chipsets. These four drivers are:
VIA Registry (INF) Driver, VIA AGP VxD driver, VIA ATAPI Vendor Support Driver and VIA PCI IRQ Miniport Driver. For Windows NT users, the VIA IDE Bus Mastering driver is the only driver to be installed on your system.

- **VIA P4M266A Onboard Display Driver for Win 9x/ME/2000/XP/ NT**

This program will install the onboard display (ProSavage DDR) driver on your computer.

- **VIA USB2.0 Driver for Win 98/ME/2000**

This setup program will install the driver for VIA USB 2.0 Host Controller.

- **VIA Onboard Audio Driver for Win 9x/ME/2000/XP**

This program will install the onboard audio (VIA Audio) driver on your computer.

- **VIA Onboard Audio Software for Win 9x/ME/2000/XP**

This program will install VIA Sound Player on your computer.

- **VIA Onboard LAN Driver for Win 9x/ME/2000/NT/XP**

This program will install onboard LAN (VIA LAN) driver on your computer.

- **P4VGM Hardware Monitor for Win 9x/ME/2000/NT/XP**

Your motherboard comes with a hardware monitoring IC. By installing this utility Temperature, Fan speed and Voltages can be monitored from windows.

- **Panda Anti Virus Utility for Win 98SE/ME/2000/XP**

Anti Virus software for Windows 98SE/ME/2000/XP.

- **Wasay Data Processing Utility for Win 98SE/ME/2000/XP**

Wasay Data Processing Utility is an instant file restoration program that not only provides convenient & instant file recovery but also helps to manage your files.

- **Wasay Image It Utility for Win 98SE/ME/2000/XP**

Data Image software.

- **Wasay Pro Magic Utility for Win 98SE/ME/2000/XP**

ProMagic is an instant system recovery software that provides convenient instant restoration to the preferred state at any specific restore time point as desired.

Select which driver you want to install and click ***OK,*** or click ***Cancel*** to abort the driver installation and return to the main menu.

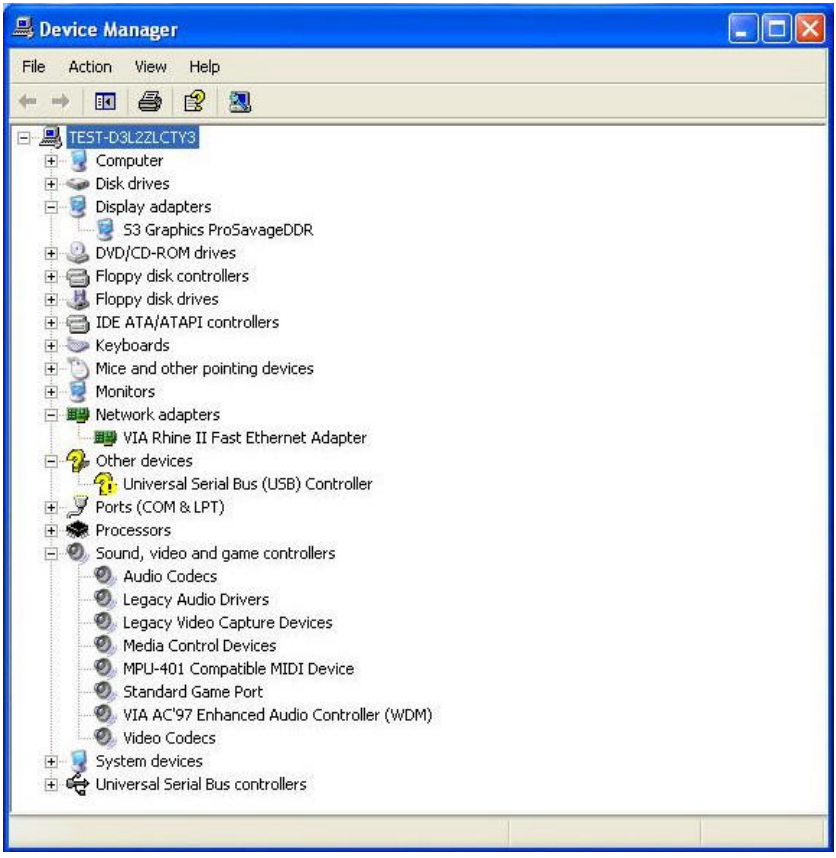
Note: Once you have selected a driver, the system will automatically exit the SOYO CD to begin the driver installation program. When the installation is complete, most drivers require a restart of your system before they become active.

Step 3. Check the Latest Releases

Click the 'Connect to SOYO website' button to go the SOYO Website to 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 internet connection up before clicking this button.

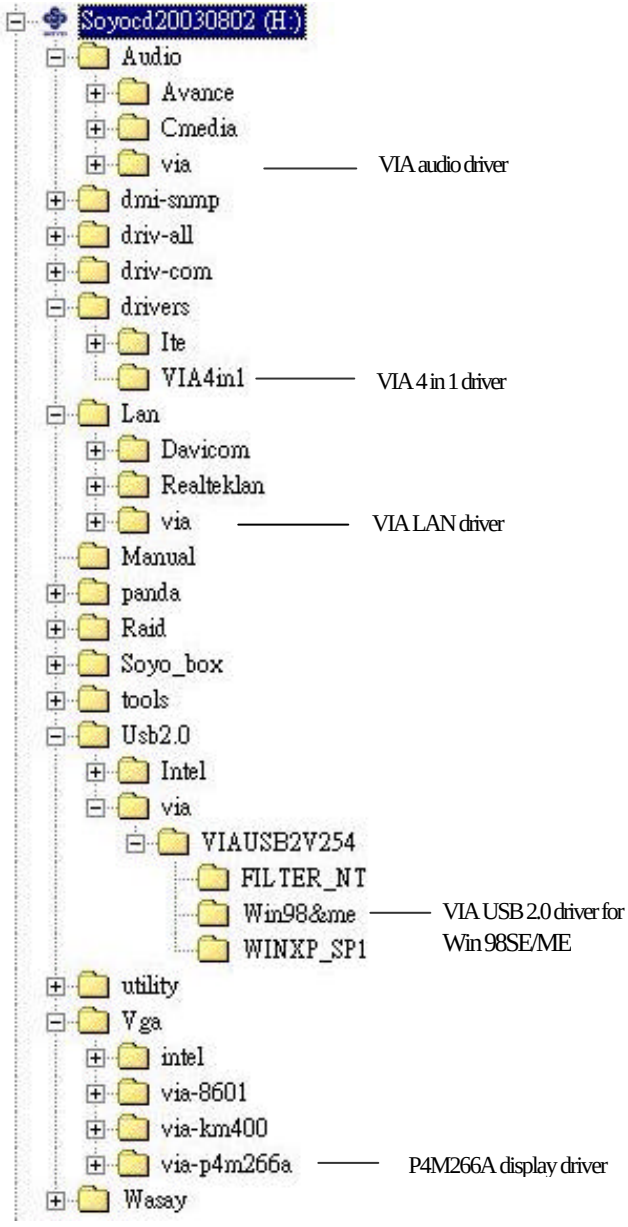
After Windows XP installation, your device manager should look like this:

After driver installation, your Windows XP device manager should look like this:



Note: To install the USB 2.0 driver, please update to Windows XP service pack 1.

Directory list of the driver CD



5 VIA USB2.0 Driver Installation

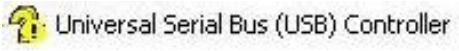
Installing the VIA LAN Drivers under Windows XP

USB 2.0 Drivers are available for download using Windows Update for both Windows XP. Alternatively, installing service pack 1 will also install the USB 2.0 drivers.

For additional information regarding USB 2.0 support in Windows XP, please visit http://www.microsoft.com/hwdev/bus/USB/default.asp

After installing service pack 1, please do the following:

1) Go into the device manager.

2) Remove "  ".

3) Restart your system.

Next time Windows XP starts up a new USB 2.0 controller will be found.

Quick Trouble shoot tips

Boot-up Issues

The system does not power-up, no beeping sound heard and the CPU fan does not turn on.

1. Check if the power cord is plug to the power source.
2. Check if the power is connected to the M/B.
3. Check if the cable of the case power button is connected to the M/B power button connector (see connectors and plug-ins in the manual for more info).
4. Make sure the power supply is not defective. Change the power supply. The minimum should be 350 watt for a minimally loaded system or 400 watt for a fully loaded system.
5. Remove the M/B from the case and test the system. The M/B might be shorted to the case.
6. Make sure your power supply is ATX 12V compliant.

The system powers-up, no video, no beeping sound heard, but the CPU fan is turning.

1. Clear CMOS RAM. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
2. Check all the jumper settings on the M/B.
3. Check if the CPU is ok by using another CPU (check the Quick start guide for CPU supported on this M/B).
4. Check if the power supply is ok. The minimum should be 350 watt for a minimally loaded system or 400 watt for a fully loaded system.
5. Make sure the CPU fan is connected to CPUFAN1 connector.
6. Remove the M/B from the case and test the system. The M/B might be shorted to the case.

The system power-up, no video, beeping heard.

1. Clear CMOS battery. (JP5 connector, see the Quick start guide for more info on how to clear the CMOS).
2. Check if the memory module and the VGA card are inserted properly in the M/B.
3. If yes, change the memory module, it might be defective. Make sure the memory specification is supported by the M/B. (for more info on this, check our FAQ website).

The system turns on for some seconds then shuts down by itself.

1. Check if the CPU fan is connected to the CPUFAN1 connector.
2. The CPU might be overheating. Check the CPU FAN if it is defective or see if the CPU fan is in contact with the CPU.

3. Clear CMOS battery. (JP5 connector, see the Quick start guide for more info on how to clear the CMOS).
4. Make sure the power supply you have on your system supports the M/B specification. Example. If you have a P4 M/B, you need to use a P4 power supply.
5. If you already checked the power supply specification, change the power supply. It might be defective. The minimum is 350 watt for a minimally loaded system or 400 watt for a fully loaded system.

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... ". Don't go any further. What should I do?

1. Clear CMOS battery. (JP5 connector, see Quick start guide for more info on how to clear the CMOS).
2. If still has the problem, remove all other add-on cards except the video cards see if it boots further. Then put peripherals in one by one to identify which one causes the lockup.
3. Change the CPU.
4. Make sure the boot device (Harddisk, CDROM, Floppy, etc...) you are trying to boot from contains a valid, bootable medium or is bootable.

During Boot-up, my computer says CMOS memory Checksum error. What is the problem?

1. Clear CMOS memory.
2. Redo your CMOS setup settings. If your battery is empty, the error will occur more frequently. You will need to replace the battery in this case. If the problem persists, re-flash the BIOS. If all fails your BIOS chip is failing and needs to be replaced.
3. Change the CMOS battery.
4. Re-flash BIOS.
5. The BIOS chip might be failing.

Stability Issues

My system intermittently locks up, very unstable.

1. Check the CPU Temp, it might be overheating. Change the CPU FAN.
2. Do not overclock your CPU.
3. Check the specification of the memory module, maybe the M/B does not support it.
4. Go to BIOS setup and load fail safe settings. Please check if the system performance in the BIOS setup is set to Turbo/Maximum. If so, try setting it to normal.
5. Check website for latest BIOS update.
6. Check website for FAQ's regarding instability issues.
7. Change the memory module or CPU.

8. The power supply might not have enough wattage to support all the peripherals. If your system has other peripherals connected, like CD-RW, extra HDD, etc. disconnect them.
9. Install the VIA 4 in 1 driver.

My system intermittently locks up, during Windows installation.

1. Go to BIOS and load "load optimized defaults".
2. Check website for any BIOS update.
3. If it still has the problem, remove all other add-on cards except CPU/ Memory/ Video card/Hard disk. See if you can finish Windows installation. Then put peripherals in one by one to identify which one causes the lockup.

BIOS Issue

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 kvxa_2BA1 (meaning BIOS revision 2BA1 for the SY-K7V Dragon plus! board) or 6BA+ IV_2AA2 which means SY-6BA+ IV motherboard with 2AA2 BIOS.

Where can I find the latest BIOS for my motherboard?

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

How can I flash the BIOS?

You can:

1. Download the BIOS from our support website.
2. Make a bootable floppy disk with out any memory manager loaded (i.e. himem, emm386, etc…).
3. Copy the BIOS file and awdflash utility to the diskette.
4. Type "awdflash biosname.bin /sn /py".
5. Then reboot.

Or:

1. Download the BIOS from our support website.
2. Copy the BIOS to an empty floppy disk. (No other files on the disk!)
3. Press <ALT> <F2> after memory initialization.
4. The system will now automatically flash and reboot.

Note: That flashing from the BIOS is only possible if you use a normal floppy drive. It can't flash from any other device.

After flashing the BIOS, my system will not boot-up.

1. Try clearing the CMOS RAM.
2. The BIOS chip is defective due to an unsuccessful flash, contact your nearest SOYO branch for re-flashing.

Is there a way to reprogram my BIOS after an unsuccessful flash?

There is no other way, you need to send back the BIOS ROM to your nearest SOYO branch for re-flashing.

VGA Issue

I cannot set my VGA to go higher than 16 color (640x 480).

1. Make sure that you have installed the VIA 4 in 1 driver set.
2. Install/ re-install the VGA driver.

After wake-up from Suspend to RAM or Standby mode, the screen has no display but I can hear the hard disk operating (For External AGP card).

Check your VGA card's manufacturer for a driver and VGA BIOS update, make sure the VGA card supports the Suspend to Ram function.

Audio Issue

How can I disable the on-board Audio?

Go to "Integrated Peripherals\VIA Onchip PCI Device" in the BIOS setup, then set the "AC97 Audio" to disabled.

I cannot get the sound working on my system.

1. Check if the speaker wire is connected to the line out connector in the M/B.
2. Check if your speakers are powered on.
3. Install the audio driver supplied on our driver disc.
4. Check BIOS setup if "AC97 Audio" is enabled.
5. If sound already installed, check our website for an audio driver update.

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 4wire audio cable from the CD-ROM to the on-board CDIN connector or AUX connector on the M/B is not connected. See manual for location of CDIN.

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

1. Please go to sound properties and check if the recorder and microphone are enabled in the audio rack.
2. Check if the Microphone is ok.

Added PCI Audio Card does not work on this motherboard.

1. Go to "Integrated Peripherals\VIA Onchip PCI Device" and Disable "AC97 Audio".
2. Go to integrated peripherals and Disable "Game port address" and "Midi port address".

Hard disk/FDD/ CD-ROM issues

My Western digital HDD is not detected during boot-up

Change the jumper settings to cable select or single.

Sometimes the system finds my CD-ROM, sometimes not

1. Check CD-ROM if it is working properly.
2. The power supply might not have enough wattage to support all the peripherals. If your system has other peripherals connected, like CD-RW, extra HDD, etc. disconnect them.

When I boot up my new computer I get "floppy boot failure" and the LED on the floppy stays on

1. 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).
2. Some floppy drivers have their own jumper to make the same twist as the twist on the cable. Make sure this jumper is set not to "twist" the cable while the floppy drive is connected to the twisted end of the cable.

LAN Issues

During LAN driver installation, the system hangs on 75%, why?

Enable the onboard LAN in the BIOS setup.

I have problems installing Novell NetWare v.50

Disable the APIC option in the BIOS.

For updated FAQs, please check http://www.soyo.com.tw/faq.htm **or** http://www.soyousa.com/faqs.html

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.

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