

3 Jumpers and Connectors

Setting the Jumpers

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

Function		Jumper Settings
CPU Type	Intel Pentium (P54C) (P54CT) (P54CTB)	Intel 75MHz (50MHz Host Clock)
		Intel 90MHz (60MHz Host Clock)
		Intel 100MHz (66MHz Host Clock)
		Intel 120MHz (60MHz Host Clock)
		JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 short 1-2 JP8 short 1-2 JP9 short 1-2, 3-4
		JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 short 1-2 JP8 short 1-2 JP9 short 3-4
		JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 short 1-2 JP8 short 1-2 JP9 short 1-2
		JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 short 1-2 JP8 short 2-3 JP9 short 3-4

Continued....

Function		Jumper Settings
CPU Type	Intel Pentium (P54C) (P54CT) (P54CTB)	Intel 133MHz (66MHz Host Clock) JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 short 1-2 JP8 short 2-3 JP9 short 1-2
		Intel 150MHz (60MHz Host Clock) JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 short 2-3 JP8 short 2-3 JP9 short 3-4
		Intel 166MHz (66MHz Host Clock) JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 short 2-3 JP8 short 2-3 JP9 short 1-2
		Intel 200MHz (66MHz Host Clock) JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 short 2-3 JP8 short 1-2 JP9 short 1-2
	Intel Pentium (P55C) (Optional)	Intel 150MHz (60MHz Host Clock) (U37 must be mounted) JP2 short 2-3 JP3 short 2-3 JP4 short 2-3 JP5 short 2-3 JP7 short 2-3 JP8 short 2-3 JP9 short 3-4

Continued....

Function		Jumper Settings
CPU Type	Intel Pentium (P55C) (Optional)	Intel 166MHz (66MHz Host Clock) (U37 must be mounted) JP2 short 2-3 JP3 short 2-3 JP4 short 2-3 JP5 short 2-3 JP7 short 2-3 JP8 short 2-3 JP9 short 1-2
	Cyrix(6x86)	100MHz (120+) (50MHz Host Clock) JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 open JP8 short 2-3 JP9 short 1-2, 3-4
		110MHz (133+) (55MHz Host Clock) (Optional) JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 open JP8 short 2-3 JP9 open
		120MHz (150+) (60MHz Host Clock) JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 open JP8 short 2-3 JP9 short 3-4
		133MHz (166+) (66MHz Host Clock) JP2 short 1-2 JP3 short 1-2 JP4 short 1-2 JP5 short 1-2 JP7 open JP8 short 2-3 JP9 short 1-2
CPU Voltage Selection	3.3V (STD) JP1 short 1-2	
	3.52V (VRE) JP1 short 3-4	
CMOS RAM Clear Switch	Normal JP11 short 2-3	
	CMOS Data Clear JP11 short 1-2	

Continued.....

Function		Jumper Settings
Cache Memory Size	256KB	JP15 short
	512KB	JP15 open
Flash ROM (Optional) (for Boot Block Flash ROM only)	Normal	JP12 short 2-3
	BIOS Recover	JP12 short 1-2
	PnP (+12V)	JP10 short 2-3
	Non PnP (+5V)	JP10 short 1-2

Table 3 -1. Jumper Settings



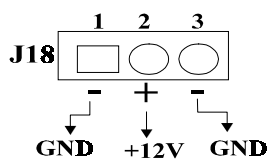
The table below presents the detailed Jumper Settings for different CPU Clock. For example, if Pentium 100MHz CPU is installed, you should set Host Clock as 66 MHz and CPU Core Clock as Host Clock *1.5.

Host Clock		50 MHz	JP9 short 1-2, 3-4
		55 MHz (Optional)	JP9 open
		60 MHz	JP9 short 3-4
		66 MHz	JP9 short 1-2
CPU Core Clock	Intel	Host Clock * 1.5	JP7 short 1-2 JP8 short 1-2
		Host Clock * 2	JP7 short 1-2 JP8 short 2-3
		Host Clock * 2.5	JP7 short 2-3 JP8 short 2-3
		Host Clock * 3	JP7 short 2-3 JP8 short 1-2
	Cyrix	Host Clock * 2	JP7 open JP8 short 2-3
		Host Clock * 3	JP7 open JP8 short 1-2

Green Function

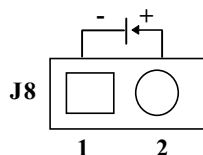
CPU Cooling Fan Control

P5HX-A 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 J18 in order to make it work.



Green Function Indicator

Connect the LED to J8 to indicate the system in low-power suspend mode.

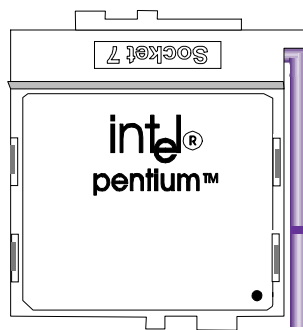
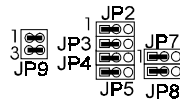


Graphic Descriptions of Jumper Settings

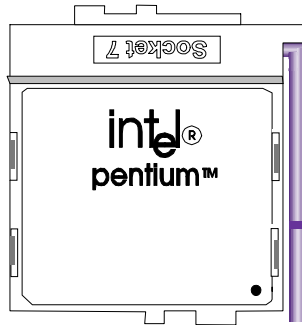
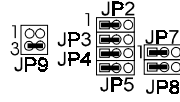


CPU Type

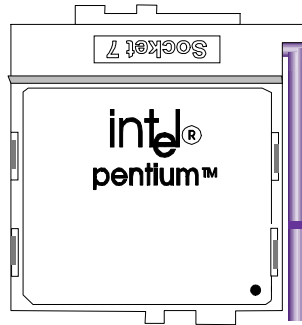
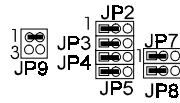
1. Intel Pentium 75MHz (P54C/P54CT/P54CTB) CPU (50MHz Host Clock) installed on board



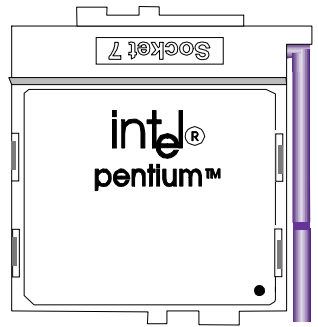
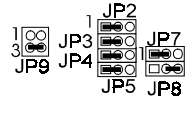
- 2. Intel Pentium 90MHz (P54C/P54CT/P54CTB) CPU (60MHz Host Clock) installed on board



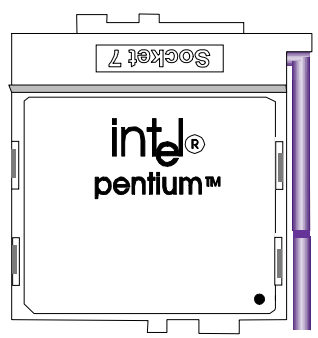
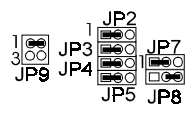
- 3. Intel Pentium 100MHz (P54C/P54CT/P54CTB) CPU (66MHz Host Clock) installed on board



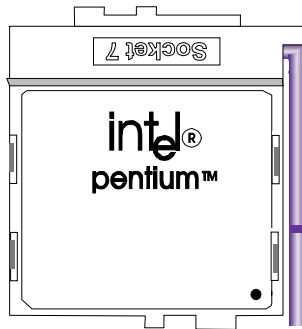
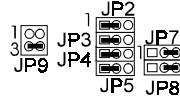
- 4. Intel Pentium 120MHz (P54C/P54CT/P54CTB) CPU (60MHz Host Clock) installed on board



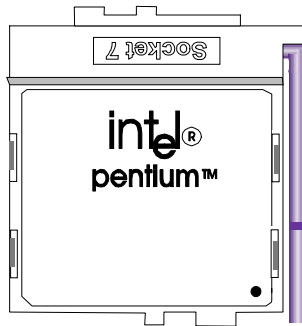
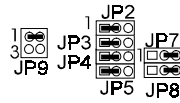
- 5. Intel Pentium 133MHz (P54C/P54CT/P54CTB) CPU (66MHz Host Clock) installed on board



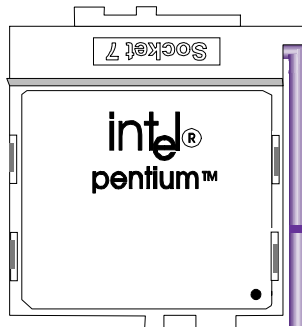
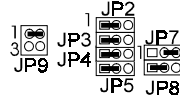
- 6. Intel Pentium 150MHz (P54C/P54CT/P54CTB) CPU (60MHz Host Clock) installed on board



- 7. Intel Pentium 166MHz (P54C/P54CT/P54CTB) CPU (66MHz Host Clock) installed on board

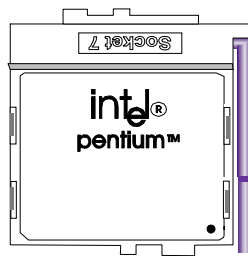
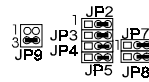
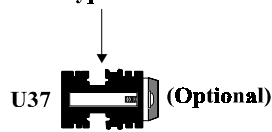


- 8. Intel Pentium 200MHz (P54C/P54CT/P54CTB) CPU (66MHz Host Clock) installed on board



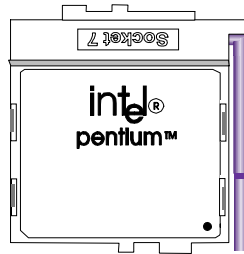
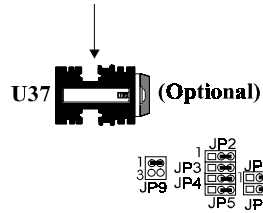
- 9. Intel Pentium 150MHz (P55C) CPU (60MHz Host Clock) installed on board

An additional Voltage Regulator is required to support Intel P55C type CPU.

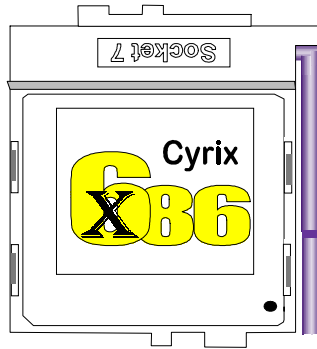
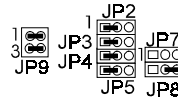


10. Intel Pentium 166MHz (P55C) CPU (66MHz Host Clock) installed on board

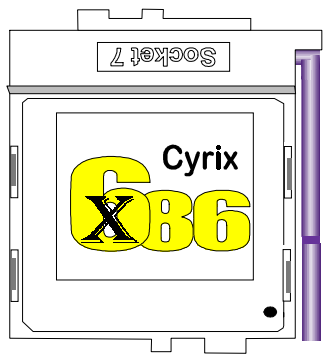
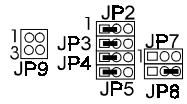
An additional Voltage Regulator is required to support Intel P55C type CPU.



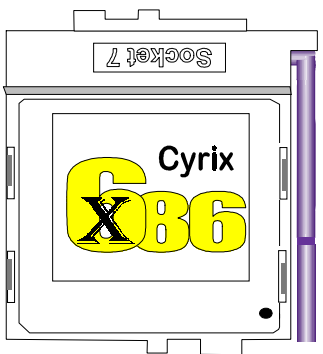
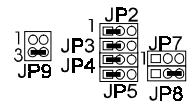
11. Cyrix 6X86 100MHz CPU (50MHz Host Clock) installed on board



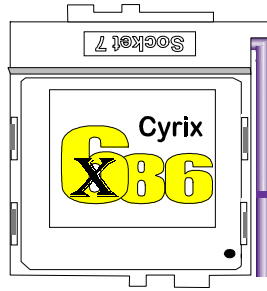
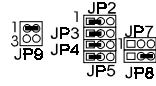
12. Cyrix 6X86 110MHz CPU (55MHz Host Clock) installed on board



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

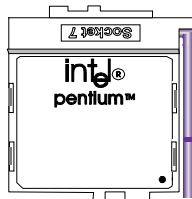
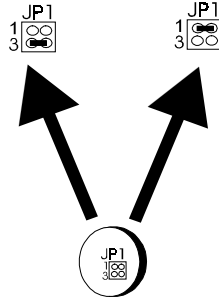


14. Cyrix 6X86 133MHz CPU (66MHz Host Clock) installed on board



CPU Voltage Selection

3.52V (VRE) 3.3V (STD)



Connectors

The following table lists the connectors located on the P5HX-A. They can be used to connect with some peripheral devices to enhance the operating performance of the system. Please refer to the mainboard layout figure on the next page for their positions.

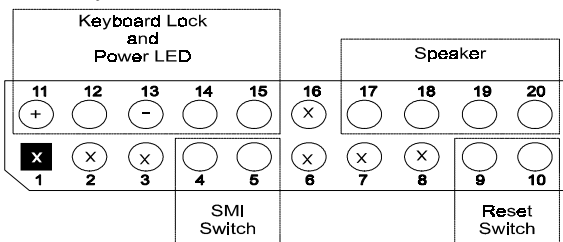
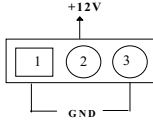
Connector	Function
J1	PS/2 Keyboard Connector
J3	PS/2 Mouse Connector
J4	COM1 Port
J5	COM2 Port
J6	Parallel Port
J8	Blanking LED Connector
J9	FDD Connector
J10	Primary IDE Connector
J11	Secondary IDE Connector
J12	
	X: Reserve
J13	HDD LED
J16	Cache Module
J17	USB 1/2 Header (Optional)
J18	CPU Fan Power
	
J19	Fast IR Header (Optional)
J20	IR Header (Intel)
J21	ATX Power ON/OFF Switch
PS1	AT Power Connector
PS2	ATX Power Connector

Table 3 -2. Connectors

Board Layout

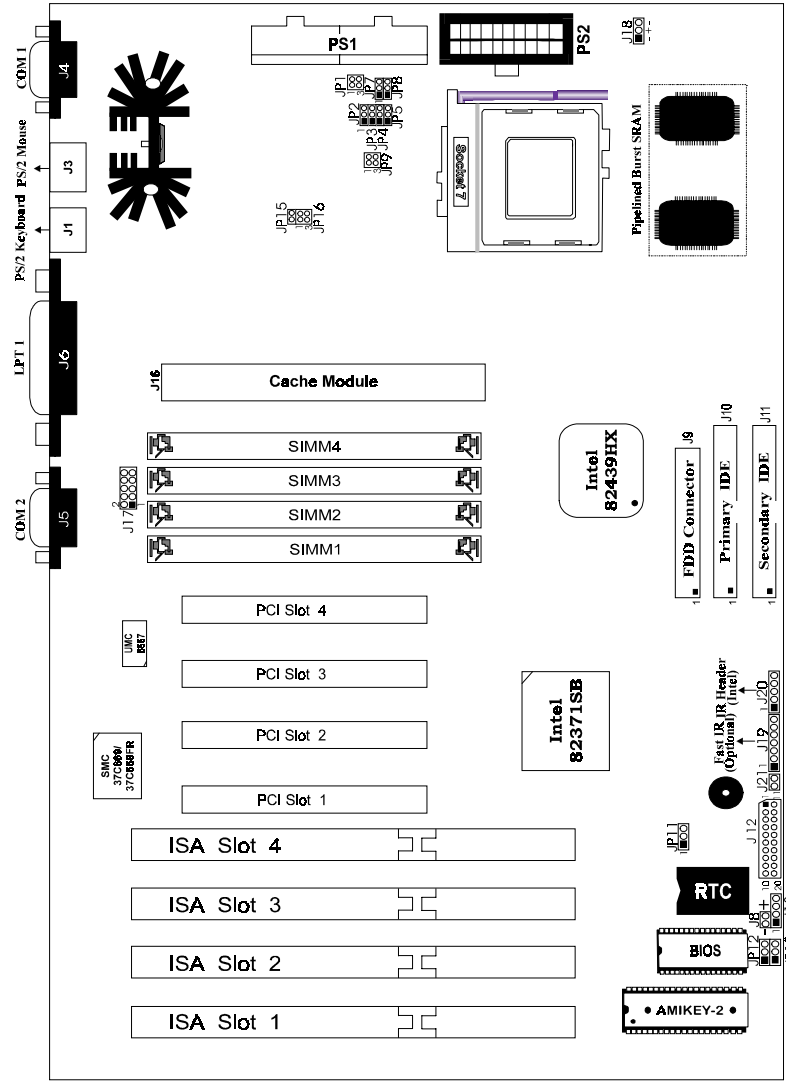


Figure 3 -1. P5HX-A Mainboard Layout

P5HX-A

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