

Quick Start Guide for SY-6BA Pentium® II Motherboard

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Congratulations on your purchase of the SOYO™ SY-6BA Pentium® II supported Motherboard. This *Quick Start Guide* describes the steps for installing and setting up your new motherboard.

This guide is designed for those users who have prior knowledge of motherboard operations and are already familiar with basic motherboard settings. For further information, please refer to *SY-6BA Motherboard User's Guide and Technical Reference* online manual included on the CD-ROM packed with your motherboard.

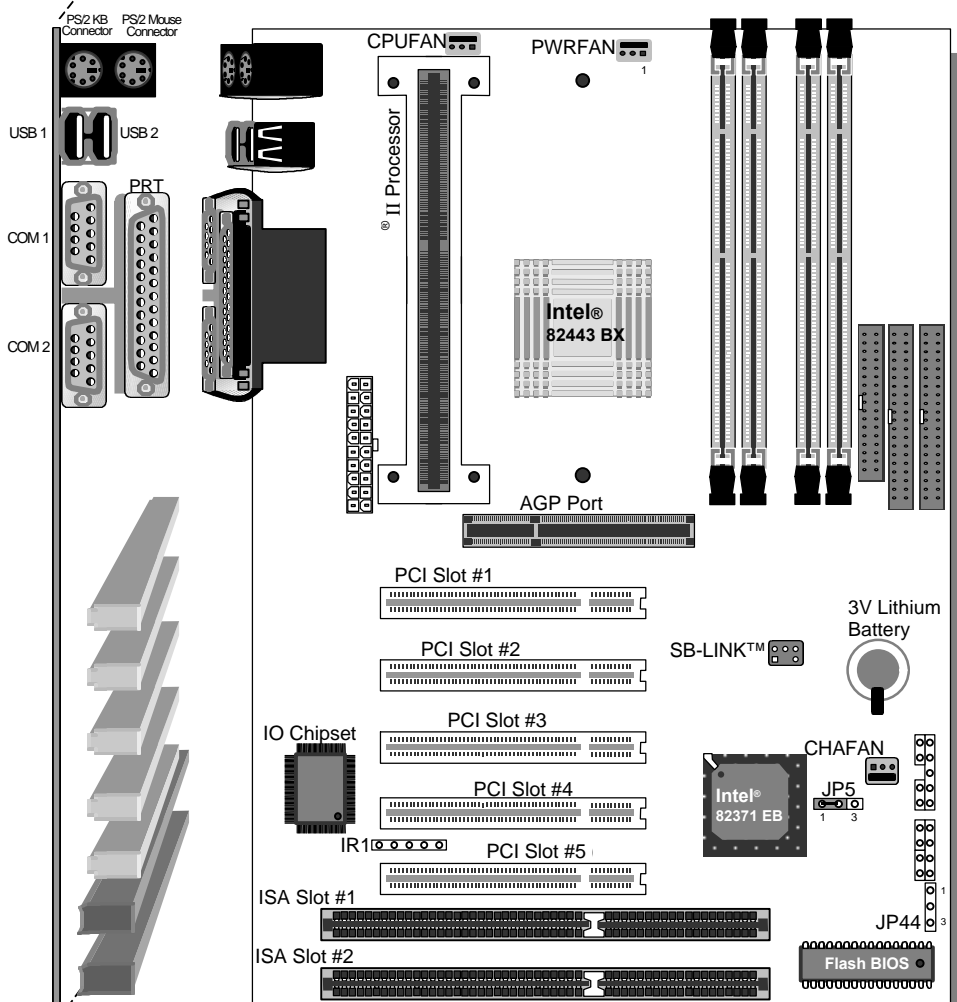
1 Unpack the Motherboard

When unpacking the motherboard, check for the following items:

- θ The SY-6BA 82440 BX AGP Set Motherboard
- θ This *Quick Start Guide*
- θ The Installation CD-ROM
- θ One IDE Device Flat Cable
- θ One Floppy Disk Drive Flat Cable
- θ The CPU Retention Set

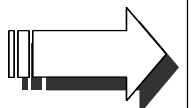
2 Motherboard Layout

Your new SY-6BA Motherboard is a high-performance Pentium® II processor supported system board that features state-of-the-art technology, as shown on the following layout. This layout helps you identify the motherboard elements that you will be dealing with during the installation.



Default Settings

- CPU: Pentium® II processor 233/350 MHz
- CPU Voltage: Auto Detect CPU Voltage
- 2 PCI E-IDE Ports
- 1 Parallel Port LPT1 EPP/ECP Printer Port
 - LPT1: I/O Address 378H, IRQ 7, Status ECP+EPP
- 2 Serial Ports COM1 & COM2:
 - COM1: I/O Address 3F8H, IRQ 4
 - COM2: I/O Address 2F8H, IRQ 3
- 2 Onboard USB Ports
- PS/2 Mouse
- ATX Power Supply



3 Jumper Settings and Connectors

CMOS Clear: JP5		PCI Audio Card Connector: SB-Link		CPU Cooling Fan: CPUFAN			
Retain CMOS data (default)	1-2	Some PCI audio cards needs a DMA channel. Connect the cable to SB-Link.		Chassis Fan: CHAFAN			
Clear CMOS data	2-3	Wake-On-LAN Jumper: JP44		Pin	1	2	3
		Connect the WOL cable from your LAN card to JP44.		Function	GND	12V	Sensor
USB	TB LED	SPK	RESET	IDE LED		KB-LOCK	
Connect your USB devices to this header	Connect your Turbo LED to this jumper	Connect the speaker cable to this jumper	Connect the reset button to this jumper	Connect the IDE device LED to this jumper		Connect the Power LED and the Keyboard Lock switch to	
IrDA (Infrared Device Connector): IR		ATX Power On/Off: PWRBT		ATX Power: ATX PW			
Connect your IrDA device to this connector		Connect your power switch to this jumper (momentary switch type)		Attach the ATX Power Supply to this connector			

4 Memory configuration

Your board comes with four DIMM sockets, providing support for up to 512MB of main memory using DIMM modules from 8MB to 128MB. For 66MHz host bus CPUs use 12ns or faster DIMM modules; for 100MHz host bus CPUs use 8ns modules.

Memory configuration Table

Number of Memory Modules	DIMM 1	DIMM 2	DIMM 3	DIMM 4
1				1 st
2			2 nd	1 st
3		3 rd	2 nd	1 st
4	4 th	3 rd	2 nd	1 st

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

5 Default I/O Settings

Default settings for multi-I/O addresses are as follows:

Port	I/O Address	IRQ	Status
LPT1	378H	7	ECP + EPP
COM1	3F8H	4	
COM2	2F8H	3	

Note: If a default I/O address conflicts with other I/O cards such as sound card, you must change one of the I/O addresses to remedy to this address conflict. (I/O addresses can be adjusted from the BIOS Setup Utility under [Integrated Peripherals].)

6 CPU Settings

Enter the BIOS Setup Utility [CHIPSET FEATURES SETUP] section and configure the CPU frequency settings to match the working frequency of your Pentium® II processor. Follow these steps to configure the CPU settings:

- Step 1.** In BIOS, select the correct Host Clock frequency of your CPU.
- Step 2.** Note the working frequency of your Pentium® II processor that should be clearly marked on the cover.
- Step 3.** Configure CPU Freq. field in BIOS by selecting the Multiplier that matches the Host Clock with your CPU working frequency, as shown in the following table:

CPU Host Clock (MHz)	X	Multiplier	=	CPU Frequency (MHz)
66	X	3.5	=	233
66	X	4.0	=	266
66	X	4.5	=	300
66	X	5	=	330
100	X	3.5	=	350
100	X	4	=	400
100	X	4.5	=	450
100	X	5	=	500

ROM PCI/ISA BIOS CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.	
Auto Configuration	: Enabled
SDRAM CAS latency Time	: 3
DRAM Data Integrity Mode	: Non-ECC
System BIOS Cacheable	: Disabled
Video BIOS Cacheable	: Disabled
Video RAM Cacheable	: Disabled
8 Bit I/O Recovery Time	: 1
16 Bit I/O Recovery Time	: 1
Memory Hole At 15M-16M	: Disabled
Passive Release	: Enabled
Delay Transaction	: Disabled
AGP Aperture Size (MB)	: 64
CPU Host Clock Select	: 66 MHz
CPU Freq. (MHz)	: CPU Host Clock * 3.5
CPU Warning Temperature	: Disabled
Current CPU Temperature	: 29°C/84°F
Current System Temp.	: 24°C/75°F
Current CPUFAN Speed	: 6553 RPM
Current PWRFAN Speed	: 6553 RPM
Current CHSFAN Speed	: 6553 RPM
VID(V) : 2.78 V	VTT(V) : 1.50V
3.3(V) : 3.31 V	+5 (V) : 4.97V
+12(V) : 11.84V	-12 (V) : -11.45V
-5(V) : -4.88V	
ESC : Quit	↑ ↓ → ← : Select Item
F1 : Help	PU/PD/+/- : Modify
F5 : Old Values	(Shift) F2 : Color
F6 : Load BIOS Defaults	
F7 : Load Setup Defaults	