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Chapter 1

1-1 Preface

Welcome to use the [J-598B](#) main board. This main board is based on Pentium processor PC/AT compatible system with ISA bus and PCI local bus. Also for this board including some special designs like **AGP Slot** , support **100MHz Bus frequency CPU (AMD-K6-2/300)**,and **SDRAM clock selectable** in 100MHz frequency, ACPI/APM power management & powerful performance and so on. We think you will enjoying your personal computer because of your right choice.

1-2 Key Feature

The [J-598B](#) is designed for the PC user who wants a great many features in a small package. This motherboard:

- **Support 100MHz Bus Frequency for AMD K6-2/300 .**
- **SDRAM Clock selectable in 100MHz Bus frequency let user more choice when use SDRAM.**
- **Easy Installation:** Is equipped with BIOS supports auto detection of hard drives and plug and play to make setup of hard drives and expansion cards virtually automatic.
- **Chipset:** VIA Apollo MVP3 AGP/PCI set chipset with I/O subsystems.
- **Multi-Speed Support:** Support one of 90~333MHz Intel Pentium® processor/ Intel Pentium® processor with MMX™ technology; AMD-K5™/AMD-K6™; Cyrix 6X86™/6X86MX™; IDT C6™ CPU on a ZIF Socket 7.
- **L2 Cache:** Provides on board 512K Pipelined Burst SRAM.
- **DRAM Memory Support:** Supports 2x72-pin SIMMs and 2x168-pin DIMMS (3.3V) of 4MB, 8MB, 16MB, 32MB, or 64MB to from a memory size between 8MB to 384MB. Support both Fast Page Mode and Extended Data Output (EDO) SIMMs. The [J-598B](#) also supports Synchronous DRAM module (DIMM).
- **ISA and PCI Expansion Slots:** Provides two 16-bit ISA slots, three 32-bit PCI slots.
- **AGP Slot:** Accelerated Graphic Port, for 533MB/sec data transfer rate and 66MHz Bus Clock to improve graphic functions.
- **Super Multi-I/O:** Provides two high-Speed UART compatible serial ports and one parallel port with EPP and ECP capabilities. UART2 can also be directed to the Infrared Module for wireless connections. Two floppy drives of either 5.25" or 3.5" (1.44MB or 2.88MB) are also supported without an external card.
- **PCI Bus Master IDE Controller and ULTRA DMA 33:** On-board PCI Bus Master IDE controller with two connectors that supports four IDE devices in two channels, provides faster data transfer rates, and supports Enhanced IDE devices such as Tape Backup, CD-ROM drives and LS-120. This controller also supports PIO Modes 3 and 4 and Bus Master IDE DMA 33Mbyte/Sec.
- **ACPI supporting for OS Directed Power Management**

Ring-in Wake up: When Ring-In the system can wake up from SMI Mode.

Ring-in Power On: When Ring-In the system can power on automatic by this function by use of ATX power supply.

RTC Power On: When use of ATX power supply and Enabled RTC Power On function, you can setting RTC alarm to power on the system at the time length you setting .

Power Button: Press the button will place the system power on/off when use ATX power supply .

Software off when use ATX power supply.

- **Power Support:** Efficient PWM switching power instead of traditional Linear Voltage Regulator to prevent power component from being burned-out.
- **PC 97 ready**
- **Optional IRDA and PS/2:** This motherboard supports an optional infrared port module for wireless interface and PS/2 mouse cable set.
- **Optional USB Port Connector:** This motherboard supports two USB port connectors for USB devices.
- **Free bundle Virus Buster software.**
- **Baby AT Form Factor:** Dimensions 22cm x 22cm.

Chapter 2

Installation

2-1 Motherboard Layout

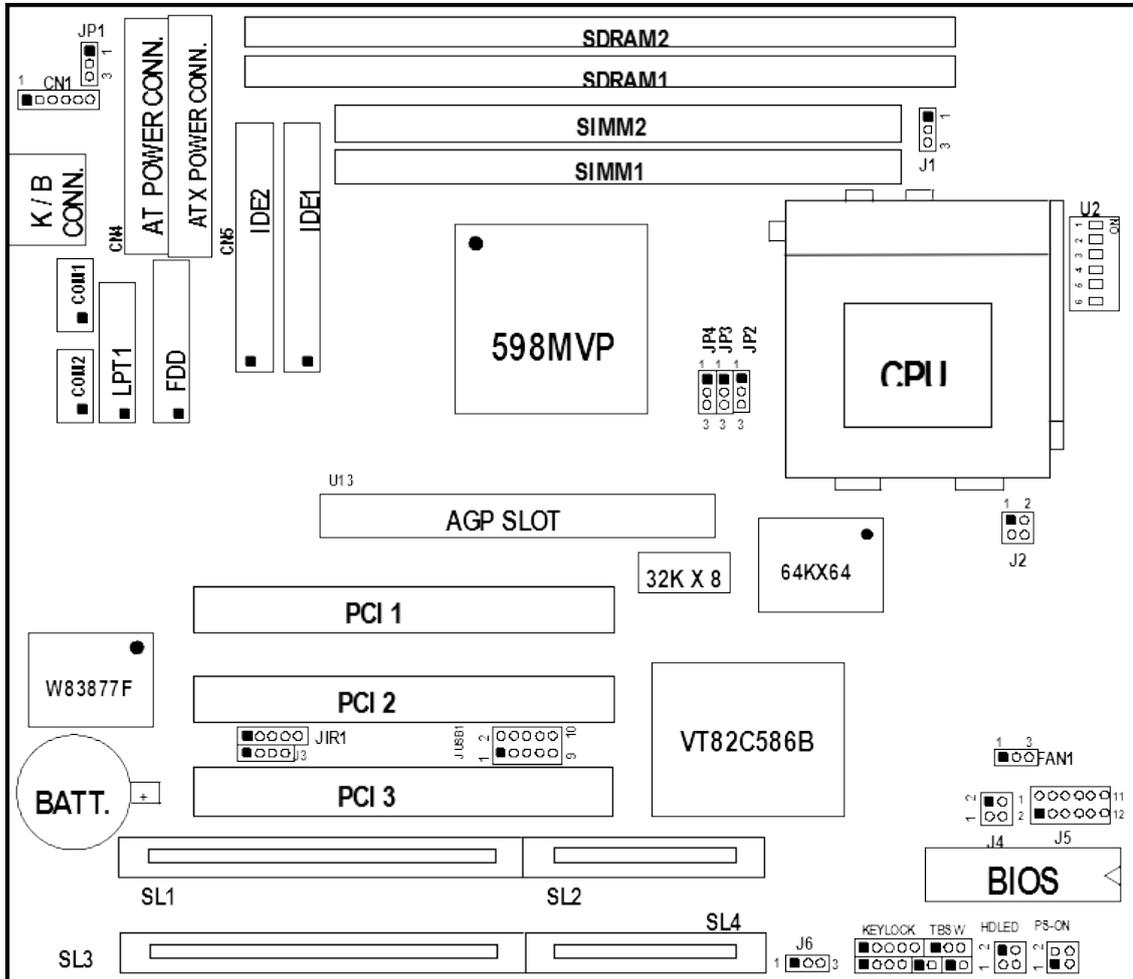


Figure 2-1

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

Jumpers

Jumper	Name	Description	Page
J5	CPU Voltage selector	for detail page 6	page 5
U2	DIP switch for CPU type selection	for detail page 6	page 5
J3	CMOS RAM Clear	2-3 Normal 3-4 Clear CMOS	page 7

Connectors

Connector	Name	Description	Page
CN3	Keyboard Connector	5-Pins Female	page 11
JUSB1	USB Port Connector	10-Pins Block	page 15
CN1	PS/2 Mouse Connector	6-Pins Block	page 11
COM1, COM2	Serial Port COMA & COMB	10-Pins Block	page 12
LPT1	Parallel Port Connector	26-Pins Block	page 12
FDD	Floppy Driver Connector	34-Pins Block	page 12
IDE1	Primary IDE Connector	40-Pins Block	page 13
IDE2	Secondary IDE Connector	40-Pins Block	page 13
FAN1	CPU FAN Connector	1-2 12V Power Connector 2-3 ACPI FAN power control Connector	page 15
JIR1	Infrared Module Connector	5-Pins Block	page 14
CN4	AT Power Connector	12-Pins Block	page 10
CN5	ATX Power Connector	20-Pins Block	page 11
FPC	Front Panel Connector	16-Pins Block	page 13
HDLED (J8)	IDE activity LED	2-Pins Connector	page 14
PS-ON (J9)	ATX power button/soft power button	2-Pins connector	page 15
J1/JP2	SDRAM CLOCK SELECTOR	J1/JP2 1-2 same as AGP J1/JP2 2-3 same as CPU	page 7
JP3/JP4	SYSTEM CLOCK SELECTOR	JP3 2-3 , JP4 X 60/66MHz JP3 1-2 , JP4 1-2 75/83MHz JP3 1-2 , JP4 2-3 95/100MHz	page 6

Expansion Sockets

Socket/Slot	Name	Description	Page
SL1, SL3	ISA Slot	16-bits ISA Bus Expansion slots	page 9
PCI1~PCI3	PCI Slot	32-bits PCI Local Bus Expansion slots	page 9
SIMM1~SIMM2	SIMM Module Socket	72-Pins SIMM D-RAM Module Expansion Socket	page 8
SDRAM1~SDRAM2	DIMM Module Socket	168-Pins DIMM SDRAM Module Expansion Socket	page 8
ZIF SOCKET 7	CPU Socket	Pentium CPU Socket	page 8

2-3 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
6. Setup the BIOS Software

2-4 Jumper Settings

1. CPU Voltage Selection: J5 (12-PinsBlock)

Selections	J5
2.2V	1-2 Closed
2.8V	3-4 Closed
2.9V	5-6 Closed
3.2V	7-8 Closed
3.45V	9-10 Closed
3.52V	11-12 Closed

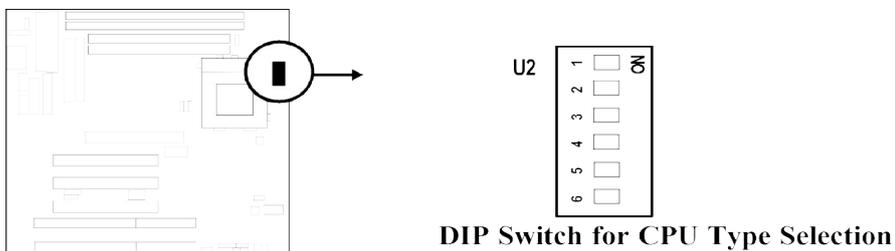
CPU Type	U2						JP3	JP4	Bus Clock	Clock Ratio
	1	2	3	4	5	6				
100MHz Pentium processor AMD-K5-100 , K5-133							2.2V	3.2V	66MHz	1.5X
233MHz Pentium processor with MMX technology	OFF	OFF	OFF	OFF	ON	ON	2.8V	3.45V		3.5X
120MHz Pentium processor Cyrrix/IBM 6X68-150 ⁺	ON	OFF	OFF	ON	ON	ON	2.9V	3.52V	60MHz	2.0X
133MHz Pentium processor Cyrrix/IBM 6X68-166 ⁺	ON	OFF	OFF	OFF	ON	ON	2-3	X	66MHz	2.0X
150MHz Pentium processor Cyrrix/IBM 6X68MX-PR166	ON	ON	OFF	ON	ON	ON	2-3	X	60MHz	2.5X
166MHz Pentium processor 166MHz Pentium processor with MMX technology	OFF	ON	OFF	1.5/3.5	ON	ON	2-3	ON	66MHz	2.5X
AMD-K5-166	OFF	ON	OFF	OFF	ON	ON	2-3	X	66MHz	2.5X
AMD-K6-166 Cyrrix/IBM 6X68MX-PR200	ON	OFF	OFF	2.0	OFF	ON	ON	ON	66MHz	
IDT-C6 150MHz	ON	OFF	OFF	2.5	ON	OFF	ON	ON	68MHz	
Cyrrix/IBM 6X68-200 ⁺ 6X68MX-PR200	ON	ON	OFF	OFF	3.0	ON	ON	1-2	75MHz	2.0X
IDT-C6 180MHz	OFF	OFF	ON	OFF	4.0	ON	ON	2-3	60MHz	3.0X
200MHz Pentium processor 200MHz Pentium processor with MMX technology	ON	ON	ON	OFF	4.5	ON	OFF	OFF	95MHz	
AMD-K6-200	OFF	ON	OFF	OFF	ON	ON	2-3	X	66MHz	3.0X
Cyrrix/IBM 6X68MX-PR233										
233MHz Pentium processor with MMX technology AMD-K6-233 AMD-K6/233 Cyrrix/IBM 6X68MX-PR300	OFF	OFF	OFF	OFF	ON	ON	2-3	X	66MHz	3.5X
AMD-K6/266 AMD-K6-2/266	ON	OFF	ON	OFF	ON	ON	2-3	X	66MHz	4.0X
AMD-K6/300	ON	ON	ON	OFF	ON	ON	2-3	X	66MHz	4.5X
AMD-K6-2/300	OFF	ON	OFF	OFF	OFF	OFF	1-2	2-3	100MHz	3.0X
AMD-K6-2/333	OFF	OFF	OFF	ON	OFF	OFF	1-2	2-3	95MHz	3.5X
Cyrrix 6X68MX-PR266	ON	ON	OFF	OFF	ON	OFF	1-2	1-2	83MHz	2.5X
Cyrrix 6X68MX-PR333	OFF	OFF	OFF	OFF	ON	OFF	1-2	1-2	83MHz	3.5X

2. CPU Type selection: U2 (6-Pins DIP Switch)

DIP Switch 1 DIP Switch 2 DIP Switch 3 Ratio DIP Switch 4 DIP Switch 5 DIP Switch 6 BUS Clock

DIP Switch 1	DIP Switch 2	DIP Switch 3	Ratio	DIP Switch 4	DIP Switch 5	DIP Switch 6	BUS Clock
OFF	ON	OFF	1.5/3.5	ON	ON	ON	60MHz
OFF	ON	ON	2.0	OFF	ON	ON	66MHz
ON	OFF	OFF	2.5	ON	OFF	ON	68MHz
ON	ON	OFF	3.0	ON	ON	1-2	75MHz
OFF	OFF	ON	4.0	ON	ON	2-3	83MHz
ON	ON	ON	4.5	ON	OFF	OFF	95MHz
OFF	ON	OFF	OFF	ON	ON	2-3	100MHz

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- 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.*

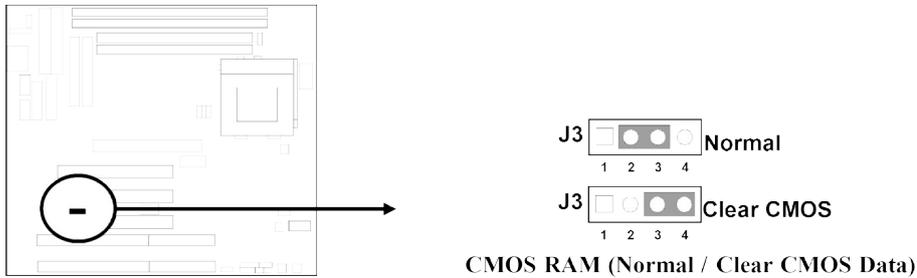


3. CMOS RAM: J3 (Yellow color selector)

This clears the user-entered information stored in the CMOS RAM chip such as hard disk information and passwords. Simply connect a jumper cap over this jumper for a few seconds then remove. But make sure that your computer is

power off. You must enter the BIOS setup (by holding down during power-up) after this is done to re-enter BIOS information (see BIOS SETUP)

Selections	J3	
Normal	2-3	(Default)
Clear CMOS	3-4	(momentarily)

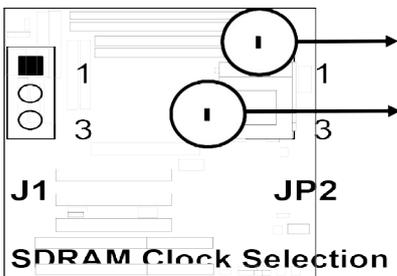


4. SDRAM CLOCK Selection: J1/JP2

These two connectors are setting for SDRAM CLOCK ,can let users have more choice of SDRAM type when Bus frequency over 75MHz.

J1	JP2	SDRAM CLOCK
1-2	1-2	same as AGP (60/66MHz)
2-3	2-3	same as CPU CLOCK (60/66/75/83/100MHz)

※ If your SDRAM Speed only 12ns and running in over 75MHz Bus frequency , You must setting J1 1-2 and JP2 1-2



2-5 System Memory (DRAM)

This motherboard supports two 72-pin SIMMs of 4MB, 8MB, 16MB, 32MB, or 64MB to from a memory size between 8MB to 128MB. The DRAM can be either 60ns or 70ns Fast Page Mode or EDO RAM. This motherboard also support three 168-pin DIMM Module, it can use only +3V unbuffer synchronous DRAM. The Max. memory size is 384MB when use DIMM Module.

The system can use any Bank of Memory to booting.

BANK0	BANK1	BANK2	Total Memory
SDRAM2	SDRAM1	SIMM1&SIMM2	
8MB	8MB	8MB	7
}			

16MB		16MB		16MB		
32MB	X1	32MB	X1	32MB	X1	MAX. = 384MB
64MB		64MB		64MB		
128MB		128MB		128MB		

※ We don't recommend use SIMM Module with DIMM combination ,when Bus frequency over 66MHz.

※ The system doesn't support Fast Page/EDO DRAM when Bus frequency over 75MHz.

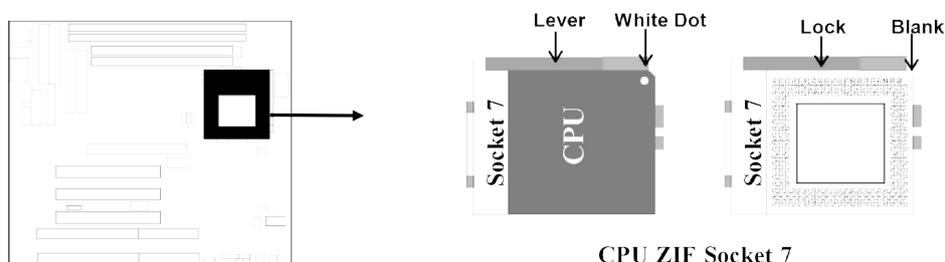
2-6 Central Processing Unit (CPU)

The motherboard 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 overheat 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 jumper U2 "DIP Switch for CPU Type Selection" and jumper J5 "CPU Voltage Selection" on [page5](#), [page6](#) depending on the CPU that you install.



2-7 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.

Assigning IRQs for Expansion Cards

Some expansion cards may require an IRQ to operate. Generally an IRQ must be exclusively assigned to only one device. In a standard design there are 16 IRQs available but most of them are occupied by the system and leaves 6 free for expansion cards.

Either ISA or PCI expansion cards may require an IRQs. System IRQs are available to cards installed in the ISA expansion first, and any remaining IRQs can be used by PCI cards. Currently, there are two types of ISA cards. An original ISA expansion card design, known as "Legacy" ISA cards, they request configuration of the card's jumpers manually and then install it in any available slot on the ISA bus, and others known as Plug and Play. You may use Microsoft's Diagnostic (MSD.EXE) utility included in the DOS directory to see a map of your used and any free IRQs. For Windows 95 users, the "Control Panel" icon in "My Computer", contains a "System" icon which gives you "Device Manager" tab. Double clicking on a specific device gives you "Resources" tab which shows the Interrupt number and address. Make sure that no two devices use the same IRQs, or your computer will experience problems when those two devices are in use at the same time.

To simplify this process the motherboard has complied with the Plug and Play (PNP) specification which was developed to allow automatic system configuration whenever a PNP-compliant card is added to the system. For PNP cards, IRQs are assigned automatically from those available.

If the system has both Legacy and PNP ISA cards installed, IRQs are assigned to PNP cards from those not used by Legacy cards. The PCI and PNP configuration of the BIOS setup utility can be used to indicate which IRQs are being used by Legacy cards. For older Legacy cards that do not work with the BIOS, you can contact your vendor for an ISA Configuration Utility.

An IRQ number is automatically assigned to PCI expansion cards after those used by Legacy and PNP ISA cards. In the PCI bus design, the BIOS automatically assigns an IRQ to a PCI. To install a PCI card, you need to set something called the INT (interrupt) assignment. Since all the PCI slots on this motherboard use an INTA #, be sure that the jumpers on your PCI cards are set to INT A.

Assigning DMA Channels for ISA Cards

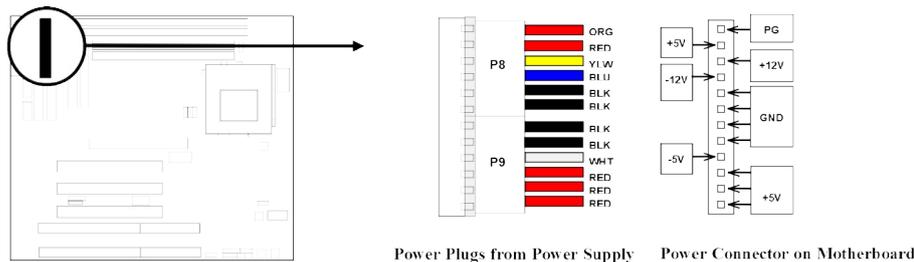
Some ISA cards, both Legacy and PNP may also need to use a DMA (Direct Memory Access) channel. DMA assignments for this motherboard are handled the same way as the IRQ assignment process described above. You can select a DMA channel in the PCI and PNP configuration section of the BIOS Setup utility. In the BIOS setup, you should choose “Yes” for those IRQ’s and DMA’s you wish to reserve for Legacy cards.

2-8 External Connectors

1-2 Power connector: AT Power Connector (12-pins block): CN4

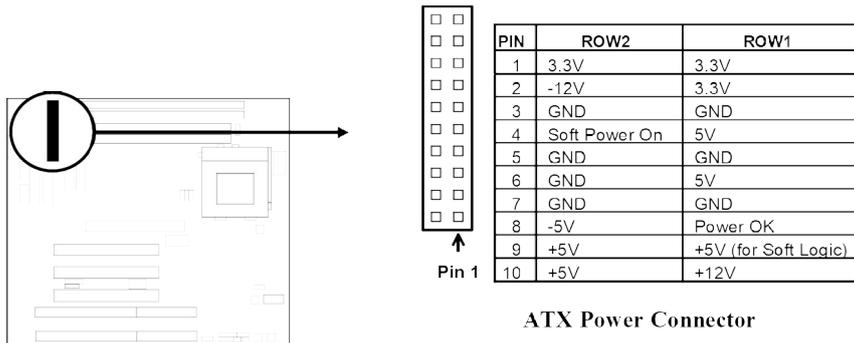
This connector connects to a standard 5 Volt power supply. To connect the leads from the power supply, ensure first that the power supply is not plugged. Most power supplies provide two plugs (P8 and P9), each containing six wires, two of which are black. Orient the connectors so that the black wires 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.



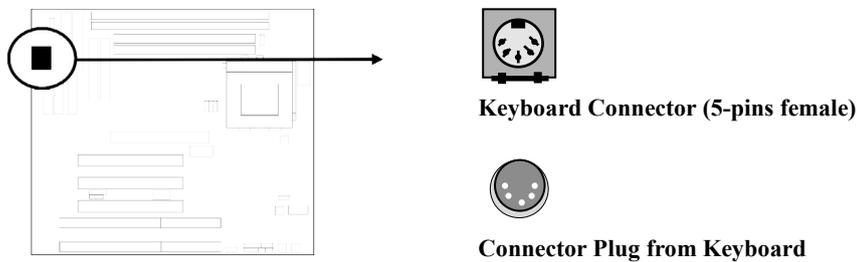
2. Power Connector: ATX Power Connector (20-pins block): CN5

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.



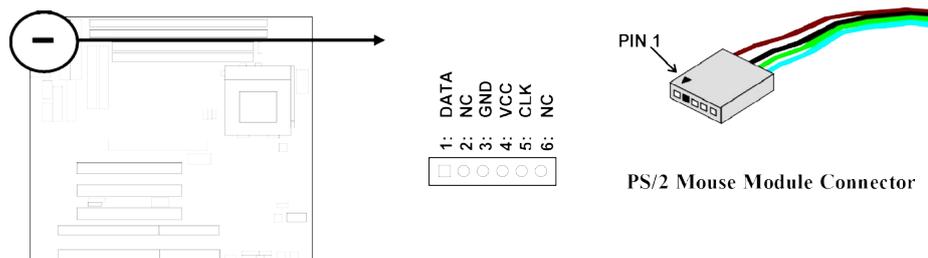
3. Keyboard Connector (5-pins female): CN3

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



4. PS/2 Mouse Connector (6-pins block): CN1

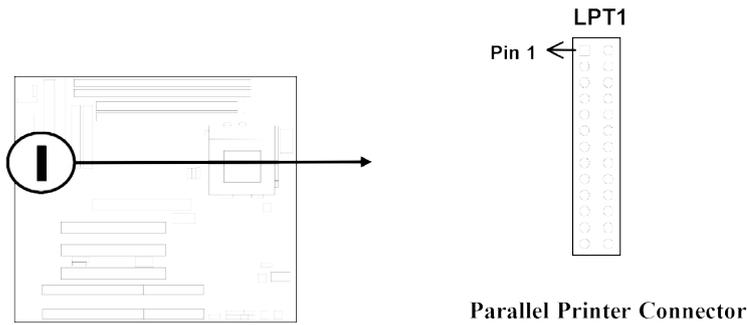
If you are using a PS/2 mouse, you must purchase an optional PS/2 mouse set which connects to the 6-pins block and mounts to an open slot on your computer's case.



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

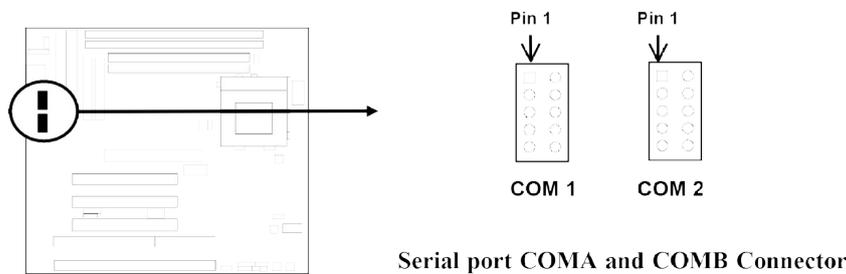
Connection for the included parallel port ribbon cable with mounting bracket. Connect the ribbon cable to this connection and mount the bracket to the case on an open slot. It will then be available for a parallel printer cable.

NOTE: *Serial printers must be connected to the serial port. You can enable the parallel port and choose the IRQ through BIOS Setup on in "Onboard Parallel Port".*



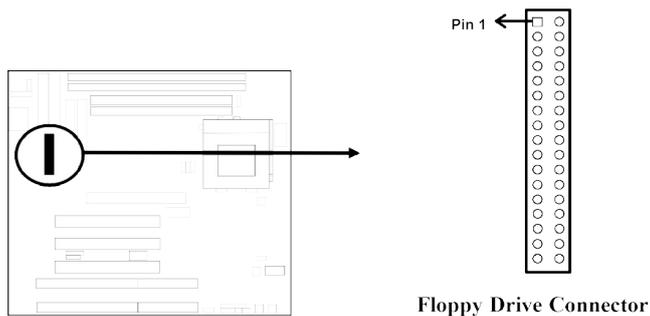
6. Serial port COMA and COMB Connector (Two 10-pins blocks): COM1, COM2

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 [page 32](#) for BIOS configuration of “Onboard Serial Port”



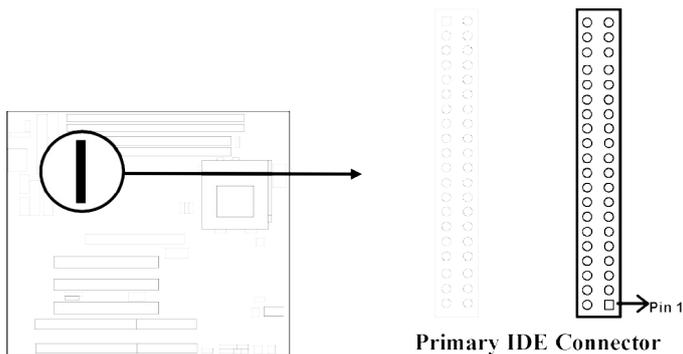
7. Floppy drive Connector (34-pins block): FDD

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.



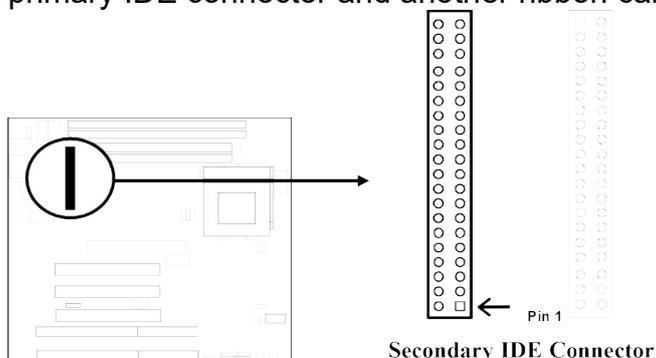
8. Primary IDE Connector (40-pins block): IDE1

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.



9. Secondary IDE Connector (40-pin 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.



10. 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 wish to connect the Power LED from the system case to this lead. See the figure on [page 14](#).

11. Reset switch lead: RST

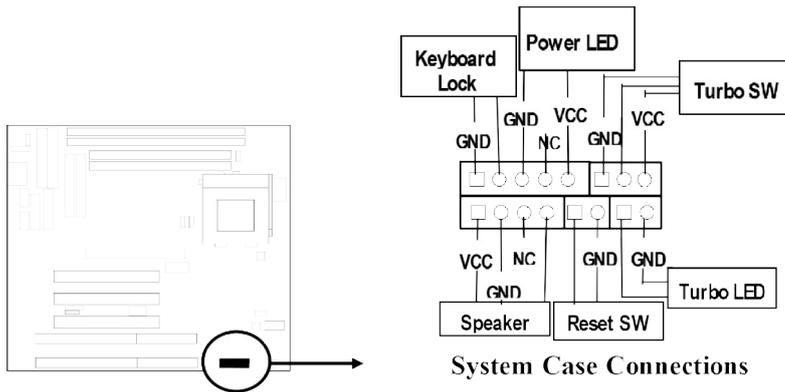
This 2-pin connector connects to the case-mounted reset switch for rebooting your computer without having to turn off your power switch. This is a preferred method of rebooting in order to prolong the life of the system's power supply. See the figure below.

12. Keyboard lock switch lead: KEYLOCK

This 5-pin connector connects to the case-mounted key switch for locking the keyboard for security purposes. See the figure below.

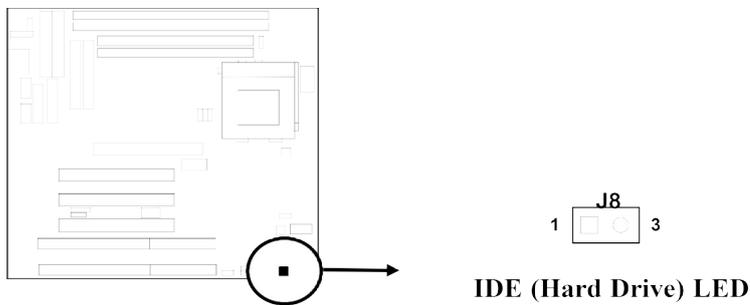
13. Speaker connector: SPEAKER

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



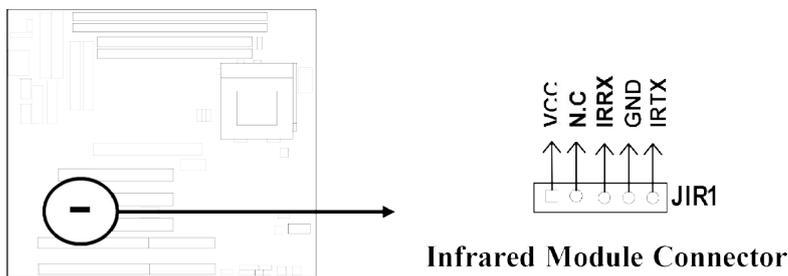
14. IDE activity LED: HDLED(J8 1&3)

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

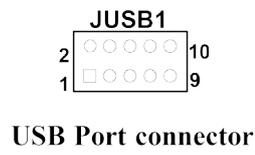
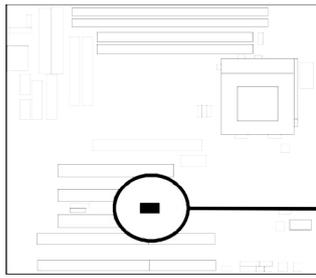


15. IR infrared module connector: JIR1

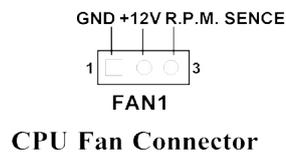
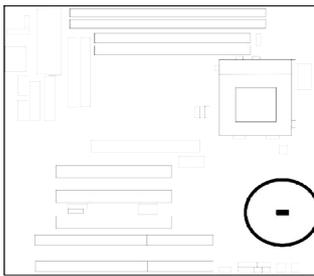
This connector supports the optional wireless transmitting and receiving infrared module. This module mounts to small opening on system cases that support this feature you must also configure the setting through BIOS setup. Use the four pins as shown on the Back View and connect a ribbon cable from the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



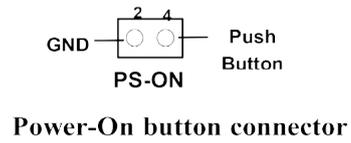
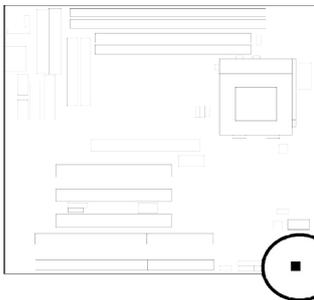
16. USB Port connector: JUSB1



17. CPU FAN connector: FAN1



18. Power-On button connector: PS-ON (J9 2&4)



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第一章 主機板簡介

1-1 前言

感謝您採用捷波 J-598B 主機板, 此款主機板雖然針對PENTIUM系列CPU設計, 但以其能夠支援100MHz外頻中央處理器,更提供了最新技術AGP介面插槽真可堪稱同類機種中的旗艦產品。

1-2 主要特性及功能

- 支援100MHz外頻中央處理器, 系統整體效能提高.
- 多種外頻的選擇,包括60/66/75/83/95/100MHz可支援的中央處理器有INTEL MMX™,AMDK5/K6/K6-2,IBM,CYRIX 6X86™/6X86MX™,IDT等,真可算SOCKET 7的終結產品.
- 系統時脈與SDRAM時脈非同步設計: 由於系統在100MHz下運行若採用SDRAM同步的設計,則可能造成SDRAM與主機板間相容的問題,所以在設計的考量上採用較彈性處理方式當系統在100MHz下運行可由JUMPER選擇同步或非同步避免不相容的問題,在效能與穩定性兩者皆顧.
- 系統晶片: VIA APOLLO MVP3 AGP/PCI CHIPSET.
- L2 快取記憶體: 提供512K 快取記憶體提高效能.
- D-RAM插座: 提供2X72PIN SIMM RAM 及2X168PIN DIMM SDRAM 插座,最大可擴充至384MB
- ISA&PCI插槽: 提供2個16-bit ISA 插槽,3個32-bit PCI插槽.
- I/O埠支援:提供兩個串列埠,一個並列埠及PS/2滑鼠接頭,同時也提供兩個軟碟接頭.另外更配備有一組遠紅外線(IR)插槽可連接遠紅外線模組.
- PCI BUS MASTER: 內建最新ULTRA DMA-33 MASTER IDE 控制器提供兩組連接頭,可支援4個IDE裝置,提高傳輸效率至33MB/sec.
- 提供作業系統直接電源管理功能(ACPI)
支援作業系統直接電源管理功能,充分符合WINDOWS 98 作業系統下電源管理的各項功能:
 - 利用輸入訊號,啟動切換電腦運行及開關:例如使用數據機來遙控電腦的啟動,切換電腦運行模式以達到省電及資料存取的功能.
 - RTC啟動:
利用CMOS RAM可設定電腦的啟動或提出警示.
 - 各種電源模式的管理: 例如.關閉,開啟及省電模式(SUSPED MODE)開啟等.
- 提供電腦防毒程式: 在所附的CD中有VIRUS BUSTER防毒程式免費提供.

第二章 硬體安裝

2-1 清點附件

此款主機板包含下列附件:

- J-598B 一片
- 主機板使用冊

- 排線: 硬碟排線x1, 軟碟排線x 1, COM1&COM2排線附鐵片x 1, LPT1&PS/2排線附鐵片x 1.
- 驅動程式 ,VIRUS BUSTER防毒程式: CD片X1

2-2 主機板佈局圖(請參閱第3頁)

2-3 選擇器,連接器,擴充槽快速查詢

選擇器 (Jumpers)

Jumper	Name	Description	Page
J5	CPU 電壓調整	請參照 page 6	page 19
U2	CPU 種類選擇指撥開關	請參照 page 6	page 19
J3	清除 CMOS RAM	2-3 正常 3-4 清除	page 20

連接器 (Connectors)

Connector	Name	Description	Page
CN3	鍵盤連接埠	5-Pins Female	page 22
JUSB1	USB 埠連接埠	10-Pins Block	page 22
CN1	PS/2 滑鼠連接埠	6-Pins Block	page 22
COM1, COM2	串列埠連接埠	10-Pins Block	page 22
LPT1	印表機埠連接埠	26-Pins Block	page 22
FDD	軟碟連接埠	34-Pins Block	page 22
IDE1	第一組 IDE 連接埠	40-Pins Block	page 22
IDE2	第二組 IDE 連接埠	40-Pins Block	page 22
FAN1	CPU 風扇連接埠	1-2 12V Power Connector 2-3 ACPI FAN power control Connector	page 22
JIR1	遠紅外線模組連接埠	5-Pins Block	page 22
CN4	AT 電源供應器連接埠	12-Pins Block	page 22
CN5	ATX 電源供應器連接埠	20-Pins Block	page 22
FPC	前面板指示燈連接埠	16-Pins Block	page 22
HDLED (J8)	硬碟指示燈	2-Pins Connector	page 22
PS-ON (J9)	ATX 電源開關連接埠	2-Pins connector	page 22
J1/JP2	SDRAM 時脈選擇	J1/JP2 1-2 與 AGP 時脈相同 J1/JP2 2-3 與 CPU 時脈相同	page 21
JP3/JP4	系統時脈選擇	JP3 2-3 , JP4 X 60/66MHz JP3 1-2 , JP4 1-2 75/83MHz JP3 1-2 , JP4 2-3 95/100MHz	page 20

擴充槽 (Expansion Sockets)

Socket/Slot	Name	Description	Page
SL1, SL3	ISA 插槽	16-bits ISA Bus 擴充插槽	page 9
PCI1~PCI3	PCI 插槽	32-bits PCI Local Bus 擴充插槽	page 9
SIMM1~SIMM2	SIMM Module 插座	72-Pins SIMM D-RAM Module 擴充插座	page 8
SDRAM1~SDRAM2	DIMM Module 插座	168-Pins DIMM SDRAM Module 擴充插座	page 8
ZIF SOCKET 7	CPU 插座	Pentium CPU 插座	page 8

2-4 硬體安裝設定

主機板的安裝步驟如下:

1. 主機板上的JUMPER依所使用的CPU正確的設定.
2. 安裝CPU和DRAM和所使用的擴充介面卡
3. 連接排線, 電源線接頭到指定的連接埠上.
4. 設定BIOS值(一般由工廠出貨前即已設定, 除了標準CMOS設定外不建議任意更改 BIOS 內的參數值)

2-4-1 CPU電壓選擇 : J5 (12 – PINS Block)

Selections	J5
2.2V	1-2 Closed
2.8V	3-4 Closed
2.9V	5-6 Closed
3.2V	7-8 Closed
3.45V	9-10 Closed
3.52V	11-12 Closed

2-4-2 CPU種類選擇 :U2 (6-Pins DIP Switch)

	DIP Switch 1		DIP Switch 2		Ratio		DIP Switch 3		DIP Switch 4		DIP Switch 5		DIP Switch 6		CPU 外頻	
	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	外頻	倍頻
100MHz Pentium processor AMD-K5-100, K5-133	ON	OFF	OFF	OFF	41.5/3.5	2.0	ON	ON	2-3	OFF	ON	ON	ON	66MHz	60MHz	60MHz
233MHz Pentium processor with MMX technology	ON	OFF	OFF	OFF	2.5	2.5	ON	ON	2-3	OFF	ON	ON	ON	66MHz	68MHz	68MHz
120MHz Pentium processor	ON	OFF	OFF	OFF	3.0	3.0	ON	ON	2-3	ON	ON	ON	OFF	75MHz	75MHz	75MHz
Cyrix/IBM 6X68-150 ⁺	ON	OFF	OFF	ON	4.0	4.0	ON	OFF	2-3	ON	ON	ON	OFF	60MHz	83MHz	2.0X
133MHz Pentium processor Cyrix/IBM 6X68-166 ⁺	ON	ON	OFF	OFF	4.5	4.5	ON	ON	2-3	OFF	ON	ON	OFF	60MHz	95MHz	95MHz
150MHz Pentium processor Cyrix/IBM 6X68MX-PR166	ON	ON	OFF	ON	ON	ON	ON	OFF	2-3	OFF	ON	ON	OFF	60MHz	100MHz	2.5X
166MHz Pentium processor 166MHz Pentium processor with MMX technology AMD-K5-166 AMD-K6-166 Cyrix/IBM 6X68MX-PR200	ON	ON	OFF	OFF	ON	ON	ON	ON	2-3	X	ON	ON	66MHz	66MHz	2.5X	2.5X
IDT-C6 150MHz Cyrix/IBM 6X68-200 ⁺ 6X68MX-PR200	ON	OFF	OFF	ON	ON	ON	OFF	ON	1-2	1-2	ON	ON	75MHz	75MHz	2.0X	2.0X
IDT-C6 180MHz	OFF	ON	OFF	ON	ON	ON	ON	ON	2-3	X	ON	ON	60MHz	60MHz	3.0X	3.0X
200MHz Pentium processor 200MHz Pentium processor with MMX technology AMD-K6-200 Cyrix/IBM 6X68MX-PR233	OFF	ON	OFF	OFF	ON	ON	ON	ON	2-3	X	ON	ON	66MHz	66MHz	3.0X	3.0X
233MHz Pentium processor with MMX technology AMD-K6-233 AMD-K6/233 Cyrix/IBM 6X68MX-PR300	OFF	OFF	OFF	OFF	ON	ON	ON	ON	2-3	X	ON	ON	66MHz	66MHz	3.5X	3.5X
AMD-K6/266 AMD-K6-2/266	ON	OFF	ON	OFF	ON	ON	ON	ON	2-3	X	ON	ON	66MHz	66MHz	4.0X	4.0X
AMD-K6/300	ON	ON	ON	OFF	ON	ON	ON	ON	2-3	X	ON	ON	66MHz	66MHz	4.5X	4.5X
AMD-K6-2/300	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	1-2	2-3	ON	ON	100MHz	100MHz	3.0X	3.0X
AMD-K6-2/333	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	1-2	2-3	ON	ON	95MHz	95MHz	3.5X	3.5X
Cyrix 6X68MX-PR266	ON	ON	OFF	OFF	ON	ON	OFF	OFF	1-2	1-2	ON	ON	83MHz	83MHz	2.5X	2.5X
Cyrix 6X68MX-PR333	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	1-2	1-2	ON	ON	83MHz	83MHz	3.5X	3.5X

- 注意事項：① 在安裝CPU前先確定CPU的外頻、倍頻及電壓。
 ② 在作各種選擇器的調整前請確定電源必須關閉。

2-4-3 清除 CMOS RAM :J3 (黃色選擇器)

在將選擇器在J3 3-4秒鐘後CMOS 的資料將會清除(例如:硬碟,軟碟密碼設定等)再將J3上選擇重新設定在2-3 pin. 清除CMOS RAM動作後可用BIOS SETUP重新填入所需資料.

2.4.4 SDRAM時脈選擇 :J1/JP2

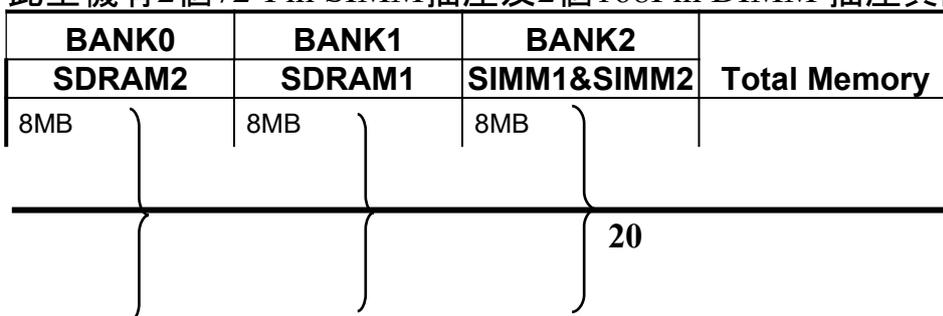
J1, JP2用選擇SDRAM 與系統時脈同步或非同步.

J1	JP2	SDRAM CLOCK
1-2	1-2	與AGP時脈相同,一般為66MHz,唯系統在75MHz時SDRAM為60MHz.
2-3	2-3	與系統時脈相同,視所選用的CPU內頻而定.

※ 注意事項:或使用的SDRAM DIMM 為12ns時當系統時脈到達75MHz時請將J1,JP2設定為1-2短路 .

2-5 系統記憶體安裝

此主機有2個72-Pin SIMM插座及2個168Pin DIMM 插座其配置圖如下:



16MB	16MB	16MB	
32MB X1	32MB X1	32MB X1	MAX. = 384MB
64MB	64MB	64MB	
128MB	128MB	128MB	

注意事項：

1. 當系統時脈高於66MHz時,SIMM和DIMM請勿同時使用.
2. 當系統時脈在75MHz時,無法使用FAST PAGE和EDO DRAM,也就是僅建議使用DIMM MODULE.

2-6 CPU的安裝

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8頁的圖示。

2-7 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. 安裝介面卡驅動軟體

2-8 各種連接埠

1. 電源連接埠AT 電源連接埠 (12-Pins block) : CN4

此連接埠與 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 10 頁的圖表)

2. 電源連接埠ATX 電源連接埠 (20-Pins block) : CN5

此款主板同時提供另一電源輸入連接埠,即為 ATX 電源連接埠,ATX-PW 連接埠為 20-Pin 之母座。(請參閱第11頁的圖表)

3. 鍵盤連接埠 (5-Pins 母座) : CN3

用於 IBM 標準鍵盤之輸入連接埠。(請參閱第 11 頁的圖表)

4. PS/2 滑鼠連接埠 (6-Pins block) : CN1

此款主板另提供一個 PS/2 滑鼠的連接埠。(請參閱第 11 頁的圖表)

5. 列表機埠連接埠 (26-Pins block) : LPT1 (請參閱第12頁的圖表)

6. 串列埠COMA&COMB連接埠(Two 10-Pins block):COM1,COM2 (請參閱第12頁的圖表)

7. 軟碟連接埠 (34-Pins block) : FDD (請參閱第12 頁的圖表)

8. 第一組 IDE 連接埠 (40-Pins block) : IDE1 (請參閱第13 頁的圖表)

9. 第二組 IDE 連接埠 (40-Pins block) : IDE2 (請參閱第13 頁的圖表)

10. 硬碟動作指示燈:HDLED(J8)

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14 頁的圖表)

11. 面板指示連接埠 : FPC

此 16-Pins 的連接埠連接至面板各指示燈及開關等等。(請參閱第14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. 遠紅外線模組連接埠 : JIR1

此連接埠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 14 頁的圖表)

13. USB埠連接埠 : JUSB1 (請參閱第 15頁的圖表)

14. CPU風扇連接埠 : FAN1 (請參閱第 15 頁的圖表)

15. ATX 電源開關連接埠 : J9

ATX 電源供應器提供 2-Pins 開關, 其狀態分為三種: 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中設定立即關閉電源或 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 15 頁的圖表)