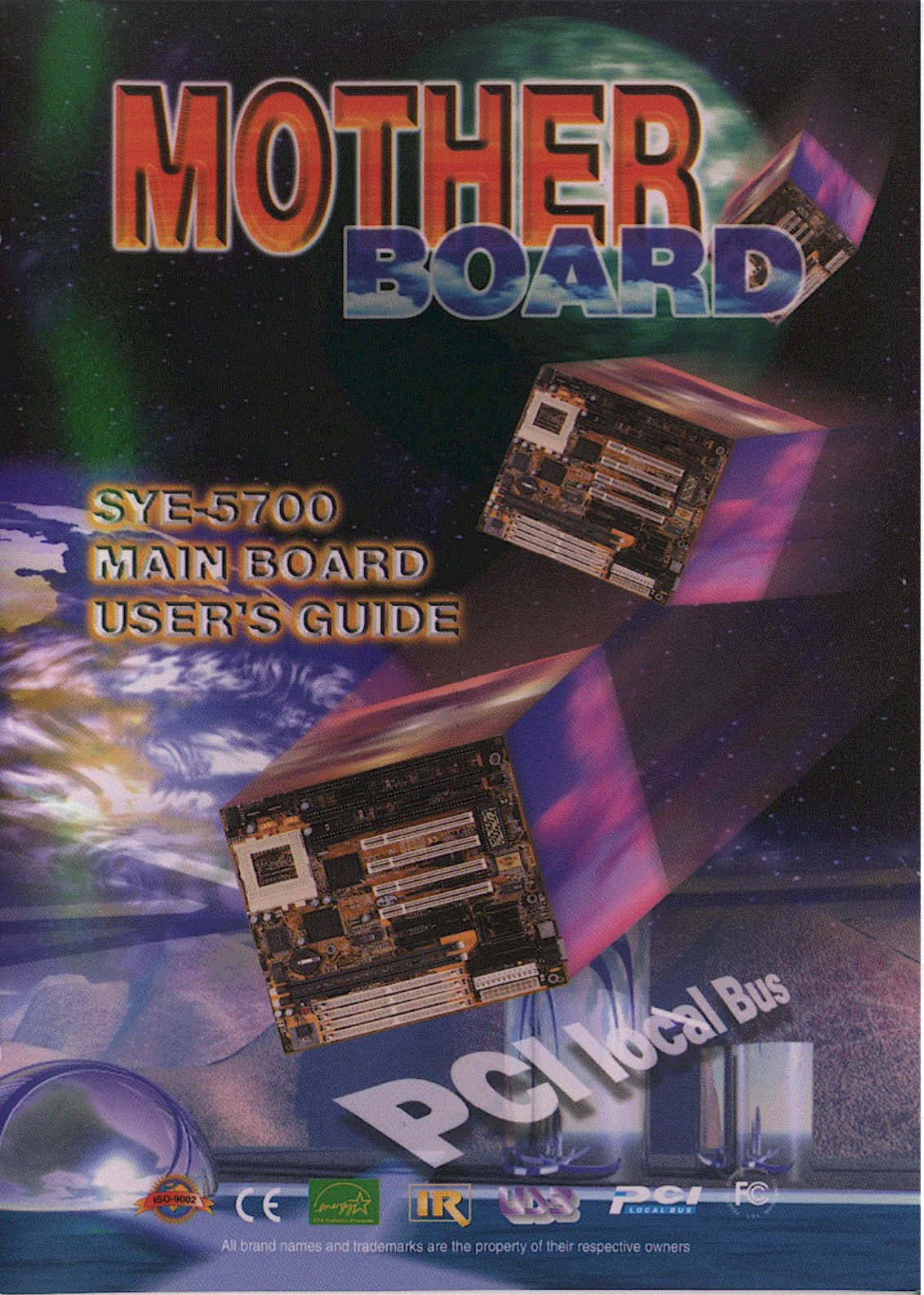


SYE-5700 MAIN BOARD

User's Guide

Rev. : 1.3
Date : Dec. 1997

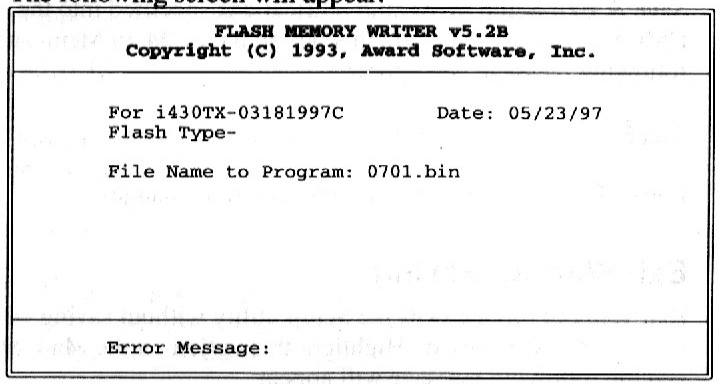
FLASH ROM Utility

This section shows you how to update your BIOS program.

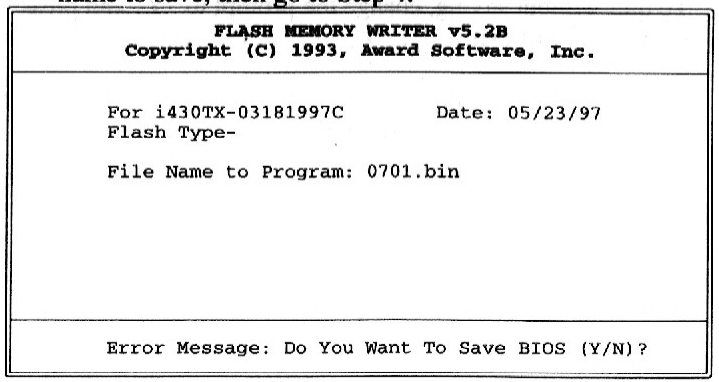
1. Make sure your operating environment is DOS (not windows DOS session) and remove every configured driver by renaming the config.sys and autoexec.bat, then reboot.

2. Use the command in c prompt, such as:
   `flash <path>0701.bin`
   or
   `flash`
   then type file name later.

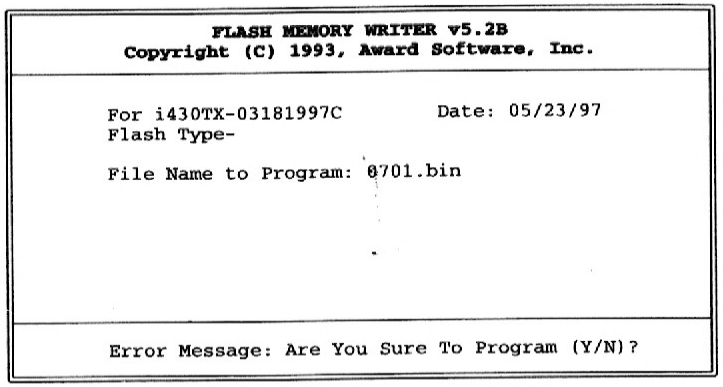
The following screen will appear:



3. Select Y or N when the utility asks to save the older version of BIOS or not. Go to Step 4 if select Y, otherwise enter the file name to save, then go to Step 4.



4. Make sure that you really need to update your system BIOS, then press Y to go on, otherwise stop it.



BIOS

- AWARD Plug and Play BIOS
- Supports Advanced Power Management Function
- Flash Memory for easy upgrade
- Built-in IOMEGA, LS-120 driver

I/O Function

- Integrated USB (Universal Serial Bus) controller with two USB ports.
- Supports 2 IDE channels with 4IDE devices (including 120MB IDE floppy)
- Provides PCI IDE Bus Master function (Ultra DMA 33MB/sec)
- One floppy port (including 3.5", 1.2MB function)
- Two high speed 16550 FIFO UART ports
- One parallel port with EPP/ECP/SPP capabilities
- PS/2 mouse connector and Infrared Connector

ACPI Features (for ATX Only)

- ACPI power management function support
- Supports Ring On and Alarm On functions

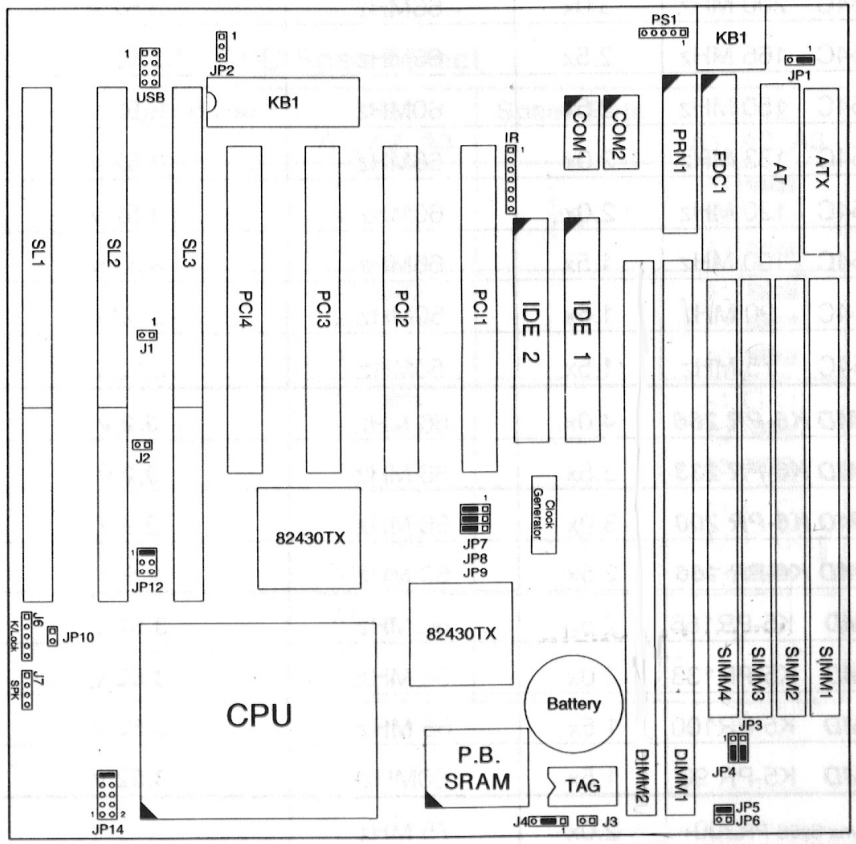
Other Functions

- 4 PCI slots and 3 ISA slots
- Supports SCSI/CD-ROM Boot function
- Supports CPU overheat and protects circuit (optional)
- Provides ATX power connection and thermal sensor (optional)

NOTE: 1. Make sure that JP1 is set to the right power connector before powering on the system (default is AT.)
2. Make sure that the SDRAM module not only has to be 168 pin DIMM but designed for 3.3V unbuffered SDRAM as well. Double check with the SDRAM supplier before install any SDRAMs. The mainboard manufacturer has no obligation to any damage of the board by using the incorrect specification of SDRAM.

Mainboard Layout

The following figure is the layout of SYE-5700 with the 512K cache.



Motherboard Layout

Jumper Setting for CPU

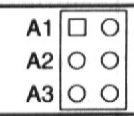
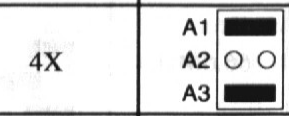
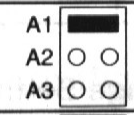
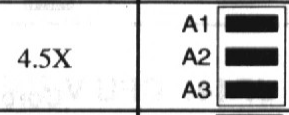
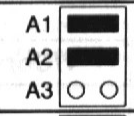
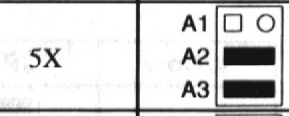
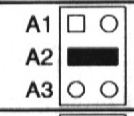
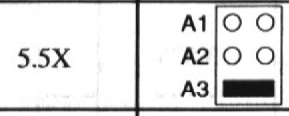
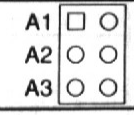
CPU Type	Speed Rate (JP12)	Bus clock (JP7,JP8,JP9)	CPU Vcore Voltage Setting (JP14)
Intel MMX 233MHz	3.5x	66MHz	***2.8 v***
Intel MMX 200 MHz	3.0x	66MHz	***2.8 v***
Intel MMX 166 MHz	2.5x	66MHz	***2.8 v***
P54C 200 MHz	3.0x	66MHz	3.52 v
P54C 166 MHz	2.5x	66MHz	3.52 v
P54C 150 MHz	2.5x	60MHz	3.52 v
P54C 133 MHz	2.0x	66MHz	3.52 v
P54C 120 MHz	2.0x	60MHz	3.52 v
P54C 100 MHz	1.5x	66MHz	3.52 v
P54C 90 MHz	1.5x	60MHz	3.52 v
P54C 75 MHz	1.5x	50MHz	3.52 v
AMD K6-PR 266	4.0x	66 MHz	***3.2 v***
AMD K6-PR 233	3.5x	66 MHz	***3.2 v***
AMD K6-PR 200	3.0x	66 MHz	2.9 v
AMD K6-PR 166	2.5x	66 MHz	2.9 v
AMD K5-PR166	2.5x	66 MHz	**3.52 v**
AMD K5-PR133	2.0x	66 MHz	**3.52 v**
AMD K5-PR100	1.5x	66 MHz	**3.52 v**
AMD K5-PR 90	1.5x	60MHz	**3.52 v**
Cyrix 6x86-PR200+	2.0x	75 MHz	
Cyrix 6x86-PR166+	2.0x	66 MHz	6x86L 2.8v
Cyrix 6x86-PR150+	2.0x	60 MHz	6x86MX(M2) 2.9v
Cyrix 6x86-PR133+	2.0x	55 MHz	6x86(M1) 3.52v
Cyrix 6x86-PR120+	2.0x	50 MHz	

2: HARDWARE SETUP

CPU Type Configuration

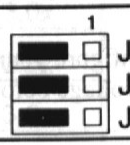
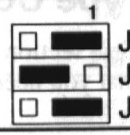
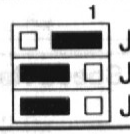
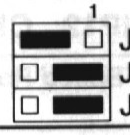
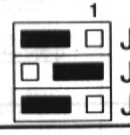
This section shows you how to configure your CPU, but be aware that you need to know your CPU voltage before configuration.

JP12: CPU Speed Slect

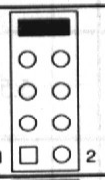
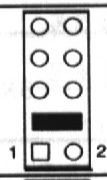
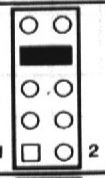
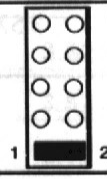
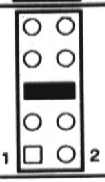
Speed Rate	JP12 A1, A2, A3	Speed Rate	JP12 A1, A2, A3
1.5X		4X	
2.0X		4.5X	
2.5X		5X	
3X		5.5X	
3.5X			

JP7, JP8, JP9: Bus Clock Select

Set the jumper according to your CPU clock.

Bus Clock	JP7, JP8, JP9	Bus Clock	JP7, JP8, JP9
50MHz		75MHz	
60MHz		83.3MHz	
66.6MHz			

JP14: CPU V_{Core} Voltage Setting

V/Core	JP14	V/Core	JP14
3.52V		2.9V	
3.45V		2.8V	
3.2V			

CPU Type	V/Core
Pentium (P54C), 6x86, K5	3.52V
	3.45V
K6-233 (or higher)	3.2V
K6-166/200, 6x86MX (M2)	2.9V
MMX (P55C), 6x86L	2.8V

NOTE: 1. Refer to the table above to choose the correct voltage for the CPU everytime that you install a CPU, and, make sure that your JP14 is matched with the CPU voltage, otherwise will damage the CPU or make the system unstable.

2. When the new CPU is announced and is not listed on this manual, please refer to the above table, select the correct voltage setting for it.

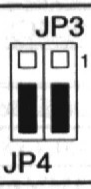
System Memory Configuration

This 82430TX motherboard supports 72-pin SIMMs and 168pin DIMM (3.3V unbuffered type) of 4MB, 8MB, 16MB, or 32MB to form a memory size between 4MB to 256MB (total of 6 rows are supported).

The 82430TX chipset supports "Table Free" configuration so that DRAM module can be installed at any capacity except **SIMM1, 2 and DIMM1 can't be installed at the same time.**

JP3, JP4: DIMM Voltage Select Jumper

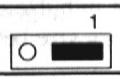
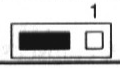
Most of DIMMs in the consumer market is still 3.3V and this jumper is reserved only for upgrading purpose in the near feature. If you have 5V SIMM or DIMM which matches the existing 3.3V DIMM socket on this mainboard, than you need to set this jumper to 5V before installing the DIMM.

DIMM Voltage	JP3, JP4
3.3V (default)	
5V	

Jumpers/Connectors Settings

This section describes some of the connectors on the mainboard.

JP1: AT/ATX Power Select

Power Type	JP1
AT Power (default)	
ATX Power	

JP2: Flash ROM Select

Flash ROM	JP2
12V	
5V	

JP5, JP6: VRE Voltage Select Setting

V/IO	JP5, JP6
3.52V	
3.54V (default)	

JP10: Reset Switch

The system board has a 2-pin connector for rebooting your computer without having to turn off your power switch. This prolongs the life of the system's power supply.

J1: Fan Power Connector

J2: ATX Power On Switch Connector

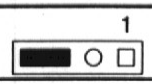
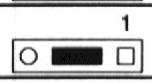
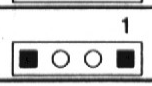
Attach a two-pin switch to this connector for turning the ATX power supply on/off.

J3: HDD LED Connector

Attach the cable of hard disk drive LEDs to this connector. The LED lights when an HDD is active.

J4: Clear CMOS Data

Clear the CMOS memory by shorting this jumper momentarily; then remove the cap to retain new settings.

COMS Data	J4
Clear Data	
Internal Battery	
External Battery	

J6: Keylock/Power LED Connector

The keylock switch is a 5-pin connector for locking the keyboard for security purposes.

Pin	Description
1	LED Output
2	NC
3	Ground
4	Keylock
5	Gnd

J7: Speaker Connector

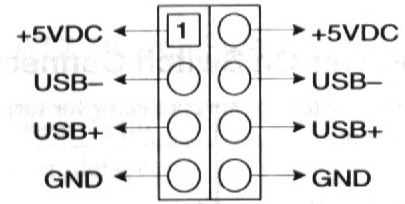
The speaker connector is a 4-pin connector for connecting the system and the speaker.

IR: Infrared Port Module Connector

The system board provides a 5-pin infrared connector—IR1 as an optional module for wireless transmitting and receiving.

USB Connector

Attach the USB cable to provide connection to USB devices.

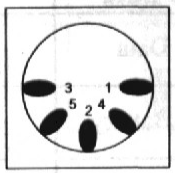


PS1 – Mouse Connector

Attach mouse cable to this 5-pin connector.

KB1 – Keyboard Connector

A 5-pin female DIN keyboard connector is located at the upper right corner of the mainboard. Plug the keyboard jack directly into this connector.



AT Power – Power Supply Connector

This power supply connector has two sets of six-wire connectors. Plug the dual connectors onto the board and make sure that the black leads are in the center.

Note: Before connecting the power supply, make sure it is not connected to the power source.

PRN1 – Parallel Port

This mainboard provides a 2 x 13-pin parallel port connector.

COM1/COM2 – Serial Port Connectors

This mainboard provides two 2 x 5-pin serial port connectors, COM1 and COM2.

FDC1 – Floppy Drive Connector

This mainboard has a 2 x 17-pin floppy drive connector.

IDE1/IDE2 – Primary/Secondary IDE Connectors

This mainboard has a 32-bit Enhanced PCI IDE Controller that provides two connectors, IDE0 (primary) and IDE1 (secondary).