

## 3 Jumpers and Connectors

### Setting the Jumpers

The table below summarizes the function and jumper settings of each jumper on the P5HX-B. You can refer to the next section for the graphic descriptions.

Function			Jumper Settings
CPU Type	Intel Pentium (P54C)	Pentium 75MHz (50MHz Host Clock)	JP2 short 1-2 JP3 short 1-2 JP4 short 1-2, 3-4 JP11 short 1-2 JP12 short 1-2 JP13 short 1-2 JP14 short 1-2
		Pentium 90MHz (60MHz Host Clock)	JP2 short 1-2 JP3 short 1-2 JP4 short 3-4 JP11 short 1-2 JP12 short 1-2 JP13 short 1-2 JP14 short 1-2
		Pentium 100MHz (66MHz Host Clock)	JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP11 short 1-2 JP12 short 1-2 JP13 short 1-2 JP14 short 1-2
		Pentium 120MHz (60MHz Host Clock)	JP2 short 1-2 JP3 short 2-3 JP4 short 3-4 JP11 short 1-2 JP12 short 1-2 JP13 short 1-2 JP14 short 1-2

Continued.....

Function			Jumper Settings	
CPU Type	Intel Pentium (P54C)	Pentium 133MHz (66MHz Host Clock)	JP2	short 1-2
			JP3	short 2-3
			JP4	short 1-2
			JP11	short 1-2
			JP12	short 1-2
			JP13	short 1-2
			JP14	short 1-2
		Pentium 150MHz (60MHz Host Clock)	JP2	short 2-3
			JP3	short 2-3
			JP4	short 3-4
			JP11	short 1-2
			JP12	short 1-2
			JP13	short 1-2
			JP14	short 1-2
		Pentium 166MHz (66MHz Host Clock)	JP2	short 2-3
			JP3	short 2-3
			JP4	short 1-2
			JP11	short 1-2
			JP12	short 1-2
			JP13	short 1-2
			JP14	short 1-2
		Pentium 200MHz (66MHz Host Clock)	JP2	short 2-3
			JP3	short 1-2
			JP4	short 1-2
			JP11	short 1-2
			JP12	short 1-2
			JP13	short 1-2
			JP14	short 1-2
	Cyrix( 6X86)	100MHz (50MHz Host Clock)	JP2	open
			JP3	short 2-3
			JP4	short 1-2, 3-4
			JP11	short 1-2
			JP12	short 1-2
			JP13	short 1-2
			JP14	short 1-2
		120MHz (60MHz Host Clock)	JP2	open
			JP3	short 2-3
			JP4	short 3-4
			JP11	short 1-2
			JP12	short 1-2
			JP13	short 1-2
			JP14	short 1-2

Continued.....

Function			Jumper Settings	
CPU Type	Cyrix (6X86)	133MHz (66MHz Host Clock)	JP2	open
			JP3	short 2-3
			JP4	short 1-2
			JP11	short 1-2
			JP12	short 1-2
			JP13	short 1-2
			JP14	short 1-2
CPU Voltage Selection	Intel Pentium P55C (CPU Core Voltage: +2.5V)		JP11	short 2-3
			JP12	short 2-3
			JP13	short 2-3
			JP14	short 2-3
CPU Voltage Selection	3.3V (STD)		JP10	short 1-2
	3.52V (VRE) (default)		JP10	short 3-4
CMOS RAM Clear Switch	Normal		JP5	short 2-3
	CMOS Data Clear		JP5	short 1-2
On Board Cache	Exist		JP15	short
	Not Exist		JP15	open
L2 Cache Memory Size	256KB		JP16	short 1-2
	512KB		JP16	short 3-4
	No L2 Cache		JP16	open 1-2, 3-4
Flash ROM	Normal		JP6	short 2-3
			JP7	open
	BIOS Recover		JP6	short 1-2
			JP7	open
	PnP		JP6	open
			JP7	short 2-3
	Non PnP		JP6	open
			JP7	short 1-2

Table 3 -1. Jumper Settings



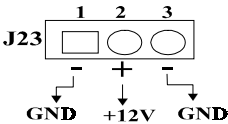
The table below presents the detailed Jumper Settings for different CPU Clock. For example, if Pentium 100MHz CPU is installed, you should set Host Clock as 66 MHz and CPU Core Clock as Host Clock \*1.5.

Function			Jumper Settings
Host Clock	50 MHz	JP4	short 1-2, 3-4
	55 MHz (Optional)	JP4	open 1-2, 3-4
	60 MHz	JP4	short 3-4 open 1-2
	66 MHz	JP4	short 1-2 open 3-4
CPU Core Clock	Pentium	Host Clock x 1.5	JP2 short 1-2 JP3 short 1-2
		Host Clock x 2	JP2 short 1-2 JP3 short 2-3
		Host Clock x 2.5	JP2 short 2-3 JP3 short 2-3
		Host Clock x 3	JP2 short 2-3 JP3 short 1-2
	Cyrix	Host Clock x 2	JP2 open JP3 short 2-3
		Host Clock x 3	JP2 open JP3 short 1-2

Green Function

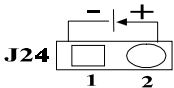
CPU Cooling Fan Control

P5HX-B provides the ability to turn the **CPU cooling fan** off while the system is in low-power suspend mode. Please connect the CPU cooling fan to J23 in order to make it work.

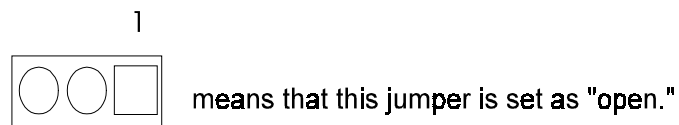
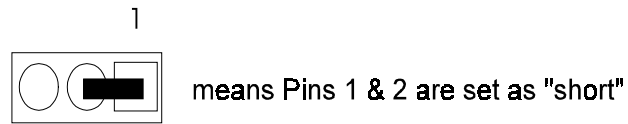


Green Function Indicator

Connect the **LED** to J24 to indicate the system in low-power suspend mode.

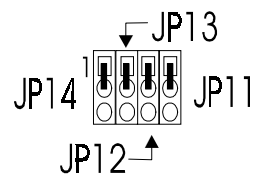
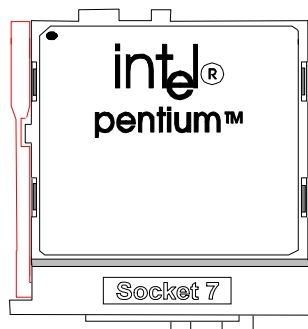
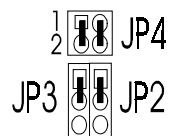


## Graphic Descriptions of Jumper Settings

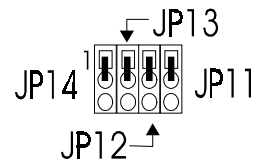
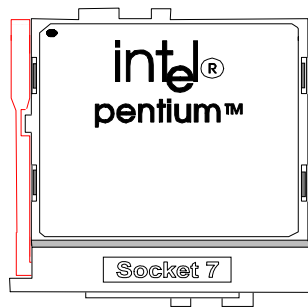
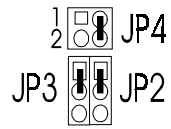


## CPU Type

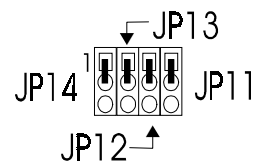
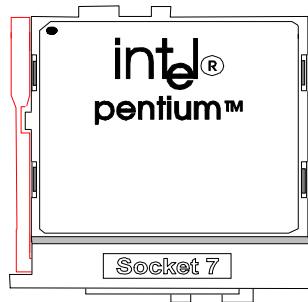
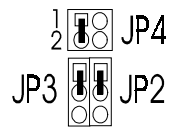
1. Intel Pentium 75MHz (P54C) CPU (50MHz Host Clock) installed on board



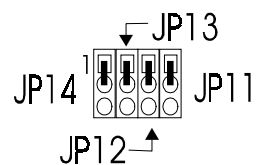
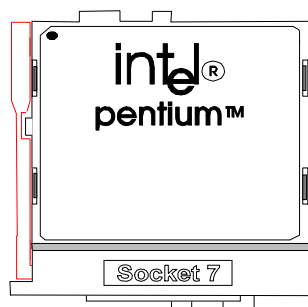
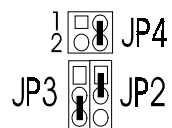
2. Intel Pentium 90MHz (P54C) CPU (60MHz Host Clock) installed on board



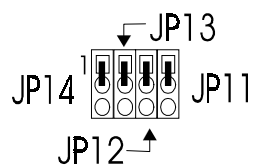
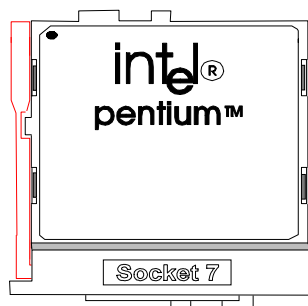
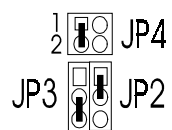
3. Intel Pentium 100MHz (P54C) CPU (66MHz Host Clock) installed on board



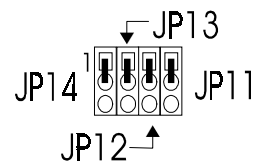
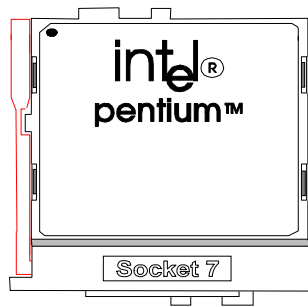
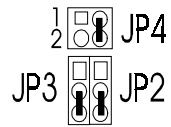
4. Intel Pentium 120MHz (P54C) CPU (60MHz Host Clock) installed on board



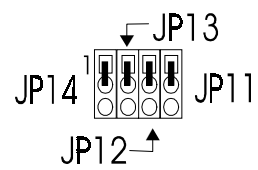
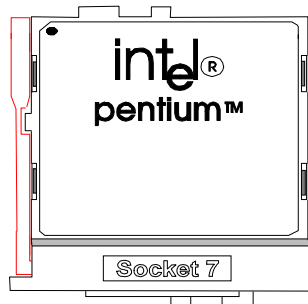
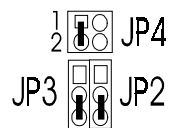
5. Intel Pentium 133MHz (P54C) CPU (66MHz Host Clock) installed on board



6. Intel Pentium 150MHz (P54C) CPU (60MHz Host Clock) installed on board

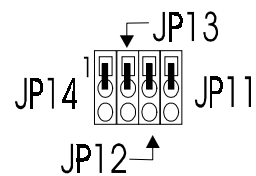
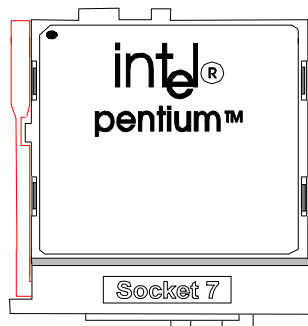
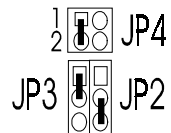


7. Intel Pentium 166MHz (P54C) CPU (66MHz Host Clock) installed on board

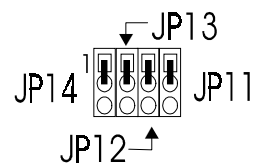
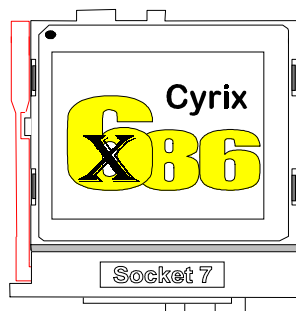
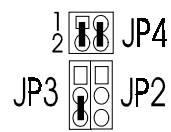




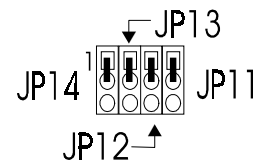
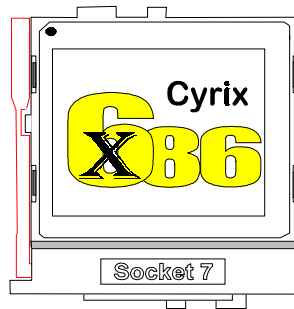
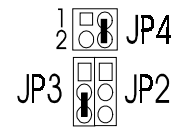
8. Intel Pentium 200MHz (P54C) CPU (66MHz Host Clock) installed on board



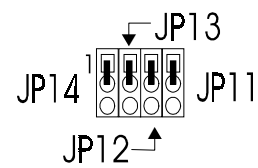
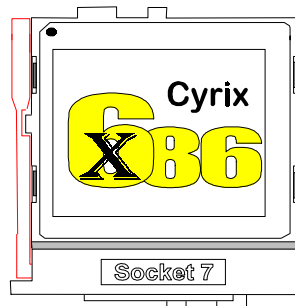
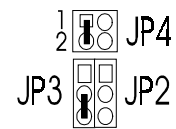
9. Cyrix 6X86 100MHz CPU (50MHz Host Clock) installed on board



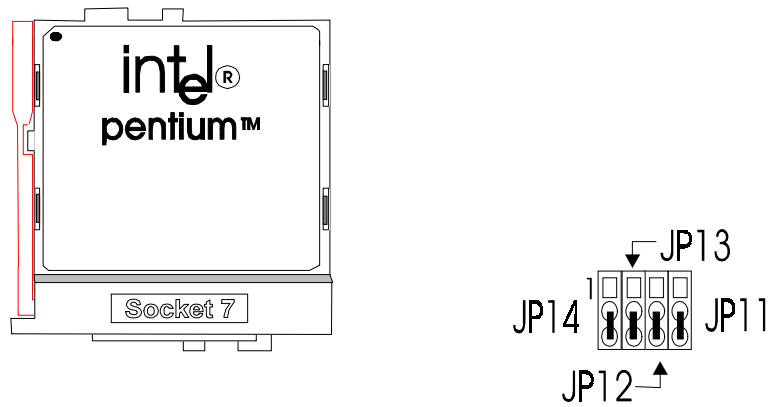
10. Cyrix 6X86 120MHz CPU (60MHz Host Clock) installed on board



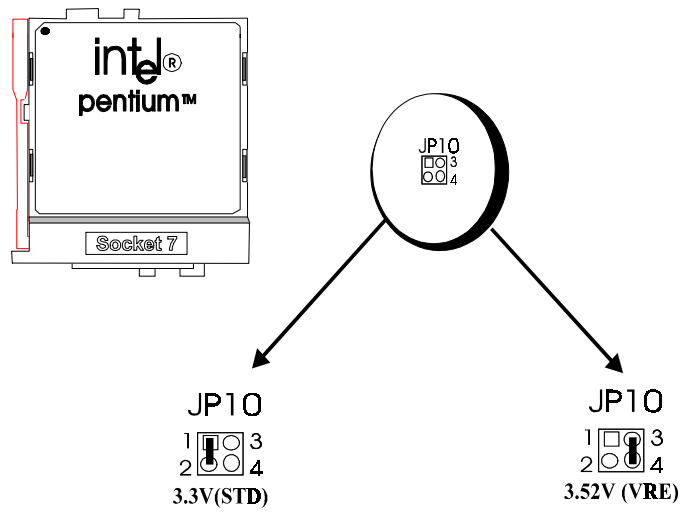
11. Cyrix 6X86 133MHz CPU (66MHz Host Clock) installed on board



12. Intel Pentium P55C CPU (CPU Core Voltage: +2.5V) installed on board



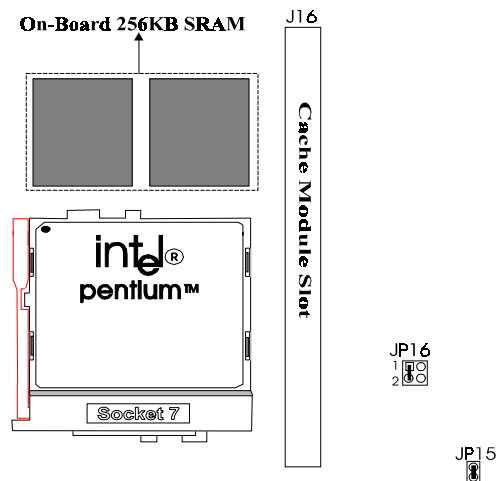
### CPU Voltage Selection



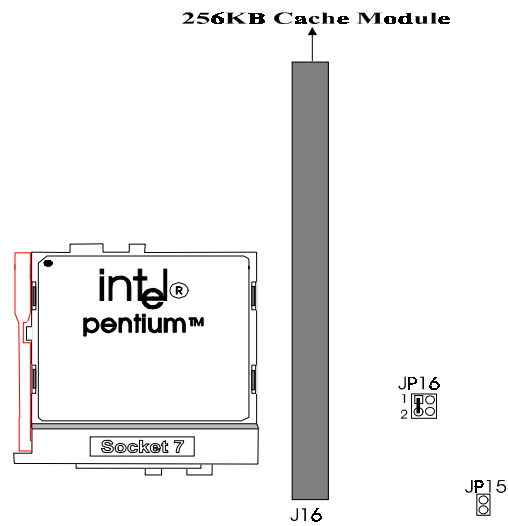
## Cache Memory Size

### 1. 256KB

#### a. On-Board Cache

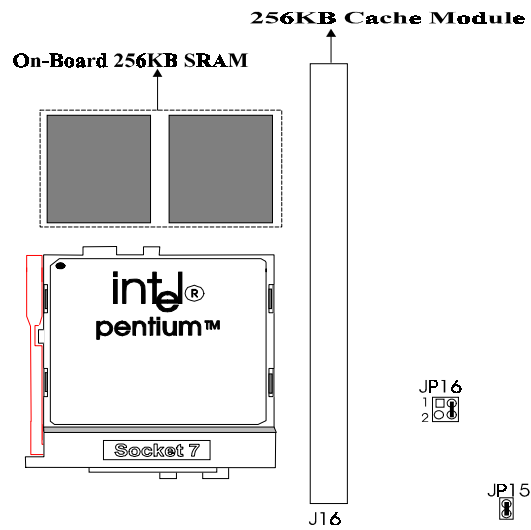


#### b. Cache Module Only

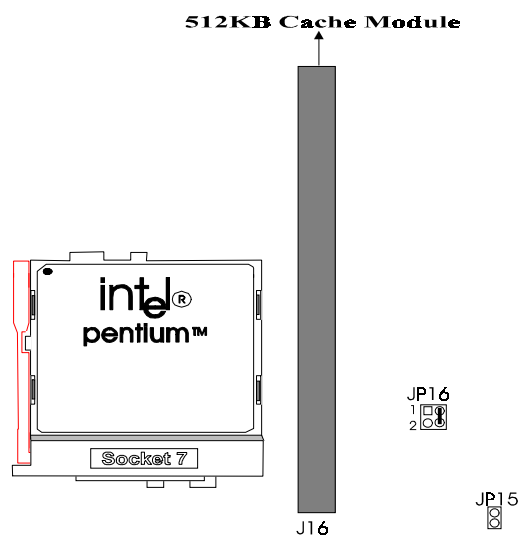


2. 512KB

a. On-Board Cache

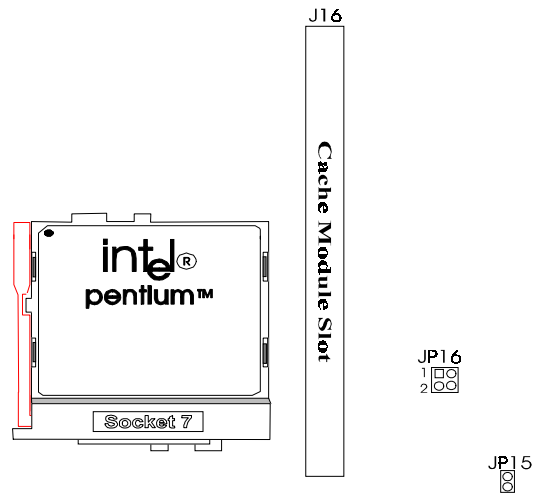


b. Cache Module Only



3. No L2 Cache

P5HX-B



## Connectors

There are several connectors located on the P5HX-B. Their function is listed below.

Connector	Function
J1	PS/2 Keyboard Connector
J2	AT Keyboard Connector
J3	PS/2 Mouse Connector
J4	COM1/ COM3
J5	COM2/ COM4
J6	Printer Port
J9	FDD Connector
J10	Primary IDE Connector
J11	Secondary IDE Connector
J12	<div> <div> Reset Switch </div> <div> Turbo Switch </div> <div> SMI Switch </div> <div> Turbo LED </div> </div> <div> X: No Function    I: Input    O: Output  G: GND            P: Power </div>
J13	HDD LED 
J16	Cache Module Connector
J17	USB Header
J19	IR Header (IBM)

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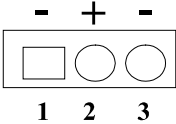
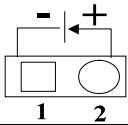
Connector	Function
J20	IR Header (Intel)
J21	PS/2 Mouse Header
J22	CPU Fan Connector ( Normal)
J23	CPU Fan Connector ( Green Function)
	
J24	Flash LED (Green Function)
	

Table 3 -2. Connectors



## Board Layout

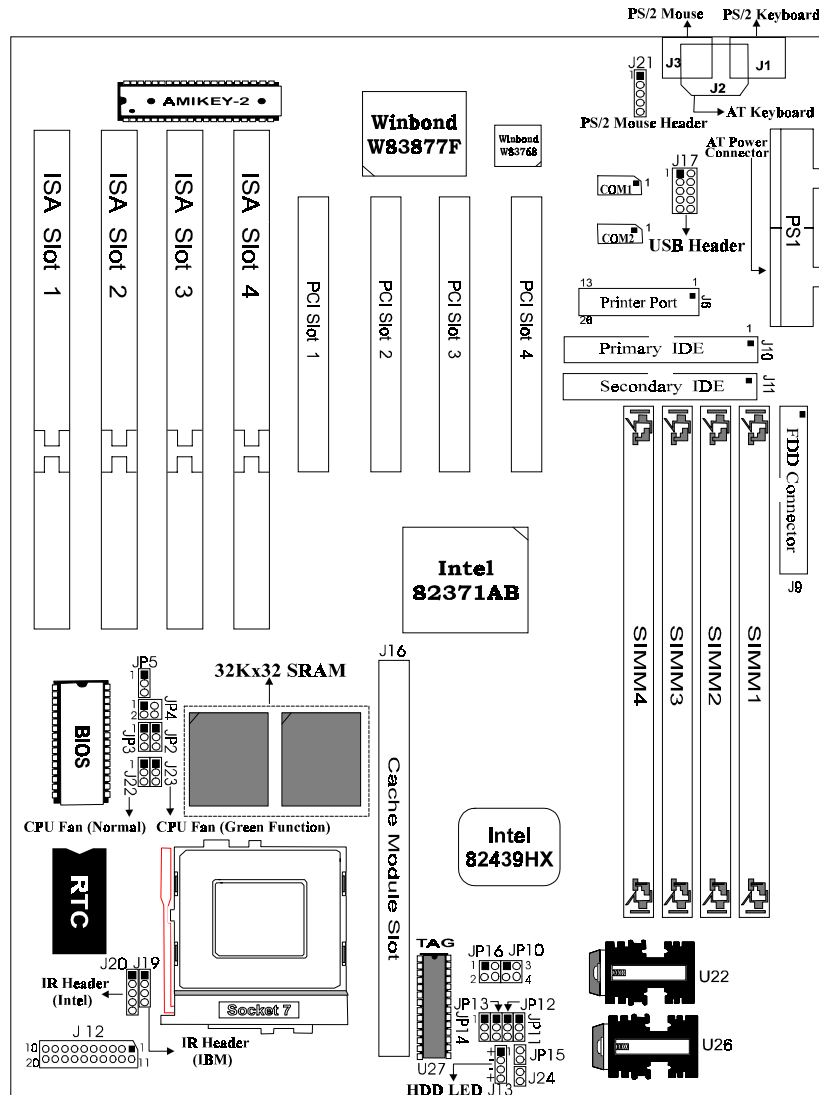


Figure 3-1. P5HX-B Mainboard Layout

*P5HX-B*

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