



# **SY-7VCA-E Motherboard**

## **Quick Start Guide**

**SOYO WOH  
Function**

The SOYO CE

Quick BIOS  
Setup

Hardware  
Installation

Introduction

## **SY-7VCA-E Motherboard**

Socket 370 for Via Cyrix, Intel PIII & Celeron processors  
VIA VT82C694X AGP/PCI Motherboard  
66/100/133 MHz Front Side Bus supported  
ATX Form Factor

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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>".

**7VCA-E Serial - Version 1.1 - Edition: May 2001**

\* These specifications are subject to amend without notice

# 1 Introduction

Congratulations on your purchase of the **SY-7VCA-E** Motherboard. This *Quick Start Guide* illustrates the steps for installing and setting up your new Motherboard.

This guide provides all users with the basic steps of Motherboard setting and operation. For further information, please refer to the *SY-7VCA-E Motherboard Users' Guide* that came with your Motherboard.

## Unpacking

When unpacking the Motherboard, check for the following items:

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◆ The SY-7VCA-E VT82C694X AGP/PCI Motherboard




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◆ This Quick Start Guide




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◆ The Installation CD-ROM



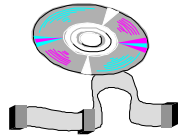

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◆ SOYO Bonus Pack CD-ROM




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◆ One IDE Device ATA 66 Flat Cable

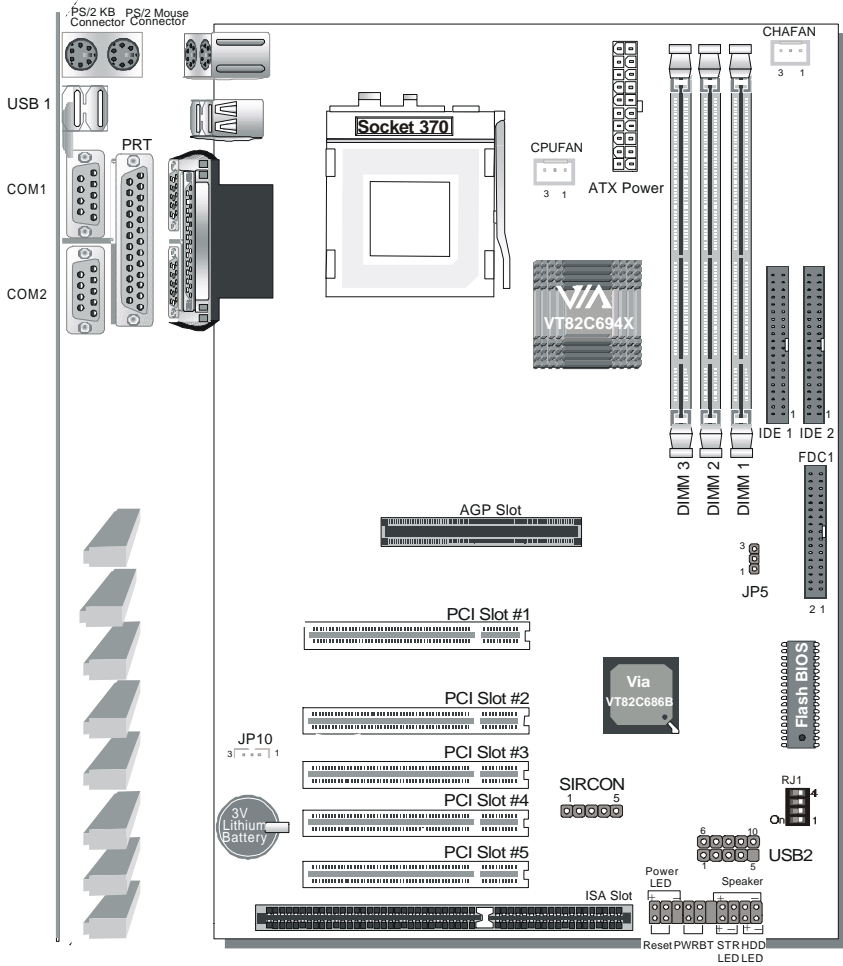



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◆ One Floppy Disk Drive Flat Cable



## SY-7VCA-E Motherboard Layout



## Key Features

- Supports Intel® processors
  - FSB 66MHz: Celeron™ (400-700MHz)
  - FSB 100MHz: Pentium® III (500-850MHz)
  - FSB 133MHz: Pentium® III (533MHz-1.13GHz)
- Supports Via Cyrix processors
  - FSB 100MHz: Cyrix III (500MHz-600MHz)
  - FSB 133MHz: Cyrix III (533MHz-600MHz)
- Supports 66/100/133 MHz Front Side Bus Frequency
- Auto-detect CPU voltage & (FSB)
- Easy CPU settings in BIOS with the "SOYO COMBO Setup"
- PC99, ACPI
- Ultra DMA33/66/100 (ATA 33/66/100)
- Supports Wake-On-LAN (WOL)
- Power-on by modem and RTC alarm
- Supports onboard hardware monitoring
- Supports suspend to RAM (STR)
- Supports multiple-boot function
- Supports SOYO Wizard On Hand (WOH) function
- 5 x 32-bit bus master PCI slots
- 1 x 16-bit ISA slot.
- 1 x 64-bit AGP slot
- 4 x USB ports onboard (USB1: 2 Ports, USB2: 2 Ports)
- ATX power connector
- RTC hardware to handle Y2K Century Rollover

## 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 **SY-7VCA-E** Motherboard. For detailed information, please refer to the *SY-7VCA-E Motherboard User's guide and Technical Reference* online manual on in the CD-ROM package that came with your Motherboard.

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

- ◆ Socket370 processor with built-in CPU cooling fan (boxed type)
- ◆ SDRAM module(s)
- ◆ Computer case 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: Sound card, Modem and LAN cards (optional)

## Install the Motherboard

To perform the installation of your new **SY-7VCA-E** Motherboard, follow the steps below:

### Step 1. CPU Installation

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

#### FSB 66MHz

|  |  |  |  |   |
|--|--|--|--|---|
| <input type="checkbox"/> 400MHz (66 x 6.0) | <input type="checkbox"/> 466MHz (66 x 7.0) | <input type="checkbox"/> 533MHz (66 x 8.0) | <input type="checkbox"/> 600MHz (66 x 9.0) | <input type="checkbox"/> 667MHz (66 x 10.0) |
| <input type="checkbox"/> 433MHz (66 x 6.5) | <input type="checkbox"/> 500MHz (66 x 7.5) | <input type="checkbox"/> 566MHz (66 x 8.5) | <input type="checkbox"/> 633MHz (66 x 9.5) | <input type="checkbox"/> 700MHz (66 x 10.5) |

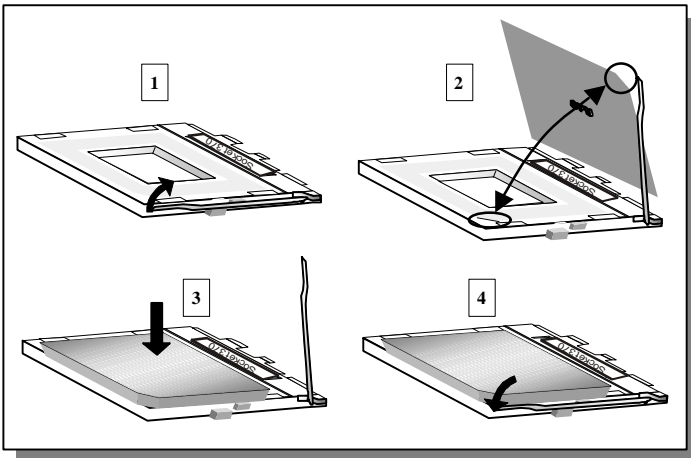
#### FSB 100MHz

|   |   |   |   |
|---|---|---|---|
| <input type="checkbox"/> 500MHz (100 x 5.0) | <input type="checkbox"/> 600MHz (100 x 6.0) | <input type="checkbox"/> 700MHz (100 x 7.0) | <input type="checkbox"/> 800MHz (100 x 8.0) |
| <input type="checkbox"/> 550MHz (100 x 5.5) | <input type="checkbox"/> 650MHz (100 x 6.5) | <input type="checkbox"/> 750MHz (100 x 7.5) | <input type="checkbox"/> 850MHz (100 x 8.5) |

#### FSB 133MHz

|   |   |   |  |  |
|---|---|---|--|--|
| <input type="checkbox"/> 533MHz (133x4.0) | <input type="checkbox"/> 667MHz (133x5.0) | <input type="checkbox"/> 800MHz (133x6.0) | <input type="checkbox"/> 933MHz (133x7.0)  | <input type="checkbox"/> 1.13GHz (133x8.5) |
| <input type="checkbox"/> 600MHz (133x4.5) | <input type="checkbox"/> 733MHz (133x5.5) | <input type="checkbox"/> 866MHz (133x6.5) | <input type="checkbox"/> 1000MHz (133x7.5) |  |

**CPU Mount Procedure:** To mount the Pentium® & Celeron™ processor & VIA Cyrix 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.*

## SY-7VCA-E Quick Start Guide

### Step 2. Connections to the Motherboard

This section tells how to connect internal peripherals and the power supply to the Motherboard.

The internal peripherals consist of IDE devices (HDD, CD-ROM), Floppy Disk Drive, Chassis Fan, Front Panel Devices (STR LED, Internal Speaker, Reset Button and IDE LED Switch.), Wake-On-LAN card, VGA card, Sound Card, and other devices.

For more details on connecting internal and external peripherals to your new SY-7VCA-E Motherboard, please refer to *SY-7VCA-E Motherboard User's Guide and Technical Reference* online manual on the CD-ROM.

### Connectors and Plug-ins

| Wake-On-LAN Header: JP10   |             |           |             |              | Standard IrDA (Infrared Device Header): SIRCON  |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
|--|-------------|-----------|-------------|--------------|---|------------|--------|------|-------|-----------|--|--|------|------|------|----|----|-----|---------|--|--|------|------|------|------|----|----|----|-------------|
| Pin1   | Pin2        | Pin3      | Pin4        | Pin5         | Pin1  | Pin2       | Pin3   | Pin4 | Pin5  |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| 5V-SB  | GND         | MP_Wakeup |             |              | VCC   | NC         | IRRX   | GND  | IRTX  |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| USB2 : (PORT1)   |             |           |             |              | USB2 : (PORT2)  |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| Pin1   | Pin2        | Pin3      | Pin4        | Pin5         | Pin6  | Pin7       | Pin8   | Pin9 | Pin10 |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| VCC  | Data-       | Data+     | GND         | NC           | VCC   | Data-      | Data+  | GND  | GND   |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| CPU Cooling Fan: CPUFAN  |             |           |             |              | Chassis Fan: CHAFAN   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| Pin1   | Pin2        | Pin3      | Pin4        | Pin5         | Pin1  | Pin2       | Pin3   | Pin4 | Pin5  |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| GND  | 12V         | SENSOR    |             |              | GND   | 12V        | SENSOR |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
|  |             |           |             |              | <table border="1"> <thead> <tr> <th colspan="3">Power LED</th> </tr> <tr> <td>Pin1</td> <td>Pin2</td> <td>Pin3</td> </tr> <tr> <td>5V</td> <td>NC</td> <td>GND</td> </tr> </thead> <tbody> <tr> <th colspan="3">Speaker</th> </tr> <tr> <td>Pin1</td> <td>Pin2</td> <td>Pin3</td> <td>Pin4</td> </tr> <tr> <td>5V</td> <td>NC</td> <td>NC</td> <td>Speaker out</td> </tr> </tbody> </table> |            |        |      |       | Power LED |  |  | Pin1 | Pin2 | Pin3 | 5V | NC | GND | Speaker |  |  | Pin1 | Pin2 | Pin3 | Pin4 | 5V | NC | NC | Speaker out |
| Power LED  |             |           |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| Pin1   | Pin2        | Pin3      |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| 5V   | NC          | GND       |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| Speaker  |             |           |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| Pin1   | Pin2        | Pin3      | Pin4        |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| 5V   | NC          | NC        | Speaker out |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| HDD LED  |             | STR LED   |             | PWRBT        |   | RESET      |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| Pin1   | Pin2        | Pin1      | Pin2        | Pin1         | Pin2  | Pin1       | Pin2   |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| LED Anode  | LED Cathode | LED Anode | LED Cathode | Power On/Off | GND   | Power Good | GND    |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| ATX Power On/Off: PWRBT  |             |           |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| Connect your power switch to this header (momentary switch type).  |             |           |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| <b>To turn off the system, press this switch and hold down for longer than 4 seconds.</b>  |             |           |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| ATX Power Supply: ATX PW   |             |           |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| Attach the ATX Power cable to this connector. (This motherboard requires an ATX power supply, an AT power supply can NOT be used.)   |             |           |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |
| When using the Power-On by PS/2 Keyboard function, please make sure the ATX power supply is able to provide at least 720mA on the 5V Standby lead (5VSB) in order to meet the standard ATX specifications. |             |           |             |              |   |            |        |      |       |           |  |  |      |      |      |    |    |     |         |  |  |      |      |      |      |    |    |    |             |



**Note:** The STR LED is connected to the Voltage that feeds the DIMM sockets. Therefore the following table applies:

|         | Suspend to RAM | Normal Operation | Power Off |
|---------|----------------|------------------|-----------|
| STR LED | BLINKING       | ON               | OFF       |

**Step 3. Configure Memory**

Your board comes with three DIMM sockets, providing support for up to 1.5GB of main memory using unbuffered and registered DIMM modules from 8MB to 512MB. On this motherboard, DRAM speed can be set independent from the CPU front side bus speed. Depending on the DRAM clock speed setting in the BIOS setup, appropriate memory modules must be used. For 66MHz DRAM speed, use PC66 memory; for 100MHz DRAM speed, use PC100 memory; for 133MHz DRAM speed, use PC133 memory.

**Memory Configuration Table**

| Number of Memory Modules  | DIMM 1                    | DIMM 2 | DIMM 3 |
|---|---------------------------|--------|--------|
| RAM Type  | SDRAM / VCM SDRAM         |        |        |
| Memory Module Size (MB)   | 8/16/32/64/128/256/512 MB |        |        |
| <b>Note: Always install memory modules in the order prescribed in this table.</b> |                           |        |        |

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### Step 4. Ratio Adjustment setting (RJ1)

Refer to the following table to set the Frequency Multiplier of your CPU. Configure the RJ1 jumper to the settings that match your CPU speed.



| RJ1 | 1   | 2   | 3   | 4   |
|-----|-----|-----|-----|-----|
| 1.5 | Off | On  | Off | Off |
| 2.0 | On  | On  | On  | On  |
| 3   | On  | Off | On  | On  |
| 3.5 | On  | Off | Off | On  |
| 4   | Off | On  | On  | On  |
| 4.5 | Off | On  | Off | On  |
| 5   | Off | Off | On  | On  |
| 5.5 | Off | Off | Off | On  |
| 6   | On  | On  | On  | Off |
| 6.5 | On  | On  | Off | Off |
| 7   | On  | Off | On  | Off |
| 7.5 | On  | Off | Off | Off |
| 8   | Off | On  | On  | Off |

**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.**

### CMOS Clear (JP5)

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

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

| CMOS Clearing  | Clear CMOS Data   | Retain CMOS Data  |
|--|---|---|
| JP5 Setting  | <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> |   |   |

### 3 Quick BIOS Setup

This Motherboard does not require any hardware jumpers to set the CPU operating frequency. Instead, CPU settings are software configurable through the BIOS [Soyo Combo Feature]. The [Soyo Combo Feature] menu combines the main parameters that you need to configure your system. They are all in one menu to enable a quick setup in BIOS.

After completion of hardware installation, turn the power switch on, then press the <DEL> key while the system diagnostic is checking to enter the Award BIOS Setup program. The CMOS SETUP UTILITY will be displayed on screen. Then follow these steps to configure the CPU settings.

#### Step 1. Select [Standard CMOS Features]

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 [Soyo Combo Feature]

Move the cursor to the **[CPU Frequency]** field to set the CPU frequency.

The following table shows all available [CPU Frequency] settings on your SY-7VCA-E Motherboard. If you set this field to [Manual], then you will be required to fill in the next two consecutive fields: (1) the CPU Host/PCI Clock, and (2) the CPU Ratio.

| CPU Frequency (MHz)      |                   | <input type="checkbox"/> | 667MHz (66 x 10.0) | <input type="checkbox"/> | 600MHz (133 x 4.5)  |
|--------------------------|-------------------|--------------------------|--------------------|--------------------------|---------------------|
| <input type="checkbox"/> | Manual            | <input type="checkbox"/> | 700MHz (66 x 10.5) | <input type="checkbox"/> | 666MHz (133 x 5.0)  |
| <input type="checkbox"/> | 400MHz (66 x 6.0) | <input type="checkbox"/> | 500MHz (100 x 5.0) | <input type="checkbox"/> | 733MHz (133 x 5.5)  |
| <input type="checkbox"/> | 433MHz (66 x 6.5) | <input type="checkbox"/> | 550MHz (100 x 5.5) | <input type="checkbox"/> | 800MHz (133 x 6.0)  |
| <input type="checkbox"/> | 466MHz (66 x 7.0) | <input type="checkbox"/> | 600MHz (100 x 6.0) | <input type="checkbox"/> | 866MHz (133 x 6.5)  |
| <input type="checkbox"/> | 500MHz (66 x 7.5) | <input type="checkbox"/> | 650MHz (100 x 6.5) | <input type="checkbox"/> | 933MHz (133 x 7.0)  |
| <input type="checkbox"/> | 533MHz (66 x 8.0) | <input type="checkbox"/> | 700MHz (100 x 7.0) | <input type="checkbox"/> | 1000MHz (133 x 7.5) |
| <input type="checkbox"/> | 566MHz (66 x 8.5) | <input type="checkbox"/> | 750MHz (100 x 7.5) | <input type="checkbox"/> | 1.13GHz (133 x 8.5) |
| <input type="checkbox"/> | 600MHz (66 x 9.0) | <input type="checkbox"/> | 800MHz (100 x 8.0) | <input type="checkbox"/> |                     |
| <input type="checkbox"/> | 633MHz (66 x 9.5) | <input type="checkbox"/> | 850MHz (100 x 8.5) |                          |                     |

Select the working frequency of your Via Cyrix, Intel Pentium® III, Celeron™ processor among these preset values.

**Note:**  Mark the checkbox that corresponds to the working frequency of your Pentium® III, Celeron™ processor in case the CMOS configuration should be lost.

#### Step 4. Select [SAVE & EXIT SETUP]

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

## 4 The SOYO CD



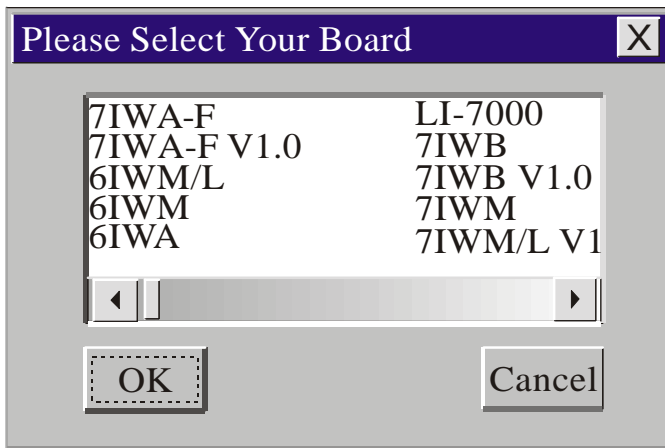
The SOYO-CD will NOT autorun if you use it on an Operating System other than Windows 9x or NT.

Your SY-7VCA 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 as shown.

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



(SOYO CD Start Up Program Menu)

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

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

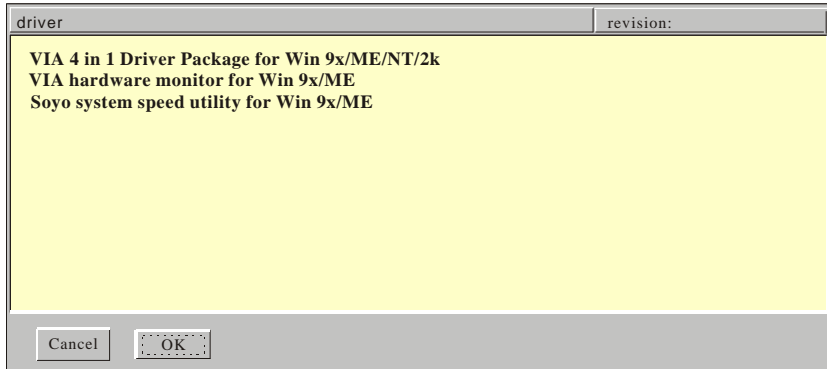


**Note:** The Start Up program automatically detects if the Acrobat Reader utility is already present in your system, and otherwise prompts you on whether or not you want to install it. You must install the Acrobat Reader utility to be able to read the user's manual file. Follow the instructions on your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

### **Step 2.** Install Drivers and Utilities

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

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(Driver Installation Menu)

### A short description of all available drivers follows:

#### ➤ **VIA 4in1 Driver Package Win 9x/ME/NT/2k**

The 4 in 1 Driver Package includes all drivers your motherboard needs. After selecting this Driver Package, one driver will be installed automatically (the IRQ remapping utility), the other three are installed if selected. By default all three drivers are selected. A description of the 4 drivers follows:

##### — **Bus Master PCI IDE Driver**

This driver will speed up the data-transfer rate to and from the harddisk.

##### — **AGP VxD Driver**

This driver must be installed in order to be able to make use of the on-board AGP Video functionality.

##### — **VIA Chipset Functions Registry**

This driver will make the necessary changes to the Windows registry, in order to make sure that Windows has no problems recognizing your VIA chipset.

##### — **IRQ remapping utility (This driver is installed automatically)**

This utility will remap the IRQ lines to make sure that everything functions properly under Windows.

#### ➤ **VIA hardware monitor for Win 9x/ME**

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.

#### ➤ **Soyo system speed utility for Win 9x/ME**

Select this Item and click OK to start up the Soyo system speed utility screen. Follow the instructions on the screen to install the utility and/or application programs you

need. (refer detail instructions on page 16)

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.

### **Step 3.** Check the Latest Releases

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

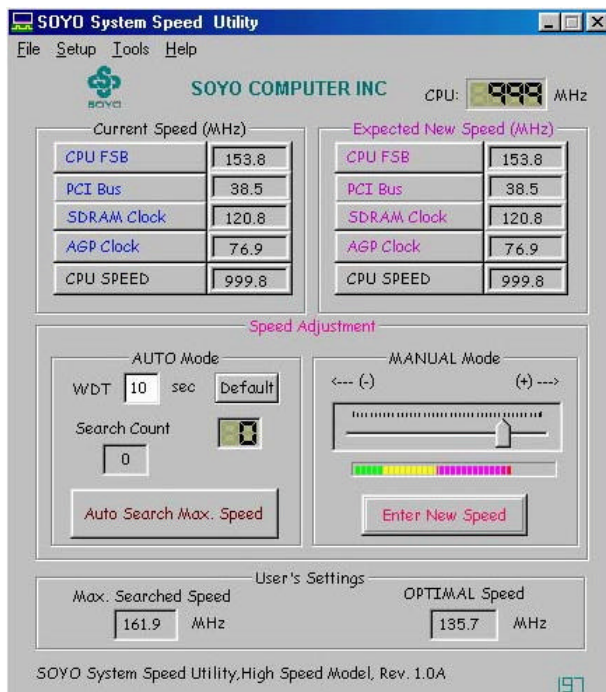
*(\* Internet Explorer is a Microsoft Trademark)*

## 5 Wizard on Hand Utility

With SOYO's Wizard on hand utility, now user can overclock the CPU without entering the CMOS setup. The System Speed Utility also provide a user friendly interface for first time overclockers.

**Warning:** SOYO will not be responsible for any damage done to the CPU due to overclocking.

*The system might become unstable overclocked, if this happens, please shutdown the system.*



### Current Speed (MHz)

Display the current speed settings of your system.

### Expected New Speed (MHz)

Display the proposed changes in your system



**Watch Dog Timer (WDT)**

Time set to reboot when the system hang-up due to overclocking. The default is 15 secs.

**Auto Search Max. Speed**

The utility will help you determine the maximum allowable speed of the system, it will increment 1MHz at a time until your system reaches the maximum allowable speed, then the system will freeze and reboot. Then the speed value will be stored as the “max. searched speed”

**Manual Mode**

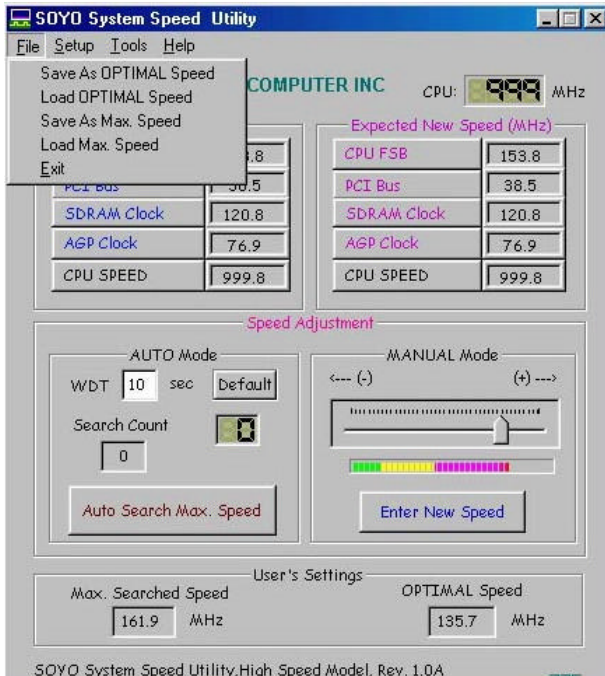
Adjust the FSB speed manually by moving the bar and then click the “enter new speed”. It is recommended to increment the FSB little by little.

**Max. Searched Speed**

The maximum allowable FSB speed for the system. The current speed value can be save as the max. searched speed by loading the “save as max. speed” under the “file” menu.

**Optimal Speed**

This settings is set by the user depending on the value the user see fit as the fail safe overclocked speed. To make the current speed as optimal speed, go to “file” and click “save as optimal speed”



SOYO WOH  
Function

## SY-7VCA-E Quick Start Guide

### Save as OPTIMAL Speed

Save the current speed as Optimal speed

### Load OPTIMAL Speed

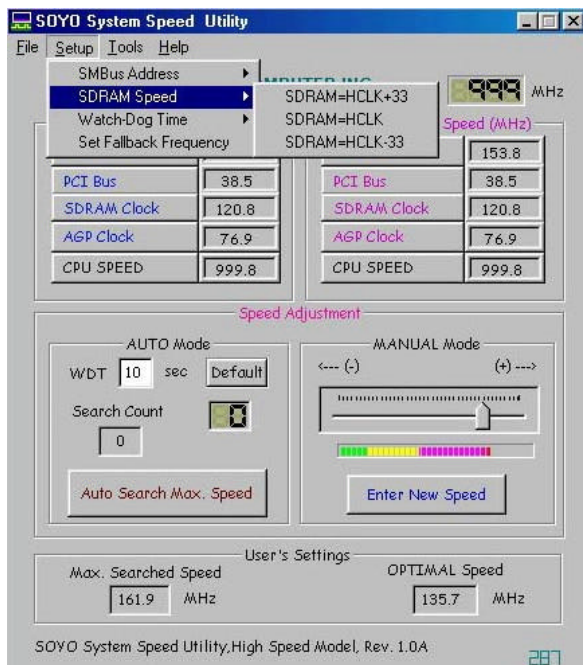
Load the optimal speed value to the system

### Save as Max. Speed

Save the current speed as max. searched speed

### Load Max. speed

Load the max searched speed to the system



### SDRAM speed

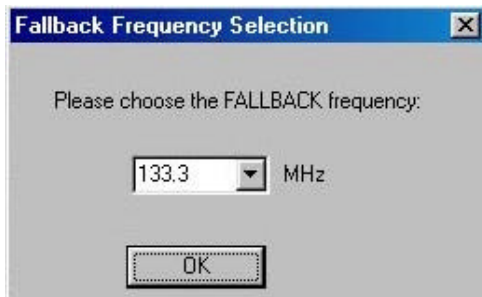
This settings should be the same settings on the CMOS setup.

### Watch Dog Timer

The default time is 15 secs. and the maximum time is 30 secs.

### Set Fallback Frequency

The Fallback Frequency is the system FSB setting, once the system hangs and reboot due to overclocking. The default fallback frequency will depend on the current FSB of the CPU. If the system is using a Celeron CPU, the default fallback frequency will be 66MHz. The user can also manually change the fallback frequency.



### **Quick Trouble shoot tips**

#### **Video (no display) related issues**

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

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

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

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

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

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

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

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

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

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

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

## **BIOS Issues**

### **Where can I find the BIOS revision of my mainboard?**

It will be displayed on the up-left corner on the screen during boot-up. It will show as your board type followed by the revision number, such as 5EH\_2CA1 (meaning revision 2CA1 for the SY-5EH board) or 6BA+ IV\_2AA2 which means SY-6BA+ IV motherboard with 2AA2 bios.

### **Where can I find the latest BIOS of my motherboard?**

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

## **Hard disk, floppy drive, CD-ROM etc**

### **When I boot up my new computer I got "floppy boot failure" and the LED on the floppy stays on**

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

## **Modem issues**

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

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

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

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

### **Audio Issues**

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

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

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

It is likely that you did not have the correct driver installed. If you are sure that the correct sound driver has been installed, then please install the 'via 4 in 1' driver for the motherboard.

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

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

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

First, if you are using an ISA sound card, please make sure the IRQ needed for the sound card is set to 'Legacy ISA' in the bios. In other words, if your ISA sound card takes IRQ5, then set IRQ5 to 'Legacy ISA'. Next, install the 'via 4 in 1' driver for the motherboard.

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

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

### **Lock up (freeze)**

#### **When I boot up my system, everything works fine. It sees my CPU and memory, detects my hard drive, floppy drive and CD-ROM but locks up at "Verify DMI pool data... ", and it won't go any further. What should I do?**

Please clear the CMOS via JP5 then choose 'load optimized default' in the bios and save the bios and exit. Next, unplug all other add-on cards except the video card and floppy drive controller, and see if it can boot from floppy. Then put back the peripherals one by one to identify which one causes the lockup. If you are running a Cyrix CPU, make sure the 'linear burst function' is enabled in the bios.

#### **I can not get my board to run properly.**

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

### How to contact us:

- If you are interested in our products, please contact the SOYO sales department in the region you live.
- If you require Technical Assistance, please contact our Technical Support in the region you live.

SOYO prefers Email as communication medium, remember to *always add to the email the country that you live in.*

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