



SY-P4RS300 Motherboard

Quick Start Guide

**USB 2.0 Driver
Installation**

The SOYO CD

**Quick BIOS
Setup**

**Hardware
Installation**

Introduction



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-P4RS300 Motherboard

mPGA Socket 478 Processor supported
ATi RS300 AGP/PCI Motherboard
800/533/400 Front Side Bus supported
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>".

P4RS300 Series - Version P1.0- Edition: October 2003

* These specifications are subject to amend without notice

1 Introduction

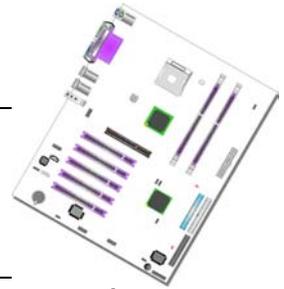
This SY-P4RS300 mainboard has a **Socket 478** for the **Intel Pentium 4** type of processors supporting front side bus (FSB) speeds up to **800 MHz**.

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-P4RS300 AGP/PCI Motherboard



- ◆ The user manual



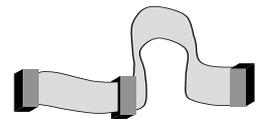
- ◆ The Installation CD-ROM



- ◆ The SOYO Bonus Pack CD-ROM



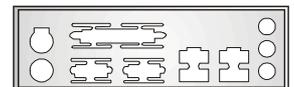
- ◆ One IDE Device ATA 66 Flat Cable



- ◆ One Floppy Disk Drive Flat Cable

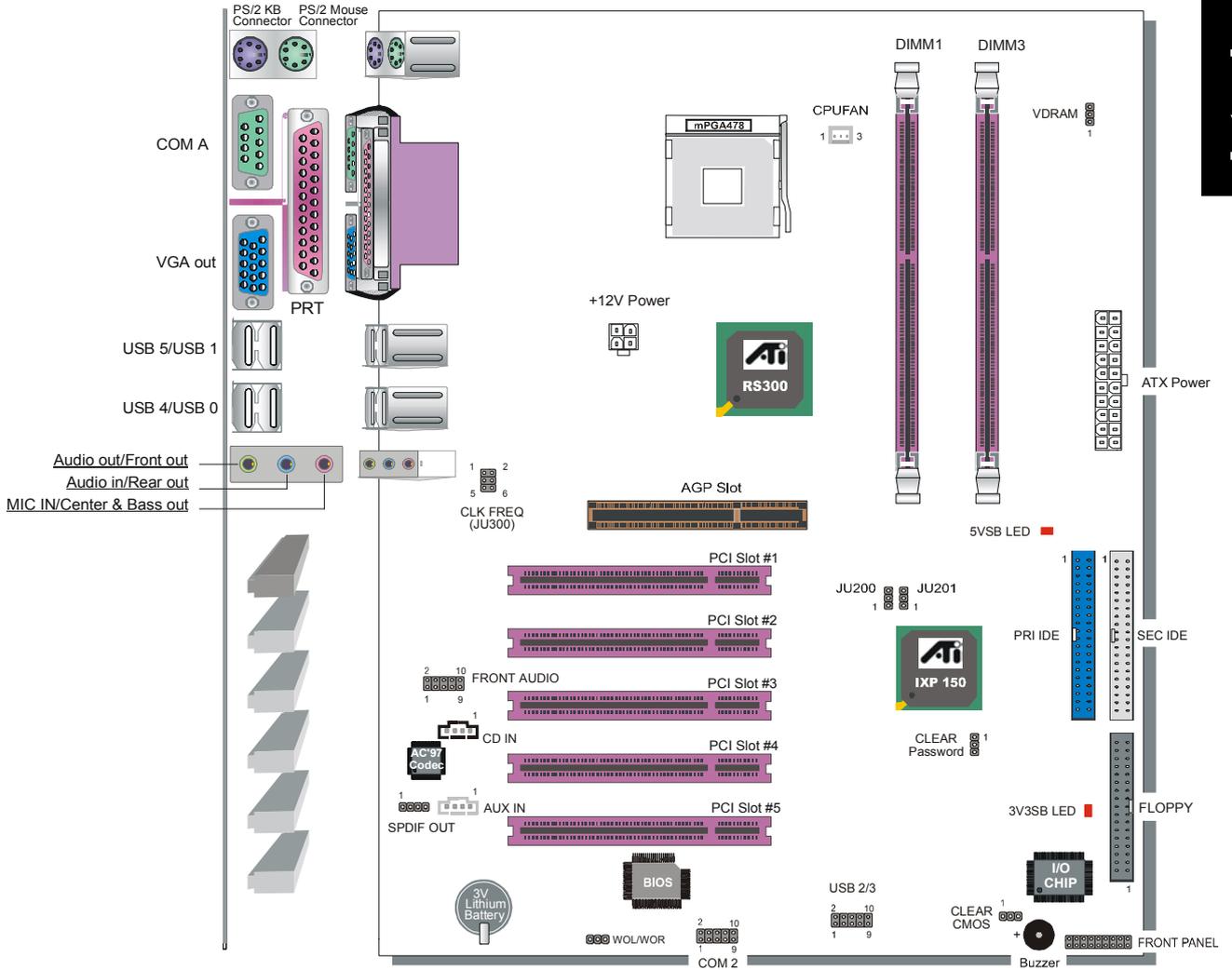


- ◆ One Back Panel



SY-P4RS300 Motherboard Layout

Introduction



Key Features

CPU	Socket 478 Processor The PGA Socket 478 <ul style="list-style-type: none">➤ Supports Intel Pentium 4 series CPU with/without Hyper Threading Technology➤ Supports a front-side bus (FSB) of 800 MHz
Chipset	ATI RS300 Northbridge / IXP 150 Southbridge
Memory	<ul style="list-style-type: none">➤ The mainboard accommodates two 184-pin, 2.5V DDR DIMM sockets with a total capacity of 2 GB system memory.➤ Supports PC2100, PC2700 and PC3200 memory bus
AGP	1x AGP master 4x slot On-board ATI 9000 VGA controller.
PCI	5x 32-bit bus master PCI slots
Super I/O	Super I/O controller supporting: <ul style="list-style-type: none">➤ Two PS/2 ports for mouse and keyboard➤ One serial port➤ One VGA port➤ One parallel port➤ Audio jacks for microphone, line-in and line-out
Storage	IXP 150 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 6 channel Audio Codec
Industry standards	This motherboard is compliant with the following industry standards: <ul style="list-style-type: none">➤ 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)

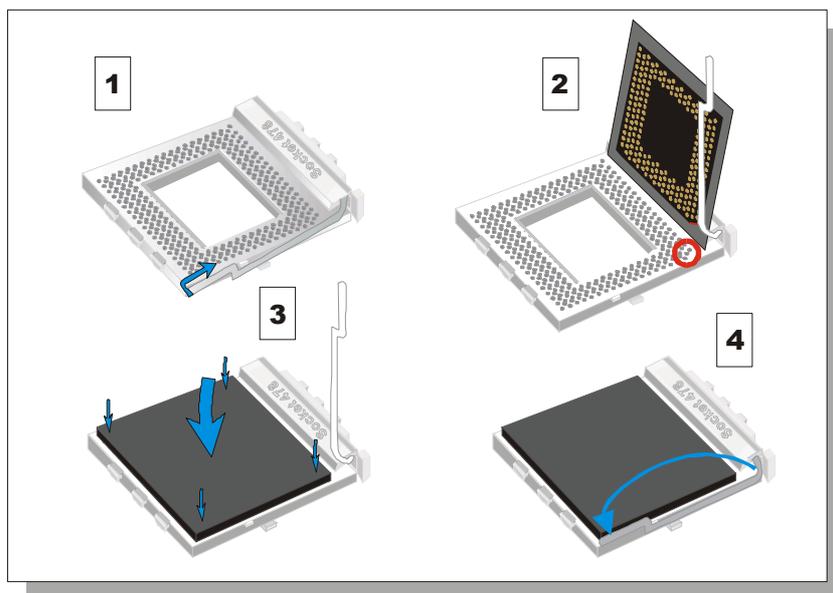
Step 2- Install memory modules

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.



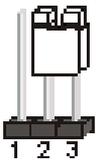
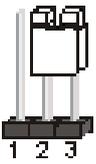
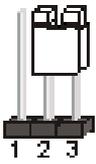
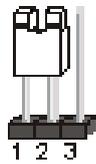
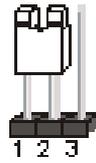
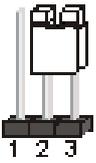
1. Lift the socket handle up to a vertical position.
2. Align the blunt edge of the CPU with the matching pinhole edge on the socket.
3. Seat the processor in the socket completely and without forcing.
4. Then close the socket handle to secure the CPU in place.



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.*

Front Side Bus Frequency Selection (JU200/JU201)

These jumpers can be programmed to 400Mhz, 533Mhz or 800MHz depending on your current CPU FSB.

	JU200 Setting	JU201 Setting
FSB100 (400MHz)	Short pin 2-3 	Short pin 2-3 
FSB133 (533MHz)	Short pin 2-3 	Short pin 1-2 
FSB200 (800MHz)	Short pin 1-2 	Short pin 2-3 

Step 2. Configure Memory

This motherboard supports Dual Channels to your memory. In order for Dual Channel to work, 2 modules of equal size and specifications have to be installed. ECC and registered memory are not supported.

The largest memory capacity possible is 2GB. On this motherboard, DRAM speed can be set independent from the CPU front side bus speed.

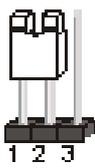
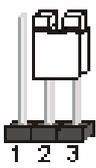
Memory Configuration Table

JU300 Setting	Pin1-Pin2	Pin3-Pin4	Pin5-Pin6
400MHz FSB CPU with PC2100	CLOSE	CLOSE	OPEN
533MHz FSB CPU with PC2100	OPEN	CLOSE	CLOSE
533MHz FSB CPU with PC2700	CLOSE	OPEN	OPEN
800MHz FSB CPU with PC3200	CLOSE	OPEN	CLOSE

Note: PC3200 is only supported if you have a 800MHZ FSB CPU. PC2100 and PC2700 are not supported.

DRAM voltage Jumper (JU2400)

This Jumper sets the voltage of your memory module.

	2.5V	2.65V (Default)
JU2400 Setting	Short pin 1-2 	Short pin 2-3 

Step 2. Installation of Expansion Cards

The motherboard has 1 AGP slot and 5 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 3. Connections to the Motherboard

Refer to the following for information on connecting the SY-P4RS300 mainboard's devices:

Connectors and Plug-ins

Front Audio (JU2101)										
Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8	Pin9	Pin10	
FMIC	GND	VREF	5V	LINE OUT_R	LINE OUT_R	NC	N/C	LINE OUT_L	LINE OUT_L	
USB2/3										
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	
Serial Port 2 : COM2										
Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8	Pin9	Pin10	
CD	DSR	RxD	RTS	TxD	CTS	DTR	RI	GND	NC	
SPDIF OUT					WOL/WOR					
Pin1	Pin2	Pin3	Pin4	Pin1	Pin2	Pin3				
SPDIF OUT	5V	NC	GND	3V3SB	GND	RING				
SPDIF OUT					CPUFAN					
Pin1	Pin2	Pin3	Pin4	Pin1	Pin2	Pin3				
SPDIF OUT	5V	NC	GND	GND	12V	SENSOR				
CD -IN: CDIN / AUXIN						Pin1	Pin2	Pin3	Pin4	
Connect the CD Line-in cord from the CD-ROM device to the matching connector CDIN						CDIN	L	G	G	R
						AUXIN	L	G	G	R

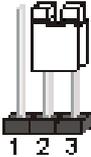
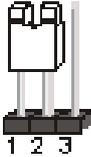
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				Speaker				
				Pin1	Pin3	Pin5	Pin7	
				VCC	NC	NC	Speaker out	
				Power LED				
Pin2		Pin4		Pin6				
3V3SB		GND		GND				
HDD LED		PWRBT		RESET				
Pin11	Pin12	Pin17	Pin18	Pin13	Pin14			
LED Anode	LED Cathode	Power On/Off	GND	GND	Control PIN			
Power On/Off: PWRBT								
<p>Connect your power switch to this header (momentary switch type).</p> <p>To turn off the system, press this switch and hold down for longer than 4 seconds.</p>								
ATX 12V Power Supply: ATX PW								
<p>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.)</p> <p><i>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).</i></p>								

CMOS Clear (JU600)

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

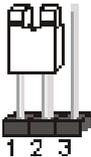
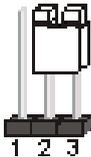
1. Clear the CMOS memory by momentarily shorting pin 2-3 on jumper JU600. Its white cap can easily identify this jumper.
2. Put the jumper back to 1-2 to allow writing of new data into the CMOS memory.

CMOS Clearing	Clear CMOS Data	Retain CMOS Data
JU600 Setting	<p>Short pin 2-3 for at least 5 seconds to clear the CMOS</p> 	<p>Short pin 1-2 to retain new settings</p> 
<p><i>Note: You must unplug the ATX power cable from the ATX power connector when performing the CMOS Clear operation.</i></p>		

Installation

Clear Password Jumper (JU601)

Jumper JU601 can be configured to force Password clear.

	Normal	Clear Password
JU601 Setting	<p>Short pin 1-2</p> 	<p>Short pin 2-3</p> 

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 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



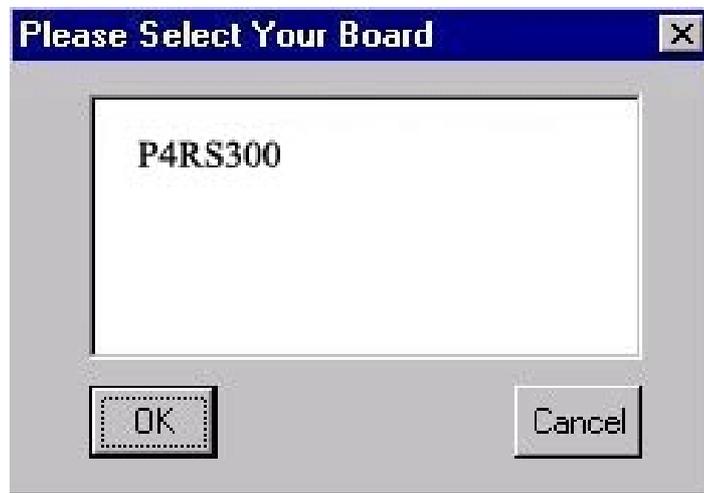
The SOYO-CD will Auto Run only in Windows Based Operating Systems.

Your SY-P4RS300 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:



(SOYO CD Start Up Program Menu)

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Under Windows 95/98/ME, the SOYO CD Start Up Program automatically detects the SOYO motherboard the system uses and displays the corresponding model name.

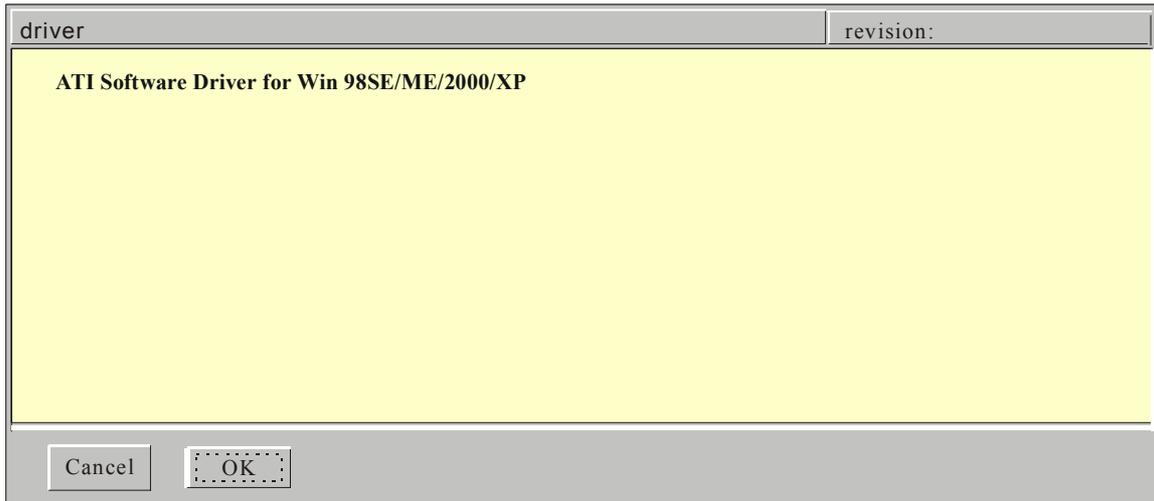


The user's manual files included on the SOYO CD are in PDF (Postscript Document format). In order to read a PDF file, the appropriate Acrobat Reader software must be installed in your system.

Note: The Start Up program automatically detects if the Acrobat Reader utility is already present 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:

➤ **ATI Software Driver for Win 98SE/ME/2000/XP**

Installs all the necessary drivers (like IAGP, IDE, SMBus, GART and Audio driver) for the system to operate properly.

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.

5 USB2.0 Driver Installation

Installing the USB2.0 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 the “  Universal Serial Bus (USB) Controller ”.
- 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.

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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. Check website for latest BIOS update.
5. Check website for FAQ's regarding instability issues.
6. Change the memory module or CPU.
7. 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.

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 awdfash utility to the diskette.
4. Type "awdfash 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.

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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 ATI utility driver set.
2. Install/ re-install the VGA driver.

Audio Issue

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 4-wire 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.

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 more FAQ update please check <http://www.soyousa.com/kb>

SY-P4RS300 Quick Start Guide

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.*

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