TABLE OF CONTENT

MANUAL REVISION: B
Release date: JULY 1998

Chapter 1

1-1 Preface

Welcome to use the J-TX98B mainboard. This mainboard is support Pentium® processor PC/AT compatible system with ISA bus and PCI local bus. Also for this board including some special designs like share memory VGA on-board, 3D sound Pro Audio on-board , ACPI/AMP power management & powerful performance and so on. We think you will enjoying your personal computer because of your right choice.

1-2 Key Feature

- **Chip set:** SiS 5598 PCI/ISA with built-in VGA single chip and CMI8330 audio chip .
- **Support Processor:** Running at 75~300MHz CPU on a ZIF Socket 7. Support Intel Pentium® processor/Intel Pentium® processor with MMX™ technology; AMD-K5™/AMD-K6™; Cyrix/IBM 6X86™/6X86L™/6X86MX™ & IDT C6™ CPU.
- **L2 Cache:** Provides on board 512K Pipelined Burst SRAM to increase system performance.
- **Memory expansion:** Support 3 Banks of DRAM from 8MB to 384MB, and supports all kind of D-RAM type including FAST PAGE D-RAM, E.D.O. D-RAM and Synchronous D-RAM.
- **ISA and PCI expansion Slots:** Provides two 16-bits ISA & three 32-bits PCI slots.
- **PCI Bus Master IDE Controller:** On-board ULTRA DMA-33 bus master IDE controller with two connectors that supports four IDE devices in two channel, provide faster data transfer rate up to 33MB/sec. This controller supports PIO mode 3 and 4 and Bus Master IDE DMA.
- **Super MULTI-I/O:** Provide two high-speed UART compatible serial ports and one extra PS/2 mouse cable including, one parallel port with EPP and ECP capabilities. Two floppy drives of either 5.25” or 3.5” (1.44MB or 2.88MB) and also supported without an external card.
- **USB IrDA Connector:** This board supports two USB ports connector and one infrared port module connector for wireless interface. (The cable connect to two USB ports and the infrared module is optional parts.)
- **Built-In High performance VGA:**
  - Built-in VGA memory selected by BIOS setup from 1MB to 4MB
  - 64 bits display memory path
  - Support 170MHz pixel clock
  - Support full motion video playback required only 1MB DRAM and up to 1024x768x256 color Mode
  - Support DCI, Direct Draw, Direct MPEG, Microsoft® Video to improve play back quality
  - Support high resolution graphic modes
- **3D Sound Pro Audio on-board:**
  - Sound Blaster 16/PRO compatible with stereo voice up to 48KHz sampling rates.
  - Digital audio SPDIF(Sony/Philips Digital Interface)Input/Output.
  - Support Microsoft Direct Sound 3D Directx 5.0
  - Built-in 3D surround sound.
  - Fall Duplex 16-bits CODEC.
  - Dual channel Game Port.
  - HRTF 3D Positional Audio.

Chapter 2

Hardware Installation

2-1 Unpacking

This mainboard package should contain the following:

- The J-TX98B mainboard
- USER'S MANUAL for mainboard
- Cable set for IDE x1, Floppy x1, COM1 & COM2 x1, LPT & PS/2 Mouse x1, VGA x1,Audiox1
- CD for Drivers PACK

The mainboard contains sensitive electronic components which can be easily damaged by electron-static, so the mainboard should be left in its original packing until it is installed.

Unpacking and installation should be done on a grounded anti-static mat.

The operator should be wearing an anti static wristband, grounded at the same point as the anti-static mat.

Inspect the mainboard carton for obvious damage. Shipping and handling may cause damage to your board. Be sure there are no shipping and handling damages on the board before proceeding.

After opening the mainboard carton, extract the system board and place it only on a grounded anti-static surface component side up. Again inspect the board for damage.

Press down on all of the socket IC's to make sure that they are properly inserted. Do this only on with the board placed on a firm flat surface.

Warning: Do not apply power to the board if it has been damaged.

You are now ready to install your mainboard. The mounting hole pattern on the mainboard matches the IBM-AT system board.

It is assumed that the chassis is designed for a standard IBM™ XT/AT™ main board mounting. Place the chassis on the anti-static mat and remove the cover.

Take the plastic clips, Nylon stand-off and screws for mounting the system board, and keep them separate.

2-2 Mainboard Layout

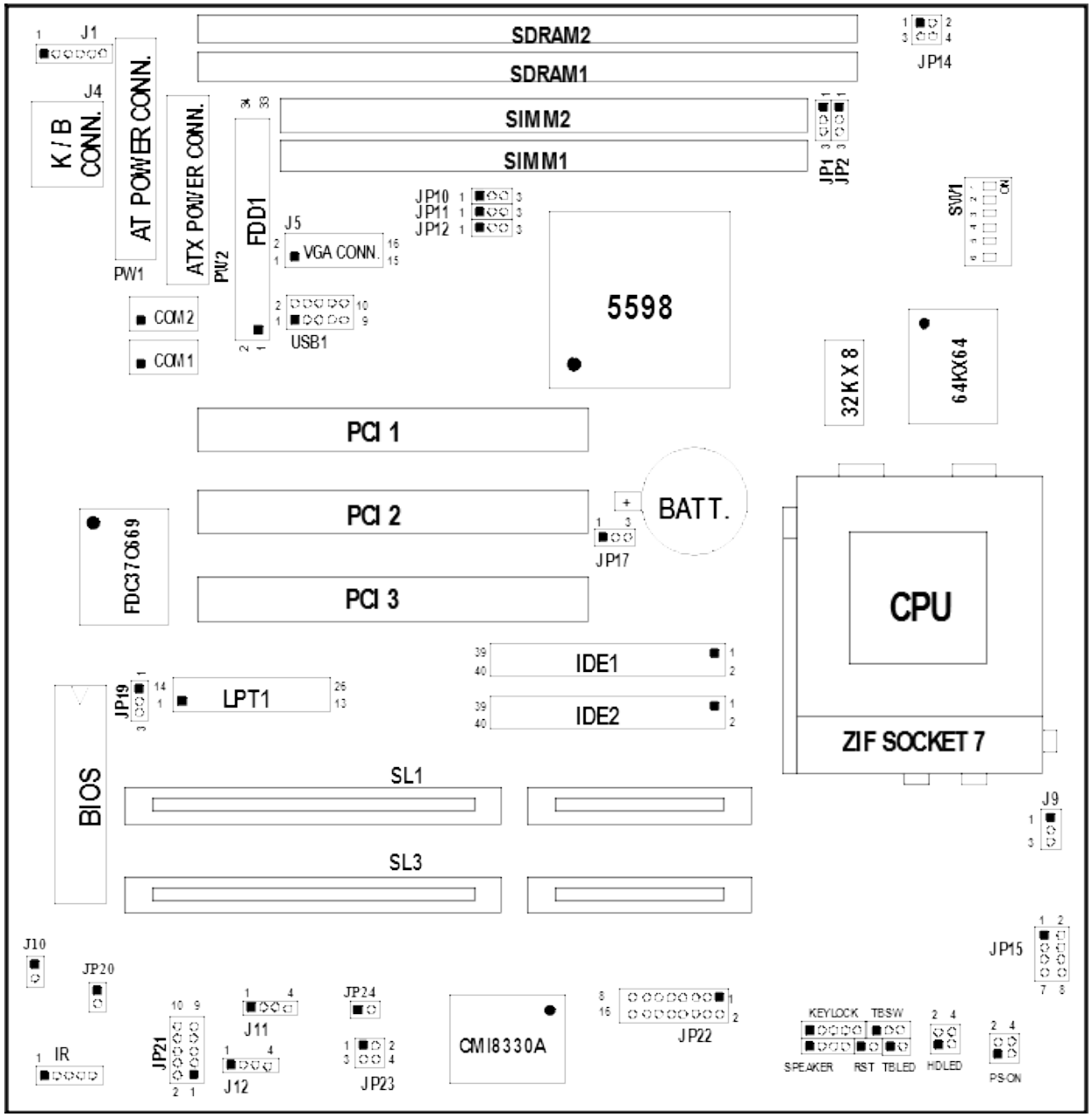


Figure 2-1

2-3 Quick Reference for Jumpers, Connectors & Expansion Socket

Jumpers

Jumper	Name	Description	Page
JP17	CMOS RAM Clear	1-2 Normal 2-3 Clear CMOS	p. 8
JP19	FLASH ROM Voltage setting	1-2 12V FLASH ROM 2-3 5V FLASH ROM	p. 5
JP15	CPU Voltage selector	for detail page 7	p. 5
SW1	DIP switch for CPU type selection	for detail page 7	p. 6
JP1,JP2,JP10	Internal VGA function selection	for detail page 10	p. 8

Connectors

Connector	Name	Description	Page
J4	Keyboard Connector	5-Pins Female	p.11
USB1	USB Port Connector	10-Pins Block	p.14
J1	PS/2 Mouse Connector	6-Pins Block	p.11
COM1,COM2	Serial Port COMA & COMB	10-Pins Block	p.12
LPT1	Parallel Port Connector	26-Pins Block	p.11
FDD1	Floppy Driver Connector	34-Pins Block	p.12
IDE1	Primary IDE Connector	40-Pins Block	p.12
IDE2	Secondary IDE Connector	40-Pins Block	p.13
J5	VGA Connector	16-Pins Block	p.15
J9	CPU FAN Connector	1-2 12V Power Connector 2-3 ACPI FAN power control Connector	p.14
IR	Infrared Module Connector	5-Pins Block	p.14
PW1	AT Power Connector	12-Pins Block	p.10
PW2	ATX Power Connector	20-Pins Block	p.10
FPC	Front Panel Connector	16-Pins Block	p.13
HDLED	IDE activity LED	2-Pins Connector	p.13
PS-ON	ATX power button/soft power button	4-Pins connector	p.15
JP21	Audio connector	10-pin connector	p.15
JP22	Game port connector	16-pin connector	p.15
J11	CD-Audio/Panasonic	4-pin Block	p.16
J12	CD-Audio/Sony/IDE	4-pin Block	p.16
JP23	SPDIF/Digtal CD Audio connector	1-2 Audio out 3-4 Audio In	p.16

Expansion Sockets

Socket/Slot	Name	Description	Page
SL1, SL3	ISA Slot	16-bits ISA Bus Expansion slots	p.10
PCI1, PCI2, PCI3	PCI Slot	32-bits PCI Local Bus Expansion slots	p.10
SIMM1, SIMM2	SIMM Module Socket	72-Pins SIMM D-RAM Module Expansion Socket	p.9
SDRAM1, SDRAM2	DIMM Module Socket	168-Pins DIMM SDRAM Module Expansion Socket	p.9
ZIF SOCKET 7	CPU Socket	Pentium CPU Socket	p.9

2-4 Installation Steps

Before using your computer, you must follow the steps as follows:

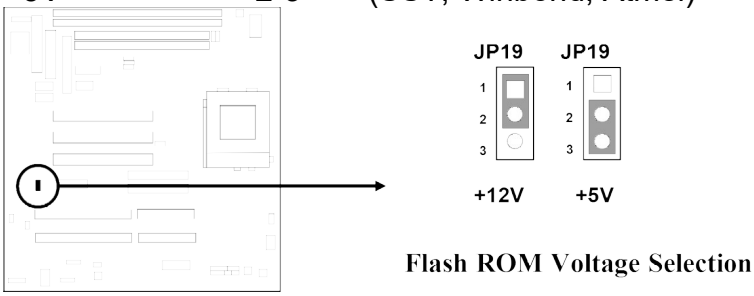
1. Set Jumpers on the Motherboard
2. Install the CPU
3. Install DRAM Modules
4. Install Expansion card
5. Connect Cables, Wires, and Power Supply

2-5 Jumper Settings

1. Flash ROM Voltage Selection: JP19 (Yellow color selector)

This jumper set the voltage supplied to the Flash ROM. It depend on Flash ROM Brand, for this jumper will be setted by factory, you don't need to change this jumper by yourself.

Programming	**JP19**	
+12V	1-2	(Intel, MXIC)
+5V	2-3	(SST, Winbond, Atmel)



Flash ROM Voltage Selection

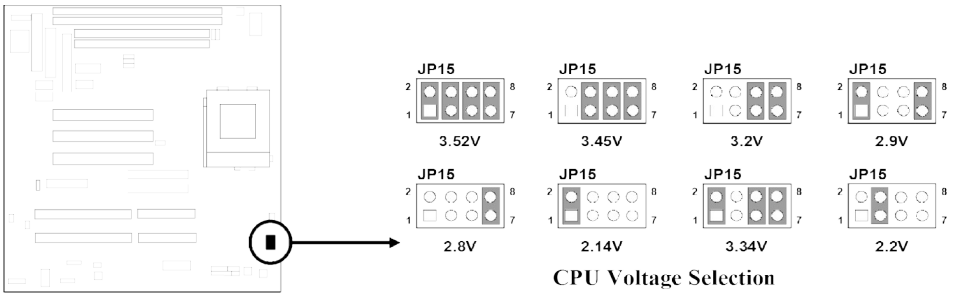
2. CPU Voltage Selection: JP15 (Yellow color selector)

This jumper is used for adjusting CPU working voltage, for this main board design it can auto detect the single voltage CPU or dual voltage CPU.

The table of JP15 CPU voltage selection (O: open, S: short)

CPU TYPE	Voltage	1-2	3-4	5-6	7-8	Default
Intel Pentium processor Voltage P54VRE AMD single Voltage K5 Cyrix/IBM single Voltage 6X86 IDT-C6 150/180/200	3.52V	S	S	S	S	
Intel Pentium processor Voltage P54STD	3.45V	O	S	S	S	
AMD K6 Dual Voltage AMD-K6-233	3.2V	O	O	S	S	
AMD-K6-166 Dual Voltage AMD-K6-200 Cyrix/IBM 6X86MX -166, -200 Dual Voltage (MX 166/200/233)	2.9V	S	O	O	S	
Cyrix/IBM 6X86L Dual Voltage 6X86L 166+ Intel Pentium processor with MMX technology Dual Voltage (166/200/233)	2.8V	O	O	O	S	*
AMD-K6/233 Dual Voltage AMD-K6/266/300	2.2V	O	S	O	O	

* ***If your CPU Type is not including in above table, please refer to the CPU voltage selection on below to choose the correct working voltage for your CPU.***



CPU Voltage Selection

3. CPU Type selection: SW1 (6-Pins DIP Switch)

This mainboard design use 6-pins DIP switch to select the CPU, external clock frequency & Bus frequency ratio, and the external clock frequency multiplied by Bus frequency ratio is the CPU frequency as the tables below:

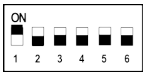
Table for CPU external clock frequency

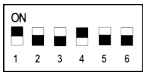
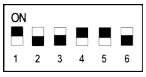
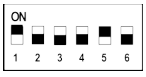
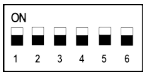
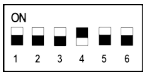
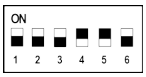
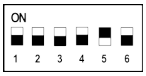
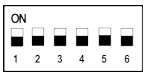
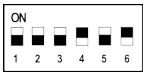
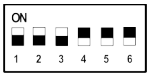
DIP SWITCH 1	DIP SWITCH 2	DIP SWITCH 3	External clock frequency
ON	ON	ON	50MHz
ON	OFF	OFF	60MHz
OFF	OFF	OFF	66.6MHz
OFF	ON	ON	75MHz

Table for Bus frequency Clock Ratio

DIP SWITCH 4	DIP SWITCH 5	DIP SWITCH 6	Clock Ratio
OFF	OFF	OFF	1.5
ON	OFF	OFF	2.0
ON	ON	OFF	2.5
OFF	ON	OFF	3.0
OFF	OFF	OFF	3.5
ON	OFF	ON	4.0
ON	ON	ON	4.5

Table for CPU Type selection (■: ON, ▬: OFF)

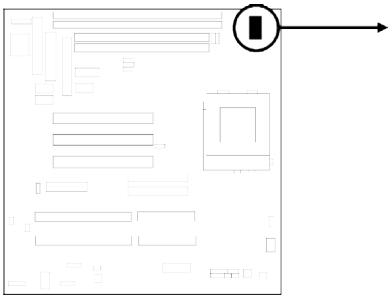
CPU Type	DIP Switch Setting	DIP Switch (1,2,3) External clock frequency	DIP Switch (4,5,6) Clock Ratio	External clock frequency × Ratio = CPU frequency
75MHz Pentium processor AMD K5-75MHz		50MHz	1.5	75MHz
Cyrix/IBM 6X86-120+		50MHz	2	100MHz
C6-150MHz		50MHz	3	150MHz
90MHz Pentium processor AMD-K5-90		60MHz	1.5	90MHz
	DIP Switch	DIP Switch (1,2,3)	DIP Switch (4,5,6)	External clock

CPU Type	Setting	External clock frequency	Clock Ratio	frequency × Ratio = CPU frequency
120MHz Pentium processor Cyrix/IBM 6X86-150+		60MHz	2	120MHz
150MHz Pentium processor Cyrix/IBM 6X86MX-166		60MHz	2.5	150MHz
C6-180MHz		60MHz	3	180MHz
100MHz Pentium processor AMD-K5-100 AMD-K6-133		66MHz	1.5	100MHz
133MHz Pentium processor Cyrix/IBM 6X86-166+		66MHz	2	133MHz
166MHz Pentium processor 166MHz Pentium processor with MMX technology Cyrix 6X86MX-166 AMD-K5-166 AMD-K6-166		66MHz	2.5	166MHz
200MHz Pentium processor 200MHz Pentium processor with MMX technology Cyrix 6X86MX-233 AMD-K6-200 C6-200MHz		66MHz	3	200MHz
233MHz Pentium processor with MMX technology AMD-K6-233		66MHz	3.5	233MHz
AMD-K6-266 AMD-K6-2/266		66MHz	4	266MHz
AMD-K6- 300		66MHz	4.5	300MHz

NOTE: ***① Before installing the CPU, Please check the CPU Frequency and Clock Ratio from your supplier.***

② For Cyrix/IBM 6X86MX series, please double check the CPU's Frequency and Clock Ratio.

③ 75MHz/83.3MHz CPU's Bus Frequency is not in the regular specification, therefore, we do not recommend to use it.



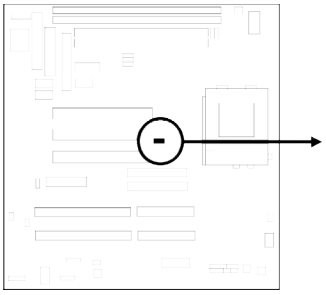
DIP Switch for CPU Type

4. CMOS RAM Clear: JP17 (Yellow color selector)

WARNING: Make sure your computer is POWER OFF when you CLEAR CMOS.

Connect a jumper Cap over this jumper for a few seconds, will clears information stored in the CMOS RAM Chip that input by user, such as hard disk information and passwords. After CLEAR CMOS, you must enter the BIOS setup (by holding down <DEL> during power-up) to re-enter BIOS information (see BIOS SETUP).

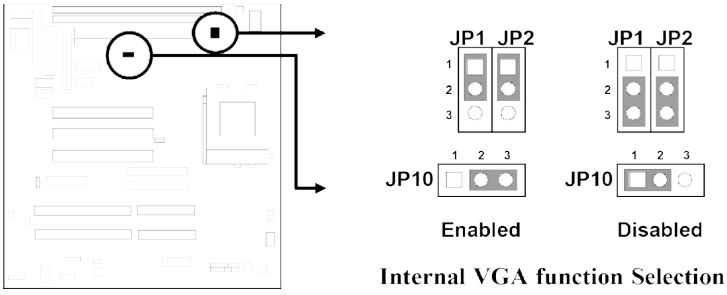
Selections	**JP17**	
Normal	1-2	(Default)
Clear CMOS	2-3	(momentarily)



CMOS RAM (Normal / Clear CMOS Data)

5. Internal VGA function Selection: JP1, JP2, JP10

Selections	**JP1**	**JP2**	**JP10**
Enabled	1-2	1-2	2-3
Disabled	2-3	2-3	1-2



Internal VGA function Selection

2-6 System Memory (DRAM)

This main board can be installed with 72 pin SIMM module DRAM, or 168 pins DIMM module synchronous DRAM. The DRAM memory system on main board can support BANK 0, BANK 1, BANK 2, for 72 pin SIMM socket was defined to be BANK 0, or BANK2 and SDRAM1 & SDRAM2 to be BANK 0 & BANK 1.

Because of the 72-pins SIMM module is 32 bits width using 2 pcs which can match a 64 bits pentium system.

Install DRAM on this main board please reference the table below.

JP11 2-3 closed JP12 2-3 closed SIMM1, SIMM2 BANK 0	JP11 1-2 closed JP12 1-2 closed SIMM1, SIMM2 BANK 2	SDRAM1 BANK 0	SDRAM2 BANK 1	System can be Accept or not
72 Pin FPM or EDO SIMM		×	×	Accept
	72 Pin FPM or EDO SIMM	×	×	Not Accept
×	×	168 Pin S-DRAM DIMM	×	Accept
×	×	×	168 Pin S-DRAM DIMM	Not Accept
72 Pin FPM or EDO SIMM		168 Pin S-DRAM DIMM	×	Not Accept
72 Pin FPM or EDO SIMM		×	168 Pin S-DRAM DIMM	Accept
72 Pin FPM or EDO SIMM		168 Pin S-DRAM DIMM	168 Pin S-DRAM DIMM	Not Accept
	72 Pin FPM or EDO SIMM	168 Pin S-DRAM DIMM	168 Pin S-DRAM DIMM	Accept
×	×	168 Pin S-DRAM DIMM	168 Pin S-DRAM DIMM	Accept
×	72 Pin FPM or EDO SIMM	168 Pin S-DRAM DIMM	×	Accept

* ***JP11 2-3 closed, JP12 2-3 closed (Default setting) for BANK 0.***
* ***Because of Share memory the system must occupy BANK 0 to booting.***

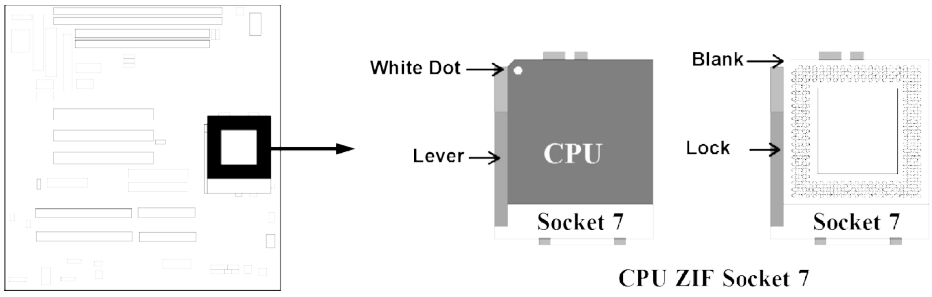
2-7 Central Processing Unit (CPU)

The main board provides a 321-pins ZIF Socket 7. The CPU on mother board must have a fan attached to prevent overheating.

WARNING: Without a fan, the CPU will be overheated and cause damage to both the CPU and the motherboard.

To install a CPU, first turn off your system and remove its cover. Locate the ZIF socket and open it by first pulling the lever sideways away from the socket then upwards to a 90-degree right angle. Insert the CPU with the white dot as your guide. The white dot should point towards the end of the level. The CPU has a corner pin for three of the four corners, the CPU will only fit in the one orientation as shown as follow. With the added weight of the CPU fan, no force is required to insert the CPU. Once completely inserted, hold down on the fan and close the socket's lever.

IMPORTANT: You must set jumpers SW1 "DIP Switch for CPU Type" on page 6 and jumper JP15 "CPU Voltage Selection" on page 6 depending on the CPU that you install.



CPU ZIF Socket 7

2-8 Expansion Cards

First read your expansion card documentation on any hardware and software settings that may be required to setup your specific card.

Installation Procedure:

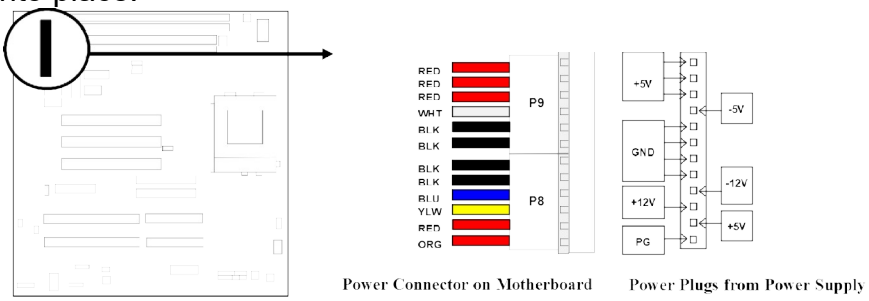
1. Read the documentation for your expansion card.
2. Set any necessary jumpers on your expansion card.
3. Remove your computer's cover.
4. Remove the bracket on the slot you intend to use.
5. Carefully align the card's connectors and press firmly.
6. Secure the card on the slot with the screw you remove in step 4.
7. Replace the computer's cover.
8. Setup the BIOS if necessary.
9. Install the necessary software drivers for your expansion card.

2-9 External Connectors

1. Power connector: AT Power Connector (12-pins block): PW1

This connector connects to a standard AT power supply. To connect the leads from the power supply, ensure first that the power supply is not plugged. Most power supplies provide two plugs (P8 and P9), each containing six wires, two of which are black. Orient the connectors so that the black wires are located in the middle.

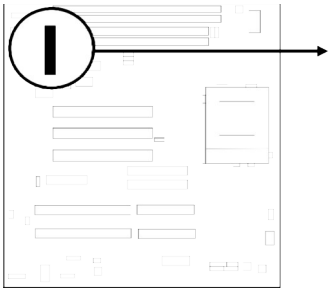
Using a slight angle, align the plastic guide pins on the lead to their receptacles on the connector. Once aligned, press the lead onto the connector until the lead locks into place.



Power Connector on Motherboard Power Plugs from Power Supply

2. Power Connector: ATX Power Connector (20-pins block): PW2

ATX Power Supply connector. This is a new defined 20-pins connector that usually comes with ATX case. The ATX Power Supply allows to use soft power on momentary switch that connect from the front panel switch to 2-pins Power On jumper pole on the motherboard. When the power switch on the back of the ATX power supply turned on, the full power will not come into the system board until the front panel switch is momentarily pressed. Press this switch again will turn off the power to the system board.



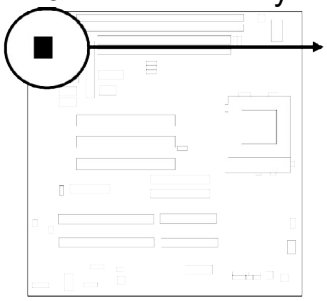
PIN	ROW2	ROW1
1	3.3V	3.3V
2	-12V	3.3V
3	GND	GND
4	Soft Power On	5V
5	GND	GND
6	GND	5V
7	GND	GND
8	-5V	Power OK
9	+5V	+5V (for Soft Logic)
10	+5V	+12V

Pin 1

ATX Power Connector

3. Keyboard Connector (5-pins female): J4

This connection is for a standard IBM-compatible keyboard. May also be known as a 101 enhanced keyboard.

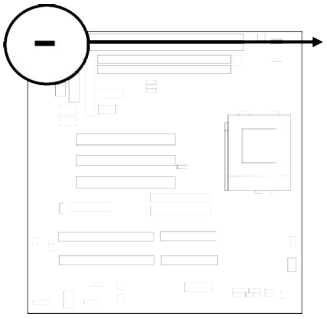


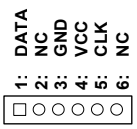
Keyboard Connector (5-pins female)

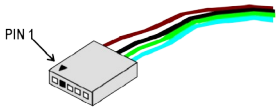
Connector Plug from Keyboard

4. PS/2 Mouse Connector (6-pins block): J1

If you are using a PS/2 mouse, you must purchase an optional PS/2 mouse set which connects to the 6-pins block and mounts to an open slot on your computer's case.





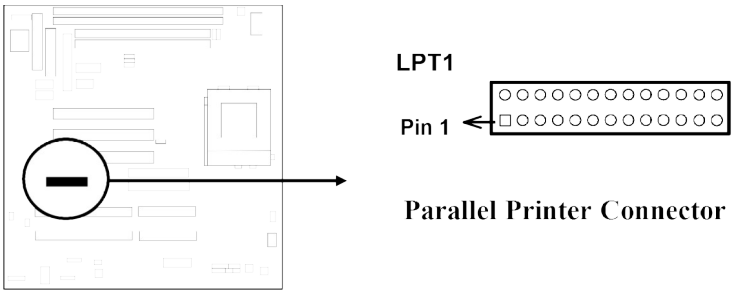


PS/2 Mouse Module Connector

5. Parallel Printer Connector (26-pins Block): LPT1

Connection for the enclosed parallel port ribbon cable with mounting bracket. Connect the ribbon cable to this connection and mount the bracket to the case on an open slot. It will then be available for a parallel printer cable.

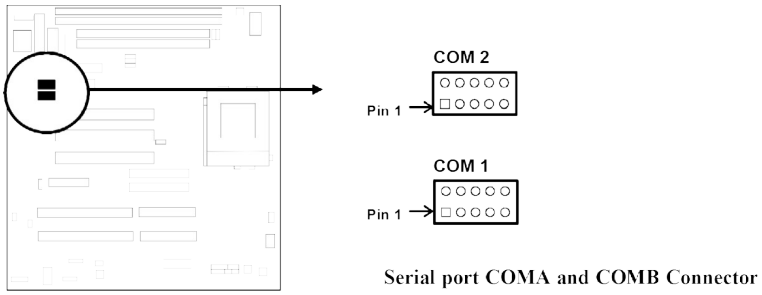
NOTE: Serial printers must be connected to the serial port. You can enable the parallel port and choose the IRQ through BIOS Setup.



Parallel Printer Connector

6. Serial port COMA and COMB Connector (Two 10-pins blocks): COM1, COM2

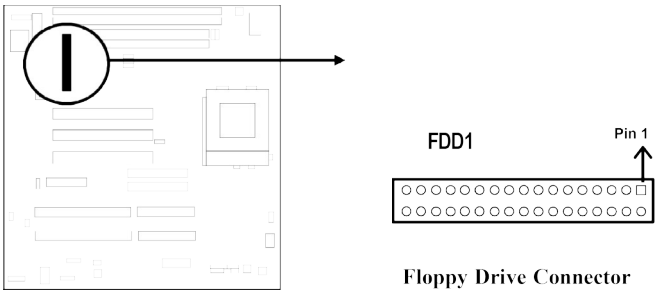
These connectors support the provided serial port ribbon cables with mounting bracket. Connect the ribbon cables to these connectors and mount the bracket to the case on an open slot. The two serial ports on the mounting bracket will then be used for pointing devices or other serial devices. See BIOS configuration of "Onboard Serial Port"



Serial port COMA and COMB Connector

7. Floppy drive Connector (34-pins block): FDD1

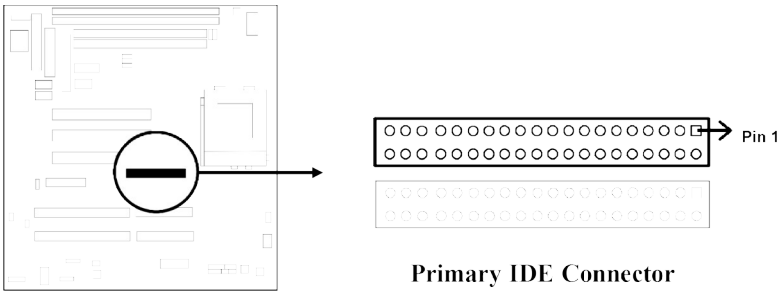
This connector supports the provided floppy drive ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to the floppy drives.



Floppy Drive Connector

8. Primary IDE Connector (40-pins block): IDE1

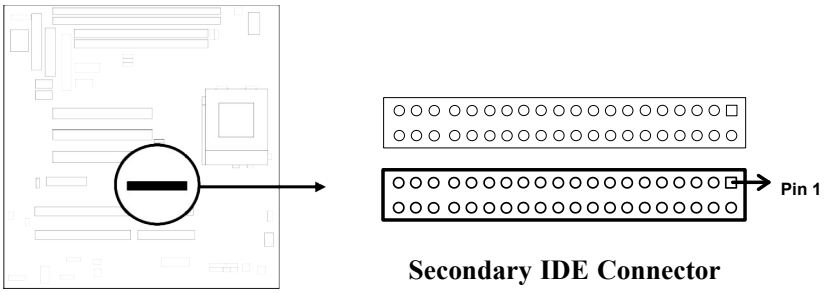
This connector supports the provided IDE hard disk ribbon cable. After connecting the single plug end to motherboard, connect the two plugs at other end to your hard disk(s). If you install two hard disks, you must configure the second drive to Slave mode by setting its jumpers accordingly. Please refer to the documentation of your hard disk for the jumper settings.



Primary IDE Connector

9. Secondary IDE Connector (40-pins block): IDE2

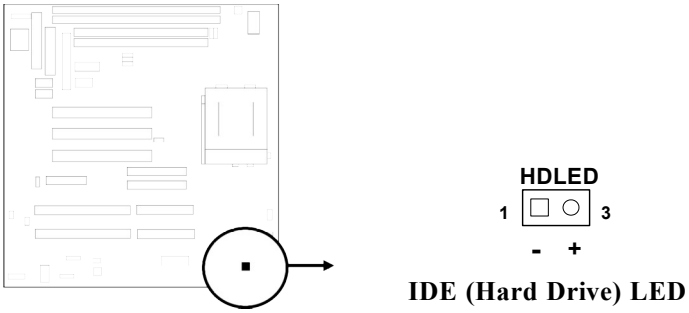
This connector connects to the next set of Master and Slave hard disks. Follow the same procedure described for the primary IDE connector. You may also configure two hard disks to be both Masters using one ribbon cable on the primary IDE connector and another ribbon cable on the secondary IDE connector.



Secondary IDE Connector

10. IDE activity LED: HDLED

This connector connects to the hard disk activity indicator light on the case.



IDE (Hard Drive) LED

11. Front Panel connector: This 16-pins connector to connect to case front panel switch.

A. Turbo LED switch: TBLED

The motherboard‘s turbo function is always on. The turbo LED will remain constantly lit while the system power is on. You may also to connect the Power LED from the system case to this lead. See the figure below.

B. Reset switch lead: RST

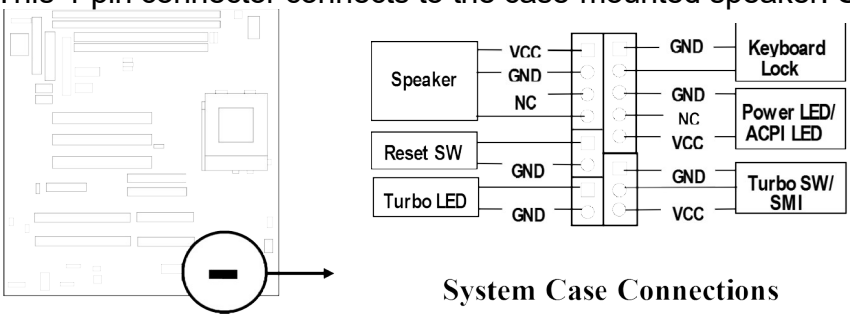
This 2-pin connector connects to the case-mounted reset switch for rebooting your computer without having to turn off your power switch. This is a preferred method of rebooting in order to prolong the life of the system‘s power supply. See the figure below.

C. Keyboard lock switch lead & Power LED: KEYLOCK & PW

This 5-pin connector connects to the case-mounted key switch for locking the keyboard for security purposes and Power LED together.

D. Speaker connector: SPEAKER

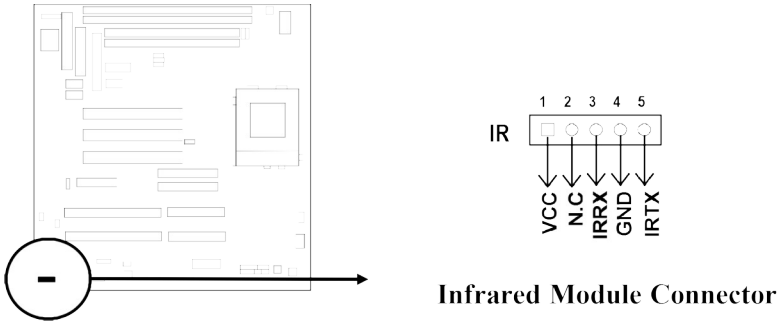
This 4-pin connector connects to the case-mounted speaker. See the figure below.



System Case Connections

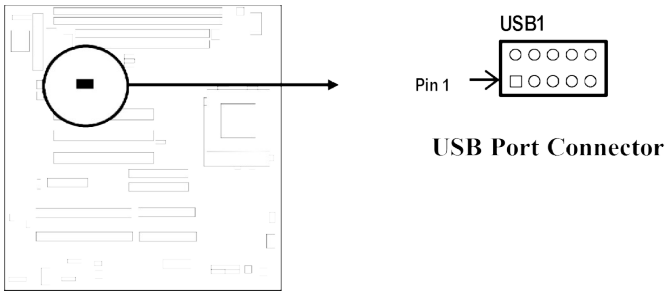
12. IR infrared module connector: IR

This connector supports the optional wireless transmitting and receiving infrared module. This module mounts to small opening on system cases that support this feature you must also configure the setting through BIOS setup. Use the five pins as shown on the Back View and connect a ribbon cable from the module to the motherboard according to the pin definitions.



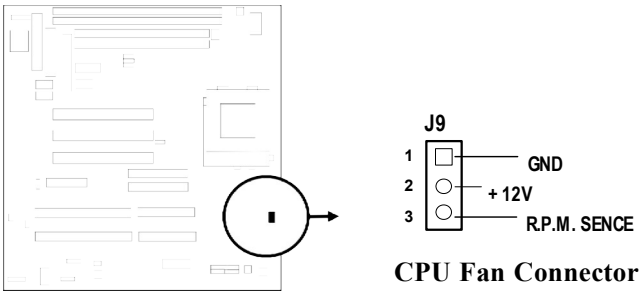
Infrared Module Connector

13. USB Port connector: USB1



USB Port Connector

14. CPU FAN connector: J9

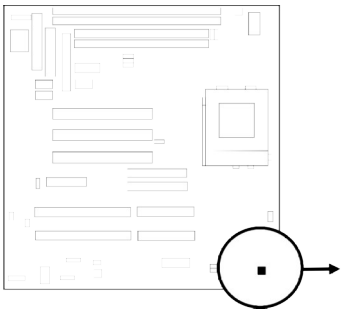


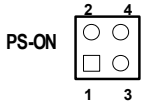
CPU Fan Connector

15. ATX Power button/ Soft Power button: PS-ON

When using ATX power, the system power can be controlled by a momentary switch connected to PS-ON Pushing the button once will switch the system between ON and SLEEP. Pushing the switch while in the ON mode more than 4 seconds will turn the system off. The system Power LED shows the status of the system's power.

Selections	**PS-ON**
One touch Power ON/OFF	1-3
One touch Power ON/4sec power OFF	2-4

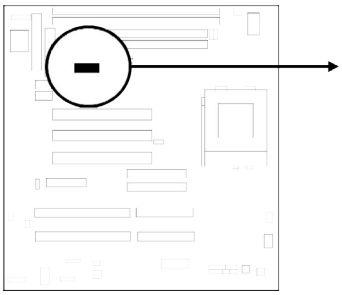


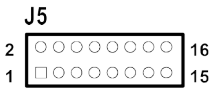


ATX Power button/Soft Power button

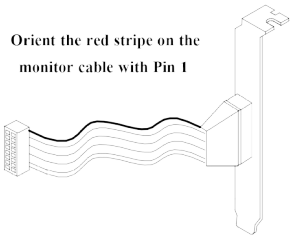
16. VGA connector: J5

This connector supports the provided VGA cable with mounting bracket. Connect the ribbon cable to connector and mount the bracket to the case on an open slot .

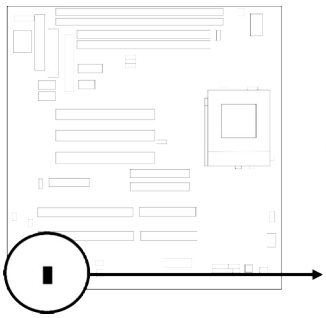


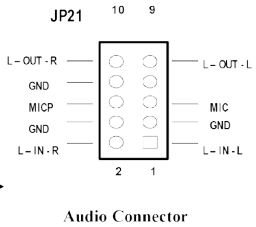


VGA Connector

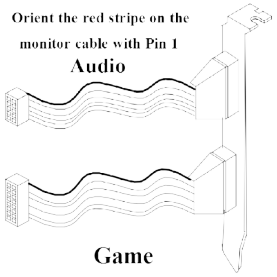


17. Audio connector: JP21

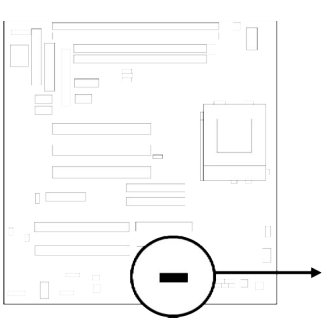


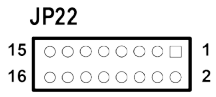


Audio Connector

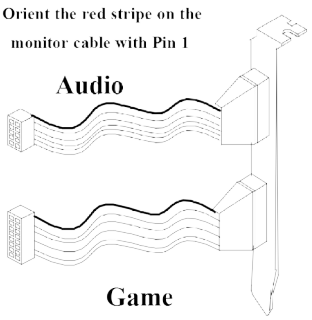


18. Game Port connector: JP22

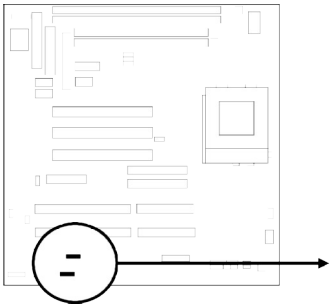


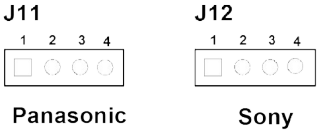


GAME PORT Connector



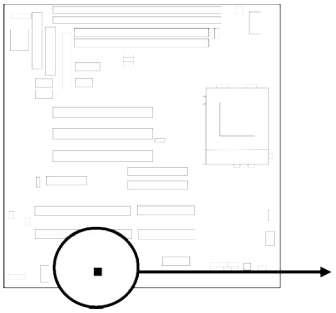
19.CD-ROM Audio connector: J11,J12

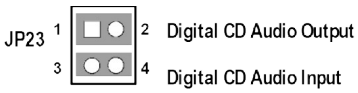




CD-ROM Audio connector

20.SPDIF Sony/PHILIPS Digital Interface Input/Output connector: JP23





SPDIF Sony/Philips Digital Interface Input/Output

Chapter 3

Software Installed

3-1 Display Card Driver Quick Installation

WINDOWS 3.1X Display Driver Quick Installation

Step 1. Run windows, Change your directory path to D:\5598\VGA\WIN31, Running "setup.exe"

According the process to complete installation

Step 2. From "SIS Multimedia V1.04" window, you can setup the resolution, Font size and monitor type

WINDOWS 95 Display Driver Quick Installation

Step 1. Boot form Windows 95, Double-click "My computer" icon, "Control panel" icon, "Display" icon

Step 2. When the "Display properties" window appear, choose "setting" tab, select "Change Display type" (if you are windows 95 OSR2 user select "Advanced properties")

Step 3. Select "Adapter type" section, Select "Change"

Step 4. When the "Select Device" window appear, select "Have Disk", Change the directory path from "A:\" to "D:\5598\VGA\Win95", select "OK". (if your CD-ROM is D driver)

Step 5. When the "Select Device" window appear again, select "OK".

Step 6. When the "Change Display type" window appear again, select "CLOSE"

Step 7. When the "Display properties" window appear again, select "CLOSE"

Step 8. Restart Windows 95

Step 9. If you repeat step 1 and step 2, you can setup the resolution, Font size and monitor type , You will be finished your installation

WINDOWS NT4.0 Display Driver Quick Installation

Step 1. Boot form Windows NT4.0, Double-click "My computer" icon, "Control panel" icon, "Display" icon

Step 2. When the "Display properties" window appear, choose "setting" tab, select "Display type"

Step 3. When the "Display type" window appear, Select "Change"

Step 4. When the "Change Display" window appear, select "Have Disk", Change the directory path from "A:\" to "D:\5598\VGA\WINNT40", select "OK". (if your CD-ROM is D driver)

Step 5. When the "Display type" window appear again, select "CLOSE".

Step 6. When the "Display properties" window appear again, select "CLOSE"

Step 7. Restart Windows NT40

Step 8. When the "Display properties" window appear, setup your resolution, select "test", select "OK", you will be finished your installation

WINDOWS NT3.5X Display Driver Quick Installation

Step 1. Boot form Windows NT3.5X, Copy "D:\5598\VGA\WINNT35*.*" to "A:\" (if your CD-ROM is D driver)
Double-click "Main" icon, select "Control panel" icon, select "Display" icon

Step 2. When the "Display setting" window appear, select "Change display type"

Step 3. When the "Display type" window appear, select "Change"

Step 4. When the "Select device" window appear, select "OTHER". Push your Disk into Driver A select "install"

Step 5. When the "Install device" window appear, select "YES"

Step 6. When the "Windows NT setup" window appear, select "CONTINUS"

Step 7. Restart Windows NT3.5X, you will be finished your installation

SOFTWARE MPEG XING 1.4

(Only use for Windows 3.1x)

step 1. Run Windows 3.1X, Change your directory path to D:\xing\xing140\DM (if your CD-ROM is D driver)

step 2. Run "setup" according the process to complete installation, select "XINGMPEG PLAYER " icon, play MPEG file or Video CD

SOFTWARE MPEG XING 3.02

(Only use for Windows 95)

step 1. Run Windows 95, Change your directory path to D:\xing\xing302
(if your CD-ROM is D driver)

step 2. Run "setup" according the process to complete installation, select talk bar "Start", "Program", "XingMpeg play", play MPEG file or Video CD

3-2 Sound Card Driver Quick Installstion:

Windows 95 OSR2 Driver Installation

step1: Before install sound driver please double-click ”My Computer” icon, ”Control Panel”icon, ”System”icon,”Device Manager”icon

step2: check ”Sound,Video and game confrollers”and ”Other device” item,if there have”Sound device”or have”!”,please remove it first.

step3: After restart system,In ”Control Panel” icon choose ”Add new hardware” to add hardware in Win95.

step4: Choose ”No” don’t let Windows to search for new hardware,and select hardware type ”Sound,Video and game controllers”.

step5: Follow the step choose”Have Disk”,”Browse”,to change the Folders to D:\W95DRV.

step6: Select ”OK” to finish install procedure.

step7: Restart system.

Windows NT4.0 Installation

step1: Double click ”My Computer”,”Control Panel”,”Multimedia”
step2: Choose ”Review” item and ”Add” item,double – click ”Unlisted or Update Driver” item.
step3: Double- click ”Browes” to change the Folders to D:\NT40DRV
step4: Choose ”OK” to finish install procedure.
step5: Restart System.

DOS Driver Installation

step1: Excute D:\DOS-W31\Install.exe.
step2: Please follow the default value to install Driver.
step3: Restart System.

Audio Rack Quick Installation

In Windows95 OSR2,Windows98 excute ”setup” in D:\W95-98AP

Windows98 Driver Installation

step1: Before install sound card driver please double-click ”My Computer” icon, ”Control Panel” icon, ”System” icon, and Choose ”Device Manager” item.
step2: Check”Sound,Video and game controllers” and ”Other Device” item,if there have ”sound device or ”!”please remove it first.
step3: In ”Control Panel” icon,choose ”Add New Hardware”icon,and choose ”Next”,the windows will show ”CMI8330 Audio Adapter”,click “Next”and choose ”Display a list of all Drivers”, select ”Sound,Video and game controllers”item.
step4: Choose ”Have Disk”,”Browse” and chang the Folders to ”D:\W98DRV.
step5: Select ”OK”to Finish install.
step6: When Windows98 ask ”Are all your drivers installed now” Please select ”Yes” and click ”Next”, ”Finish” .
step7: Restart System.

Windows 3.1 Driver Insrallation

In Windows3.1 ”File Manager” icon,excute ”D:\DOS-W31\WSETUP.EXE” and choose ”Setup Program” item,click ”install” to install ”CMI8330 Audio Rack” icon.

JOYSTICK Installation

In Windows95 OSR2, Windows98,double-click ”My Computer”, ”Game controllers”,select ”Properties” item, ”Cailibrate” to adjust your joystick before using it.

Chapter 4

Question and Answer

Question 1: When use External VGA CARD and using DIMM in SDRAM2 (BANK2) only the system don't have the screen.

Ans: Change the DIMM to SDRAM1 to solve this problem.

Question 2: When using Ti 32MB DIMM 2pcs, no screen on system.

Ans: Please change the "SDRAM CAS Latency" setting in BIOS CHIPSET FEATURES SETUP the default value is "3T", Please change to "2T", Please follow the step to change the setting

step 1. Only plug one pcs DIMM let the system boot up.
step 2. Press <DEL> enter CMOS SETUP UTILITY to set up.
step 3. Choice "CHIPSET FEATURES SETUP"
step 4. Setting "SDRAM CAS LATENCY" value to "2T"
step 5. SAVE CMOS and EXIT
step 6. Power Off and Plug another DIMM, Power On again.

Question 3: When Install OS/2 REV:3 will SCSI Hard Disk and IDE CDROM plug in Slave Mode, the system will hang up.

Ans: Please change the IDE CDROM DRIVER to Master Mode to solve this Problem.

Question 4: After Install Win 95 have "?" mark in PCI Universal Serial Bus Device item when you check Device Manager icon in control panel.

Ans: You can solve the problem "Microsoft Supplemental 3 for Windows 95" Utility, because Microsoft build in SIS USB Device Driver after Supplemental 3 utility. Before this version Windows 95 can not recognize USB Device in SIS 5598 chip set.

目 錄

第一章

第一章

1-1 前言

首先，感謝您採購 J-TX98B 主機板，此款主機板除了具有最新之MMX 技術及高效率的 PCI介面以外，它還有內含 VGA 卡、3D 音效卡、ACPI/AMP省電功能和一些其他功能強大的設計整合在這片主機板上。

1-2 主要特性

- **系統晶片(chipset)**
  採用最新一代 SiS5598內建 VGA 顯示晶片和 CMI 8330 音效晶片。
- **中央處理器(CPU)支援：**
  支援以Socket 7之多種不同 PENTIUM處理器，如 INTEL PENTIUM處理器, AMD-K6, AMD-K6, Cyrix 6X86MX 等處理器。
- **L2 快取記憶体(cache memory)：**
  支援主機板L2 512K 外部快取記憶体，提高系統效能。
- **支援兩種動態記憶体(D-RAM)插座：**
  J-TX98B 可提供 3 個 BANK 動態記憶模組，兩個 72-pins EDO SIMM插座為 1 個 BANK，而 168-pins S-DRAM插座各為 1個BANK，記憶最大可擴充至 640MB。
- **ISA 及 PCI 擴充介面：**
  提供 2 個 16-bits 的 ISA 擴充槽 及 3 個 32-bits 的 PCI 擴充槽。
- **PCI BUS MASTER IDE 控制器：**
  內建最新的 Ultra DMA-33 Master IDE 控制器，提供兩組連接頭，可支援 4 IDE 裝置，提高傳輸效率至 33MB/sec。
- **提供先進組態與電源管理(ACPI/AMP)：**
  支援作業系統直接電源管理 J-TX98B 主機板已具備了 ACPI/AMP 功能，對於 WINDOWS 98作業系統所提供之電源管理能夠充分發揮，達到以下各項功能：
- 利用輸入訊號 、啟動及切換電腦運行模式:
  ACPI的功能必須在ATX電源供應器環境下始能發揮其效能，使用者可利用數據機來遙控電腦的啟動、電腦運行模式及關閉等，以達到省電及資料存取之功能。
- RTC(Real time clock)啟動：
  利用主機板上 RTC 的 CMOS RAM 可設定電腦的啟動時間。
- ACPI其他省電功能:
  基本上 ACPI 尚提供多種省電功能狀態如 SUSPEND MODE 等等。
- 內建高效能的 VGA 顯示晶片：
  可從 BIOS Setup 中選擇 1MB 到 4MB 的內建式 VGA 顯示卡記憶體。
  64 位元顯示記憶體模式。
  支援 170MHz 的圖形元素計時器。
  只需 1MB 的 DRAM 便可支援 1024 x 768 x 256 色模式的電影播放。
  支援 DCI、Direct Draw、Direct MPEG、Microsoft® Video 模式，以提高播放品質。
  支援高解析度圖形模式。
- **內建 3D Sound Pro Audio 音效卡：**
  Sound Blaster 16/PRO 相容及 48KHz 的取樣速率立體音效。
  數位音訊 SPDIF (Sony/Philips Digital Interface) 輸入及輸出。
  支援 Microsoft 的 Direct Sound 3D 及 Directx 5.0。
  支援 3D 環繞音效,完整的 Duplex 16位元 CODEC, HRTF 3D 位置的視訊。

第二章

硬體安裝

2-1 清點附件

此款主板所包含之附件如下：

- 主機板一片
- 使用手冊一本

- 排線：硬碟排線X1,軟碟排線 X1,COM1 & COM2, 排線附鐵片 X1,LPT & PS/2 排線附鐵片 X1
- 驅動程式 CD 一片

由於主機板對於靜電的感應非常靈敏，在裝卸主機板時應該在一個接地而防靜電的墊子上進行。

2-2 主機板佈局圖(請參閱第3頁)

2.3 選擇器,連接器和擴充槽的快速查詢

選擇器*(Jumpers)*

Jumper	Name	Description	Page
JP17	清除 CMOS RAM	1-2 正常 , 2-3 清除 CMOS	p.25
JP19	FLASH ROM 電壓設定	1-2 12V 的 FLASH ROM,2-3 5V 的 FLASH ROM	p.5
JP15	CPU 電壓調整	詳見第 頁	p.24
SW1	CPU 種類指撥開關	詳見第 頁	p.24
JP1、JP2、JP10	內建的 VGA 功能選擇	詳見第 頁	p.8

連接器(Connectors)

Connector	Name	Description	Page
J4	鍵盤連接頭	5-Pins Female	p.11
USB1	USB 埠連接頭	10-Pins Block	p.14
JP1	PS/2 滑鼠連接頭	6-Pins Block	p.11
COMA,COMB	串列埠連接頭	10-Pins Block	p.12
LPT1	印表機連埠接頭	26-Pins Block	p.11
FDD1	軟碟連接頭	34-Pins Block	p.12
IDE1	第一組 IDE 連接頭	40-Pins Block	p.12
IDE2	第二組 IDE 連接頭	40-Pins Block	p.13
J5	VGA 顯示連接頭	16-Pins Block	p.15
J9	CPU 風扇連接頭	1-2 12V Power Connector 2-3 ACPI FAN power control Connector	p.14
IR	遠紅外線模組連接頭	5-Pins Block	p.14
PW1	AT 電源供應器連接頭	12-Pins Block	p.10
PW2	ATX 電源供應器連接頭	20-Pins Block	p.10
FPC	前面板指示連接頭	16-Pins Block	p.13
HDLED	硬碟動作指示燈	4-Pins Connector	p.13
PS-ON	ATX 電源開關連接頭	4-Pins Connector	p.15
JP21	音訊連接頭	10-Pins Connector	p.15
JP22	搖桿埠連接頭	16-Pins Connector	p.15
J11	CD-Audio/Panasonic	4-Pins Block	p.16
J12	CD-Audio/Sony/IDE	4-Pins Block	p.16
JP23	SPDIF/Digtal CD Audio 連接頭	1-2 視訊輸出 2-3 視訊輸入	p.16

擴充插槽*(Expansion Sockets)*

Socket/Slot	Name	Description	Page
SL1~SL3	ISA 插槽	16-bits ISA Bus 擴充插槽	p.26
PCI 1~PCI 3	PCI 插槽	32-bits PCI Local Bus 擴充 插槽	p.26
SIMM1~SIMM2	72-Pins SIMM DRAM 插槽	72-Pins SIMM D-RAM 擴充插槽	p.26
SDRAM1, SDRAM2	168-Pins DIMM DRAM 插槽	168-Pins DIMM SDRAM 擴充插槽	p.26
ZIF SOCKET 7	CPU 插座	CPU 插座	p.26

2-4 安裝步驟

主機板的安裝步驟如下：

1. 主機板上的 Jumpers 依所使用的 CPU 設定在正確位置
2. 安裝 CPU和 D-RAM MODULE ,及所用之擴充介面卡
3. 連接排線、電源線接到指定的連接頭上
4. 設定BIOS值(一般由工廠出貨前即已設定,除了標準CMOS設定外不建議個人任意更改BCOS內的參數值)

2-5 Jumper 設定

1. CPU種類選擇：SW1 (6-PIN 指撥開關)

此款主機板用6-PINS 指撥開關選擇CPU的工作頻率而CPU工作頻率等於

CPU的外頻乘以CPU的倍頻

DIP Switch 1	DIP Switch 2	DIP Switch 3	CPU 外頻
ON	ON	ON	50MHz
ON	OFF	OFF	60MHz
OFF	OFF	OFF	66.6MHz
OFF	ON	ON	75MHz

DIP Switch 4	DIP Switch 5	DIP Switch 6	CPU 倍頻
OFF	OFF	OFF	1.5
ON	OFF	OFF	2.0
ON	ON	OFF	2.5
OFF	ON	OFF	3.0
OFF	OFF	OFF	3.5
ON	OFF	ON	4.0
ON	ON	ON	4.5

2. CPU 電壓選擇：JP15 (14-PIN CONNECTOR)

這個 Jumper 用於調整 CPU 的工作電壓，此款主板的設計可以自動偵測所使用的 CPU 為單電壓或雙電壓，所以僅需要調整 JP15 的 Jumper 即可。

圖表 JP15 CPU 電壓選擇 (O: open, S: short)

CPU TYPE	Voltage	1-2	3-4	5-6	7-8	Default
Intel Pentium single Voltage P54VRE AMD single Voltage K5 Cyrix/IBM single Voltage 6X86 IDT-C6 150/180/200	3.52V	S	S	S	S	
Intel Pentium single Voltage P54STD	3.45V	O	S	S	S	
AMD K6/MMX Dual Voltage K6-PR233	3.2V	O	O	S	S	
AMD K6/MMX Dual Voltage K6-PR166/200 Cyrix/IBM Dual Voltage (MX 166/200)	2.9V	S	O	O	S	
Cyrix/IBM Dual Voltage 6X86L $166^{+}/200^{+}$ Intel/MMX Dual Voltage (P55C,166/200/233)	2.8V	O	O	O	S	*
AMD-K6 Dual Voltage AMD-K6/266/300	2.2V	O	S	O	O	

CPU Type	SW1						CPU外頻 Frequency	Clock CPU 倍頻
	1	2	3	4	5	6		
75MHz Pentium processor AMD K5-75MHz	ON	ON	ON	OFF	OFF	OFF	50MHz	1.5x
Cyrix/IBM 6X86-120+	ON	ON	ON	ON	OFF	OFF	50MHz	2x
C6-150MHz	ON	ON	ON	OFF	ON	OFF	50MHz	3x
90MHz Pentium processor AMD K5-90	ON	OFF	OFF	OFF	OFF	OFF	60MHz	1.5x
120MHz Pentium processor Cyrix/IBM 6X86-150+	ON	OFF	OFF	ON	OFF	OFF	60MHz	2x
AMD K5-100 AMD K5-133 100MHz Pentium processor	OFF	OFF	OFF	OFF	OFF	OFF	66MHz	1.5x

150MHz Pentium processor Cyrix 6x86MX-166	ON	OFF	OFF	ON	ON	OFF	60MHz	2.5x
IDT-C6 180MHz	ON	OFF	OFF	OFF	ON	OFF	60MHz	3x
133MHz Pentium processor Cyrix/IBM 6X86-166+	OFF	OFF	OFF	ON	OFF	OFF	66MHz	2x
166MHz Pentium processor 166MHz Pentium processor with MMX technology AMD K5-166 AMD K6-166	OFF	OFF	OFF	ON	ON	OFF	66MHz	2.5x
200MHz Pentium processor 200MHz Pentium processor with MMX technology Cyrix 6X86MX-233 AMD K6-200 IDT-C6 200MHz	OFF	OFF	OFF	OFF	ON	OFF	66MHz	3x
233MHz Pentium processor with MMX technology AMD K6-233	OFF	OFF	OFF	OFF	OFF	OFF	66MHz	3.5x
AMD K6-266 AMD K6-2/266	OFF	OFF	OFF	ON	OFF	ON	66MHz	4x
AMD K6-300	OFF	OFF	OFF	ON	ON	ON	66MHz	4.5x

＊ 注意事項:1.在安裝CPU前, 請確認CPU的外頻.倍頻及工作電壓。

2.針對CYRIX,IBM及AMD CPU由於同樣頻率的CPU有不同的外頻及倍頻設定,請仔細看清楚否則將造成電腦不正常運作。

3. 75MHz/83.3MHz 的 CPU外頻，因為不是一般正常規格，所以我們不建議使用該設定。

3. 清除 CMOS RAM：JP17 (黃色選擇器)

警告！ 在您設定此 *JUMPER* 前，電腦務必關機。

將選擇器於 JP17 Pin2- 3 短路，3~4 秒鐘後 CMOS RAM 中的資料將會清除 (例如：硬碟選擇、軟碟選擇、密碼設定值等)，再將 JP4 上選擇器重新設定在 1-2Pin。清除 CMOS RAM 動作之後，可用 BIOS SETUP 重新填入所需要資料。

Selections		**JP1**
Normal	1-2	(Default)
Clear CMOS	2-3	(momentarily)

2-6 系統記憶体 (動態記憶體)

此主機板有 2 個72-Pins SIMM 插座及2 個 168-Pins DIMM插座。而SIMM及DIMM可同時使用裝置D-RAM配置圖如下表:

JP11 為 2-3 短路 JP12 為 2-3 短路	JP11 為 1-2 短路 JP12 為 1-2 短路	SDRAM1 BANK 0	SDRAM2 BANK1	系統可否接受
SIMM1，SIMM2 BANK 0	SIMM1，SIMM2 BANK 2			
72-Pins FPM 或 EDO SIMM		X	X	可以
	72-Pins FPM 或 EDO SIMM	X	X	不可以
X	X	168Pins S-DRAM DIMM	X	可以
X	X	X	168Pins S-DRAM DIMM	不可以
72-Pins FPM 或 EDO SIMM		168Pins S-DRAM DIMM	X	不可以

72-Pins FPM 或 EDO SIMM		X	168Pins S-DRAM DIMM	可以
72-Pins FPM 或 EDO SIMM		168Pins S-DRAM DIMM	168Pins S-DRAM DIMM	不可以
	72-Pins FPM 或 EDO SIMM	168Pins S-DRAM DIMM	168Pins S-DRAM DIMM	可以
X	X	168Pins S-DRAM DIMM	168Pins S-DRAM DIMM	可以
X	72-Pins FPM 或 EDO SIMM	168Pins S-DRAM DIMM	X	可以

注意事項:

* 將 JP11 及 JP12 的 2-3 設為短路 (預設值)，為 BANK 0
* 因為記憶體分享的關係，系統在開機時需要使用 BANK 0

2-7 中央處理器 (CPU)

此主機板提供 1 個 321-Pins 的 ZIF Socket 7 插座，由於CPU 在運算時會發熱，所以必須要有適合的散熱風扇，以防止 CPU 過熱。

在安裝 CPU 前電源必須關閉，首先拉起 ZIF Socket 拉桿至 90° 左右位置，CPU 在裝入時，CPU 面上有一白色點，而且有一斜角處對準 ZIF Socket 拉桿末端的一邊，在放入 CPU 時應該不會有任何阻力，放入後應完全平貼於 ZIF Socket 上，若有任何阻力或無法完全平貼現象，請拿出重新校對方向是否正確。最後將 ZIF Socket 的拉桿壓下即完成安裝。請參閱第12頁的圖示。

2-8 安裝介面卡

首先請仔細研讀介面卡相關說明書，安裝步驟概分如下：

1. 研讀所要安裝介面說明書
2. 設定介面卡上的 Jumper
3. 開啟電腦上蓋
4. 拆卸要安裝擴充槽後方的鐵片
5. 小心的對準該擴充槽，同時依垂直的方向將介面卡插入擴充槽
6. 鎖緊該介面卡鐵片螺絲
7. 蓋上電腦上蓋
8. 開啟電源，若有需要在 BIOS 中作設定
9. 安裝介面卡驅動軟体

2-9 各種連接頭

1. 電源連接頭：AT 電源連接頭 (12-Pins block)：PW1

此連接頭與 AT 電源供應器的輸出 (P8 and P9) 12-Pin 母頭連接，提供系統所需要的電源。(請參閱第 23 頁的圖表)

2. 電源連接頭：ATX 電源連接頭 (20-Pins block)：PW2

此款主板同時提供另一電源輸入連接頭，即為 ATX 電源連接頭，ATX-PW 連接頭為 20-Pin 之母座。(請參閱第 23 頁的圖表)

3. 鍵盤連接頭：(5-Pins 母座)：J4

用於 IBM 標準鍵盤之輸入連接頭。(請參閱第 23 頁的圖表)

4. PS/2 滑鼠連接頭：(6-Pins block)：J1

此款主板另提供一個 PS/2 滑鼠的連接頭。(請參閱第 23 頁的圖表)

5. 列表機埠連接頭：(26-Pins block)：LPT1 (請參閱第 23頁的圖表)

6. 串列埠 COMA&COMB 連接頭 :(Two 10-Pins block) ： COMA, COMB (請參閱第 23 頁的圖表)

7. 軟碟連接頭：(34-Pins block)：FDD (請參閱第23 頁的圖表)

8. 第一組 IDE 連接頭：(40-Pins block)：IDE1 (請參閱第 23 頁的圖表)

9. 第二組 IDE 連接頭：(40-Pins block)：IDE2 (請參閱第 23 頁的圖表)

10. 硬碟動作指示燈：HDLED(J21 1&3)

連接至電腦面板指示燈，當硬碟有讀寫動作時此指示燈會亮(請參閱第 23 頁的圖表)

11. 面板指示連接頭：FPC

此 16-Pins 的連接頭連接至面板各指示燈及開關等等。(請參閱第 23 頁的圖表)

A. Turbo LED: TBLED
B. RESET Switch lead: RESET
C. Keyboard Lock Switch lead & Power LED: KEYLOCK & PW
D. Speaker connector: SPEAKER

12. 遠紅外線模組連接頭：IR

此連接頭用於連接遠紅外線模組 (選購配備)，作為無線傳輸及接收之用。(請參閱第 23 頁的圖表)

13. USB埠連接頭：USB1 (請參閱第 23頁的圖表)

14. CPU風扇連接頭：J9 (請參閱第 23 頁的圖表)

15. ATX 電源開關連接頭：PS-ON

ATX 電源供應器提供 2-Pins 開關，其狀態分為三種：OFF、O。當電源為 OFF 狀態下按下此開關，即刻開啟電源至 ON 狀態。若在 ON 狀態將此開關按下，可依BIOS中設定利即關閉電源或4SEC後關閉電源。至於系統供電狀態可由 Power LED 的明滅判別出。(請參閱第 18 頁的圖表)

16. VGA 連接頭 ： J5 (請參閱第 23 頁的圖表)

17. 音訊連接頭 ： JP21 (請參閱第 23頁的圖示)

18. 搖桿埠連接頭 ：JP22 (請參閱第 23 頁的圖表)

19. 光碟機視訊連接頭 ：J11&J12 (請參閱第 23頁的圖表)

20. SPDIF Sony/PHILIPS 數位介面輸出及輸入連接頭：JP23 (請參閱第 23 頁的圖表)

第三章

軟体安裝

3.1 顯示卡驅動程式快速安裝

以下所有安裝步驟 ，我們皆假設您的光碟機設定是 ”D ：”

Windows 3.1X驅動程式快速安裝

步驟 1：啟動 Windows ,更改目錄路徑到 D:\5598\VGA\WIN31，再執行 “SETUP.EXE”。請依據螢幕上的指示完成安裝過程。

步驟 2：您可從 “SiS Multimedia V1.04” 的視窗內 ，更改顯示解析度、字型大小和顯示器種類。

Windows 95 驅動程式快速安裝

步驟 1：從 Windows 95 開機後 ，依序在 “My Computer” 的圖示、”Control Panel” 的圖示和 “Display” 的圖示上雙按滑鼠的左鍵。

步驟 2：當出現 “Display Properties” 視窗時 ，選擇 “Setting” 選鈕 ， 再選擇 “Change Display Type” (如果您是 Windows 95 OSR2 的使用者 ， 請選擇 “Advanced Properties”)。
步驟 3：選按 “Adapter Device” ， 再選按 “Change” 。
步驟 4：在出現 “Select Device” 的視窗時 ， 選按 “Have Disk”， 再將 “A：” 的目錄路徑更改至 “D:\5598\VGA\WIN95” ， 然後選按 “OK” 。
步驟 5：當再次出現 “Select Device” 的視窗時 ， 選按 “OK”。
步驟 6：當再次出現 “Change Display Type” 的視窗時 ， 選按 “Close”。
步驟 7：當再次出現 “Display Properties” 的視窗時 ， 選按 “Close”。
步驟 8：Windows 95 會自動重新開機。
步驟 9：您可以重覆步驟 1 和步驟 2 ， 更改顯示解析度、字型大小和顯示器種類。

Windows NT4.0 驅動程式快速安裝

步驟 1：從 Windows NT4.0 開機後 ，依序在 “My Computer” 的圖示、”Control Panel” 的圖示和 “Display” 的圖示上雙按滑鼠的左鍵。
步驟 2：當出現 “Display Properties” 視窗時 ，選擇 “Setting” 選鈕 ， 再選擇 “Change Type” 。
步驟 3：當出現 “Display Type” 的視窗時，選按 “Change” 。
步驟 4：在出現 “Change Display” 的視窗時 ， 選按 “Have Disk”， 再將 “A：” 的目錄路徑更 改至 “D:\5598\VGA\WINNT40” ， 然後選按 “OK” 。
步驟 5：當再次出現 “Display Type” 的視窗時 ， 選按 “Close”。
步驟 6：當再次出現 “Display Properties” 的視窗時 ， 選按 “Close”。
步驟 7：Windows NT4.0 會自動重新開機。
步驟 8：當出現 “Display Properties” 的視窗時 ， 設定您的顯示解析度後 ， 選按 “Test” ， 再選按 “OK” ， 即可完成安裝。

Windows NT3.5X 驅動程式快速安裝

步驟 1：從 Windows NT3.5X 開機後 ，執行 “COPY D:\5598\VGA\WINNT35*.* A：\” 的指令 ， 將該目錄的檔案拷貝至 A 磁碟機 。 在 “Main” 的圖示上雙按滑鼠的左鍵 ， 選按 ”Control Panel” 的圖示 ， 再選按和 “Display” 的圖示。
步驟 2：當出現 “Display Setting” 視窗時 ，選擇 “Change Display Type” 。
步驟 3：當出現 “Display Type” 的視窗時，選按 “Change” 。
步驟 4：在出現 “Select Device” 的視窗時 ， 選按 “Other”， 再將在步驟 1 拷貝好的磁碟片插入 A 槽 ， 然後選按 “Install” 。
步驟 5：當出現 “Install Device” 的視窗時 ， 選按 “Yes”。
步驟 6：當出現 “Windows NT setup” 的視窗時 ， 選按 “CONTINUES”。
步驟 7：Windows NT3.5X 自動重新開機後 ，即完成安裝。

MPFG XING 1.4 軟體的安裝

步驟 1：啟動 Windows 3.1X，更改目錄路徑到 D:\XING\XING140DM 。
步驟 2：執行 “setup.exe”,依據螢幕上的指示完成安裝過程後,即可選擇“XINGMPEG PLAER” 的圖示來播放 MPEG 檔案或 Video CD。

MPFG XING 3.02 軟體的安裝

步驟 1：啟動 Windows 95，更改目錄路徑到 D:\XING\XING302 。
步驟 2：執行 “setup.exe”,依據螢幕上的指示完成安裝過程後,即可從 “Start”、 ”Program” 中選擇 “XingMpeg play” 的圖示來播放 MPEG 檔案或 Video CD。

3.2 音效卡驅動程式快速安裝

Windows 95 OSR2 驅動程式安裝

步驟 1：安裝音效卡驅動程式以前 ，請先依序在 “My Computer” 的圖示、”Control Panel” 的圖示、 “System” 的圖示和 “Device Manager” 的圖示上雙按滑鼠的左鍵。
步驟 2：在 “Sound，Video and game controllers” 和 “Other device” 的項目中 ， 檢查是否已有別的音效裝置或 “!” 的記號 ， 若有的話 ， 請先將它們移除 。
步驟 3：在系統重新開機後 ， 從 “Control Panel” 中選擇 “Add new hardware” ， 將硬體加入 Windows 95 中。
步驟 4：在對話盒中選 “NO”，不要讓 Windows 尋找新的硬體 ， 在硬體種類中選擇 “Sound，Video and game controllers” 。
步驟5：依照螢幕上的步驟選擇 “Have Disk”、 “Browse” ， 將檔案夾更改至 D:\w95drv
步驟 6：選擇 “OK” ， 即可完成安裝程序 。
步驟 7：重新開機 。

Windows NT4.0 驅動程式安裝

步驟 1：依序在 “My Computer” 的圖示、”Control Panel” 的圖示和 “Multimedia” 的圖示上雙按滑鼠的左鍵。
步驟 2：從 “Review” 中選擇 “Add ” 的項目 ， 在 “Unlisted or Update Driver” 項目上雙按滑鼠的左鍵。
步驟 3：在 “Browse” 的項目上雙按滑鼠的左鍵， 將檔案夾更改至 D:\NT40DRV 。
步驟 4：選擇 “OK” ， 即可完成安裝程序 。
步驟 5：重新開機 。

DOS 驅動程式安裝

步驟 1：執行 D:\DOS-W31\INSTALL.EXE 。
步驟 2：請按照預設值安裝驅動程式 。
步驟 3：重新開機 。

Audio Rack 快速安裝

在 Windows 95 OSR2 或 Windows 98，執行 D:\W95-98AP 目錄下的 “setup” 程式。

Windows 98 驅動程式安裝

步驟 1：安裝音效卡驅動程式以前,請先依序在“My Computer” 的圖示、”Control Panel” 的圖示、“System” 的圖示和 “Device Manager” 的圖示上雙按滑鼠的左鍵。

步驟 2：在 “Sound，Video and game controllers” 和 “Other device” 的項目中 ， 檢查是否已有別的音效裝置或 “!” 的記號 ， 若有的話 ， 請先將它們移除 。

步驟 3： 從 “Control Panel” 中選擇 “Add new hardware” ， 再選 “Next” ， 此時會出現 “CMI8330 Audio Adapter” 的視窗 ， 選按 “Next”， 再選 “Display a list of all Drivers” ，然後選擇 “Sound，Video and game controllers” 的項目。

步驟 4：選擇 “Have Disk” 、 “Browse” ， 將檔案夾更改至 D:\W98DRV 。

步驟 5：選擇 “OK” ， 即可完成安裝程序 。

步驟 6：當 Windows 98 詢問 “Are all your drivers installed now” ， 請選 “YES”後 ，再選 按 “Next” 及 “Finish” 。

步驟 7：重新開機 。

Windows 3.1 驅動程式安裝

在 Windows 3.1的 “File Manager” 圖示 ，選擇執行 “D：\DOS-W31\WSETUP.EXE” ， 然後選擇 “Setup Program” 項目 ，再選安裝 “CMI8330 Audio Rack” 的圖示 。

搖桿的安裝

在 Winodws 95 OSR2 或 Windows 98 的作業系統中使用搖桿前， 請先在 “My Computer” 的圖示和 “Game controller” 的圖示上雙按滑鼠的左鍵 ， 然後選擇 “Properties” 項目中的 “Cailibrate” 做搖桿的設定。

第四章
常見問題及解決方法

問題 1 ：當使用外接式 VGA 顯示卡 ， 只在 SDRAM2 (BANK2) 使用 DIMM 時 ，系統 螢幕不會顯示。

解決方法 ：將 SDRAM2 的 DIMM ， 改插到 SDRAM1 即可。

問題 2 ：當使用 Ti 32MB DIMM 兩支時 ， 系統 螢幕不會顯示。

解決方法 ：請將在 BIOS CHIPSET FEATURES SETUP 中的 “SDRAM CAS Latency” 之 預設值從 “3T” 改成 “2T” 。 請依下列步驟更改其設定 ：

步驟 1：請先插一支 DIMM 讓系統開機 。

步驟 2：按 <DEL> 鍵，進入 CMOS SETUP UTILITY 。

步驟 3：選擇 “CHIPSET FEATURES SETUP” 。

步驟 4：將 “SDRAM CAS LATENCY” 的值改成 “2T” 。

步驟 5：儲存 CMOS ， 然後離開 。

步驟 6：將電源關掉 ， 將另一支 DIMM 插上 ， 重新啟動電腦 。

問題 3 ：在安裝 OS/2 REV:3 的版本時 ， 若使用 SCSI 的硬碟 ， 且將 IDE 的光碟機接在從屬位置(Slave) 模式時 ， 系統會當機 。

解決方法 ：請將 IDE 的光碟機改接在主屬位置 (Master) 模式 。

問題 4 ：在安裝 Windows 95 後 ， 當您在 Control Panel 中的 Device Manager 項目內之PCI Universal Serial Bus Device 看到有 “?” 的記號 。

解決方法 ：您可經由使用 Microsoft 的 “Microsoft Supplemental 3 for Windows 95” 來解決這個問題 。 因為 SiS 的 5598 晶片組屬於較新的產品 ， 所以 Windows 95 在 Supplemental 3 以後的公用程式才能辨識 SiS 5598 的 USB 裝置 。