

## 3 Jumpers and Connectors

### Setting the Jumpers

#### Set bus frequency and CPU frequency

Core CPU Freq. (MHz)	Host Clock	JP3	Clock Multiplier	JP11 ☆	JP12
75	50	open	1.5	short 1-2	short 1-2
90	60	short 1-2	1.5	short 1-2	short 1-2
100	66	short 3-4	1.5	short 1-2	short 1-2
110	55	short 1-2, 3-4	2	short 1-2	short 2-3
120	60	short 1-2	2	short 1-2	short 2-3
133	66	short 3-4	2	short 1-2	short 2-3
150	60	short 1-2	2.5	short 2-3	short 2-3
166	66	short 3-4	2.5	short 2-3	short 2-3
200	66	short 3-4	3	short 2-3	short 1-2

Table 3 -1. Host Clock, CPU type and Speed Settings



Cyrix 6x86 CPU does not have multiplier 1.5 and 2.5 . Leave JP11 open for Cyrix 6x86 CPU.



Cyrix 6x86 CPU and AMD K5 CPU use P-rating as the CPU frequency. Refer the following table to get the CPU core frequency. For AMD K5 CPU, check your CPU vendor for detailed information.

Cyrix 6x86	Core CPU Frequency (MHz)
P120+	100
P133+	110
P150+	120
P166+	133

**Set CPU Voltage Type**

<b>Single Voltage CPU</b>	JP15, JP16	<b>CPU Voltage</b>	JP10		
	short 1-2, short 1-2	<b>3.3V (STD) (default)</b>	short 1-2		
		<b>3.525V (VRE)</b>	short 3-4		
<b>Dual Voltage CPU (split power plane CPU)</b>	JP15, JP16	<b>CPU I/O Voltage</b>	JP10	<b>CPU core Voltage</b>	JP17
	short 2-3, short 2-3	<b>3.3V (STD)</b>	short 1-2	<b>2.5V</b>	short 1-2
				<b>2.8V</b>	short 3-4
		<b>3.525V (VRE)</b>	short 3-4	<b>2.5V</b>	short 1-2
				<b>2.8V</b>	short 3-4

Table 3 -2 CPU Voltage Settings



*If you have split power plane CPU ( There are different Voltage between CPU Core and I/O ), Please check CPU vender or us in order to decide core voltage value of JP17.*



*Check your processor documentation for correct voltage setting to avoid the damage of CPU.*

**Single Voltage CPU :** Intel Pentium and OverDrive series, Cyrix 6x86, AMD K5.

**Dual Voltage CPU:** Intel Pentium with MMX technology (P55C), Cyrix 6x86 L, M2 dual voltage, AMD K5 dual voltage CPU.

**Set Cache Memory Size**

<b>256KB (On-board 32Kx32 Burst SRAM only)</b>	JP8	open
<b>256KB (256KB Cache Module only)</b>	JP8	open
<b>512KB (512KB Cache Module only)</b>	JP8	open
<b>512KB (On-board 256KB Burst SRAM and 256KB Cache Module)</b>	JP8	short

Table 3 -3 Cache Memory Size Settings

### Set CMOS RAM Clear Switch

BIOS Setting values and password are stored in CMOS RAM. To clear CMOS Data, please open your computer chassis; short JP13; power on your system carefully ; power off your system ; close your computer chassis; and then CMOS data will be cleared.

<b>Normal (default)</b>	JP13	open
<b>CMOS Data Clear</b>	JP13	short

Table 3 -4. CMOS RAM Clear Settings

### Set Flash ROM

<b>Program Voltage</b>	+5V (default)	JP4	short 2-3
	+12V	JP4	short 1-2

Table 3 -5. Flash ROM Settings

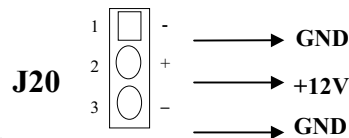


**“CMOS RAM Clear Switch” and “Flash ROM” jumpers should leave as default setting unless you want to clear your CMOS Data or replace the flash part.**

### Green Function

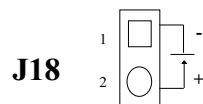
#### CPU Cooling Fan Control

P5VX-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 J20 and enable “CPU Fan Power Green” function in BIOS “Power Management Setup “ in order to make it work.



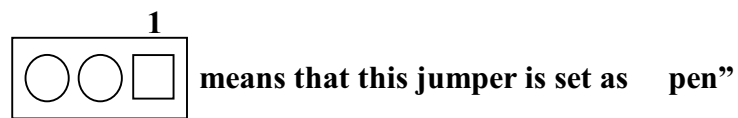
#### Green Function Indicator

Connect the LED to J18. The LED blinking indicates the system in low-power suspend mode.



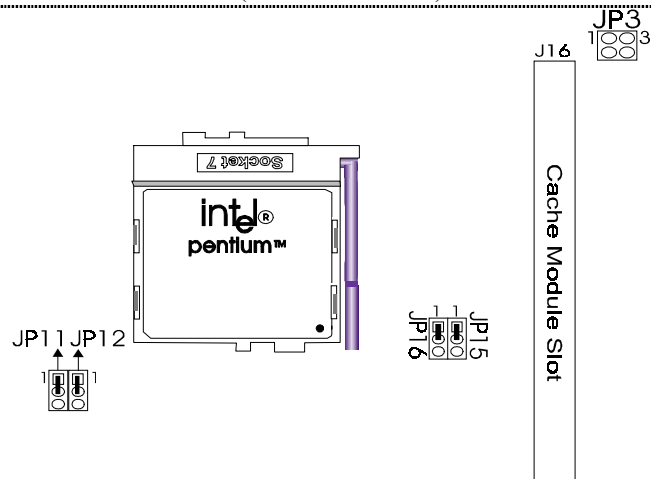
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## Graphic Descriptions of Jumper Settings

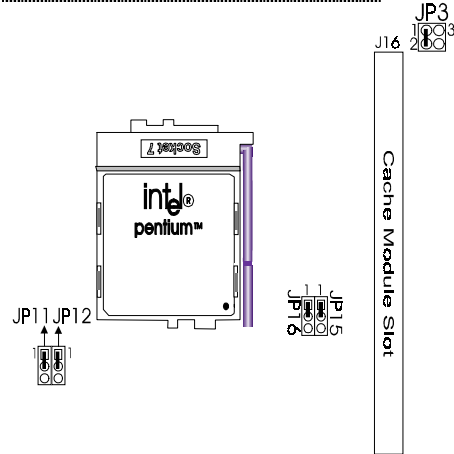


### CPU Type ( The jumpers block for most used CPU)

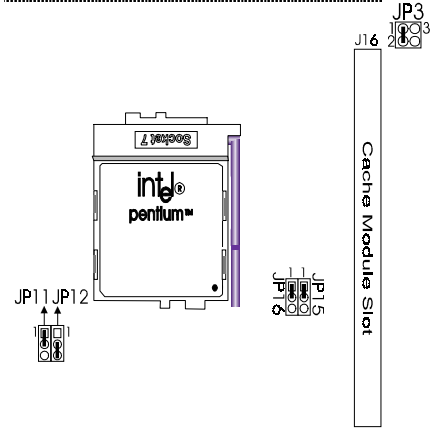
- |  |
|--|
| 1. Intel Pentium 75MHz CPU (50MHz Host Clock) installed on board |
|--|



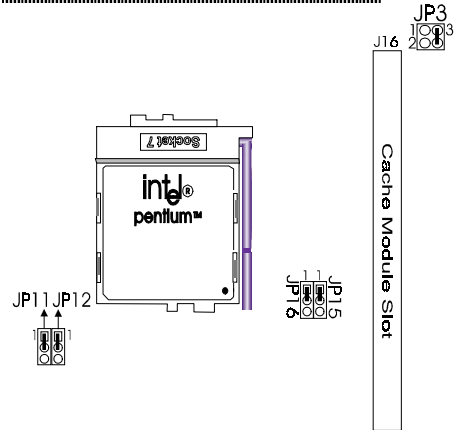
2. Intel Pentium 90MHz CPU  
(60MHz Host Clock) installed  
on board



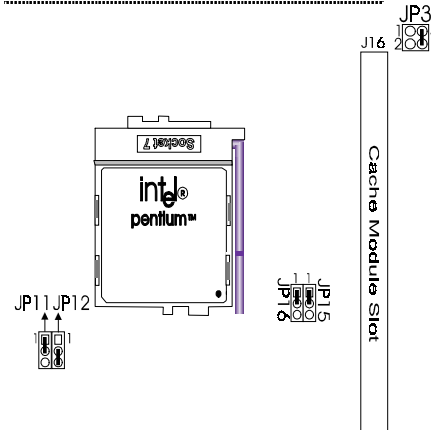
4. Intel Pentium 120MHz CPU  
(60MHz Host Clock) installed  
on board



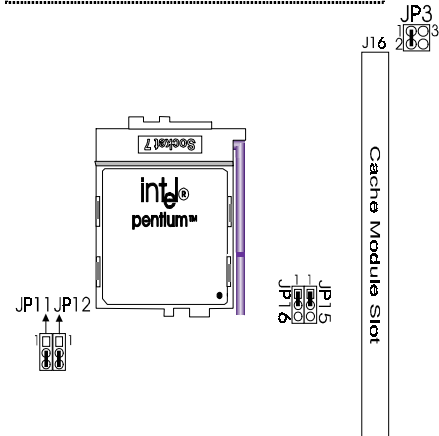
3. Intel Pentium 100MHz CPU  
(66MHz Host Clock) installed  
on board



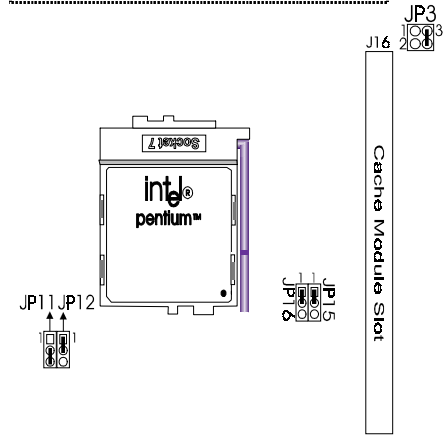
5. Intel Pentium 133MHz CPU  
(66MHz Host Clock) installed  
on board



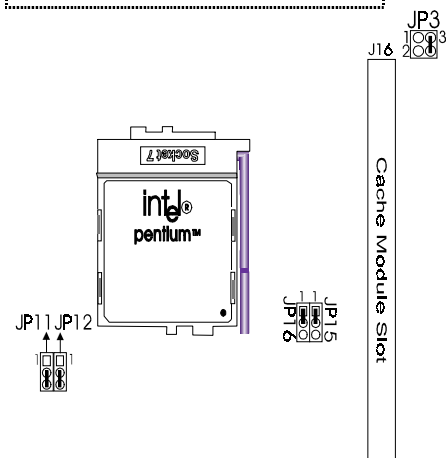
6. Intel Pentium 150MHz CPU  
(60MHz Host Clock) installed  
on board



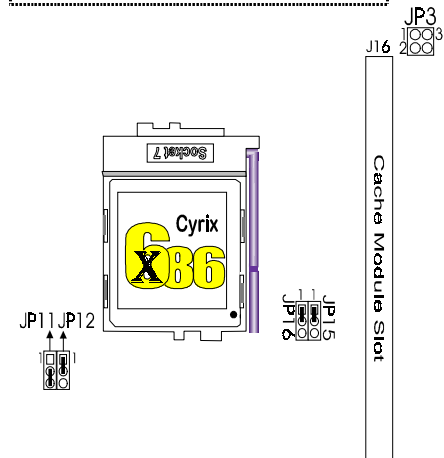
8. Intel Pentium 200MHz CPU  
(66MHz Host Clock) installed  
on board



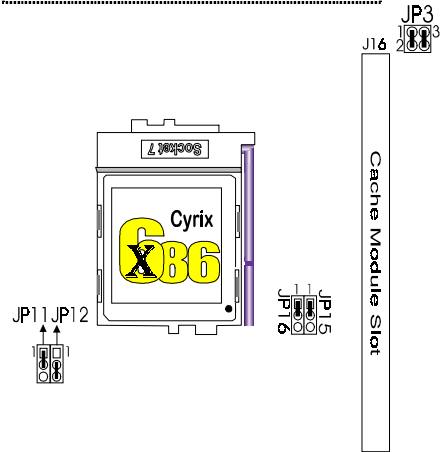
7. Intel Pentium 166MHz CPU  
(66MHz Host Clock) installed  
on board



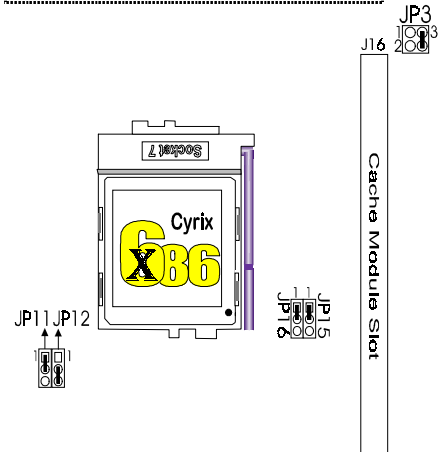
9. Cyrix 6X86 (M1)100MHz CPU  
(50MHz Host Clock) installed  
on board



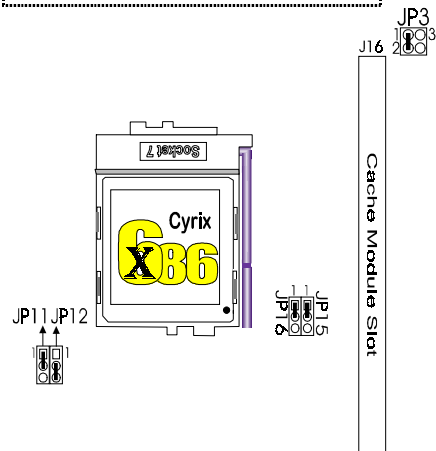
10. Cyrix 6X86 (M1)110MHz CPU  
(55MHz Host Clock) installed  
on board



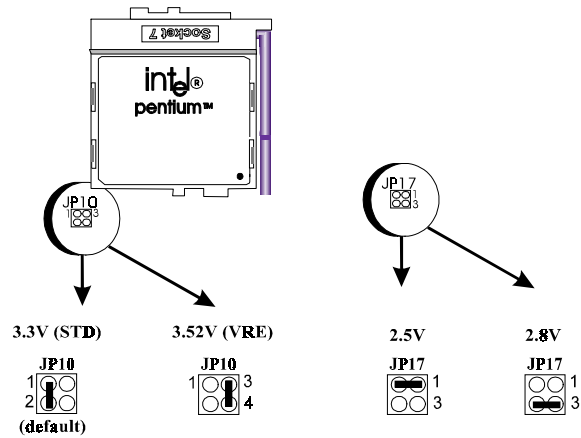
12. Cyrix 6X86 (M1)133MHz CPU  
(66MHz Host Clock) installed  
on board



11. Cyrix 6X86 (M1)120MHz CPU  
(60MHz Host Clock) installed  
on board



## CPU Voltage

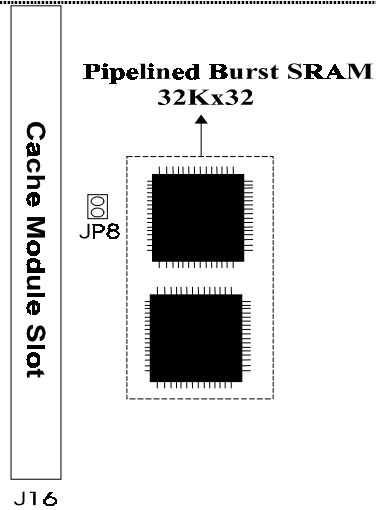


CPU Voltage for single voltage CPU  
or CPU I/O voltage for dual voltage CPU

CPU core voltage for  
dual voltage CPU

## Cache Memory Size

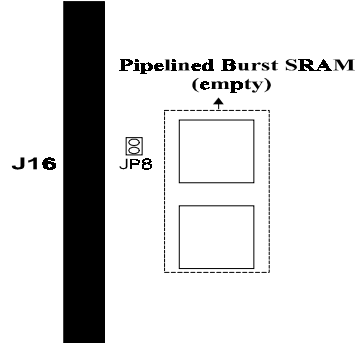
1. 256KB (On-board 32Kx32 Pipelined Burst SRAM only)





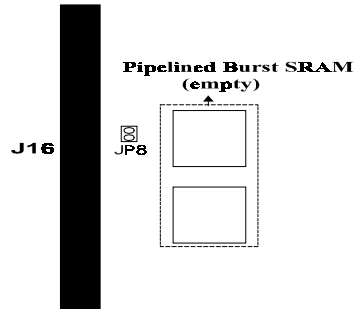
2. 256KB (256KB Cache Module only)

**256KB Cache Module**



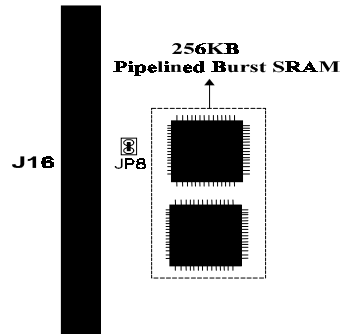
3. 512KB (512KB Cache Module only)

**512KB Cache Module**



4. 512KB (On-board 256KB Pipelined Burst SRAM + 256KB cache Module)

**256KB Cache Module**



## Connectors

The following table lists all connectors located on the P5VX-B. They are used to connecting with some peripheral devices to enhance the operating performance of the system. Please refer to the mainboard layout figure on the next page for the positions of all the connectors.

Connector	Function
J1	PS/2 Keyboard Connector (Optional)
J2	AT Keyboard Connector
J3	PS/2 Mouse Connector (Optional)
J4	COM1 Connector
J5	COM2 Connector
J6	Printer Connector
J7	5-pin Mouse Connector (used to install PS/2 mouse converter)
J8	USB Connector (Optional)
J9	FDD Connector
J10	Primary IDE Connector
J11	Secondary IDE Connector
J12	
J13	HDD LED 
J14	Power Connector
J15	IR Connector ( IBM Module) (Optional)
J16	Cache Module Connector
J17	IR Connector ( Intel Module )
J18	Green Function Indicator (Blinking When suspend)
J20	Fan Power (+12V) Connector 

Table 3 -6. Connectors

## Board Layout

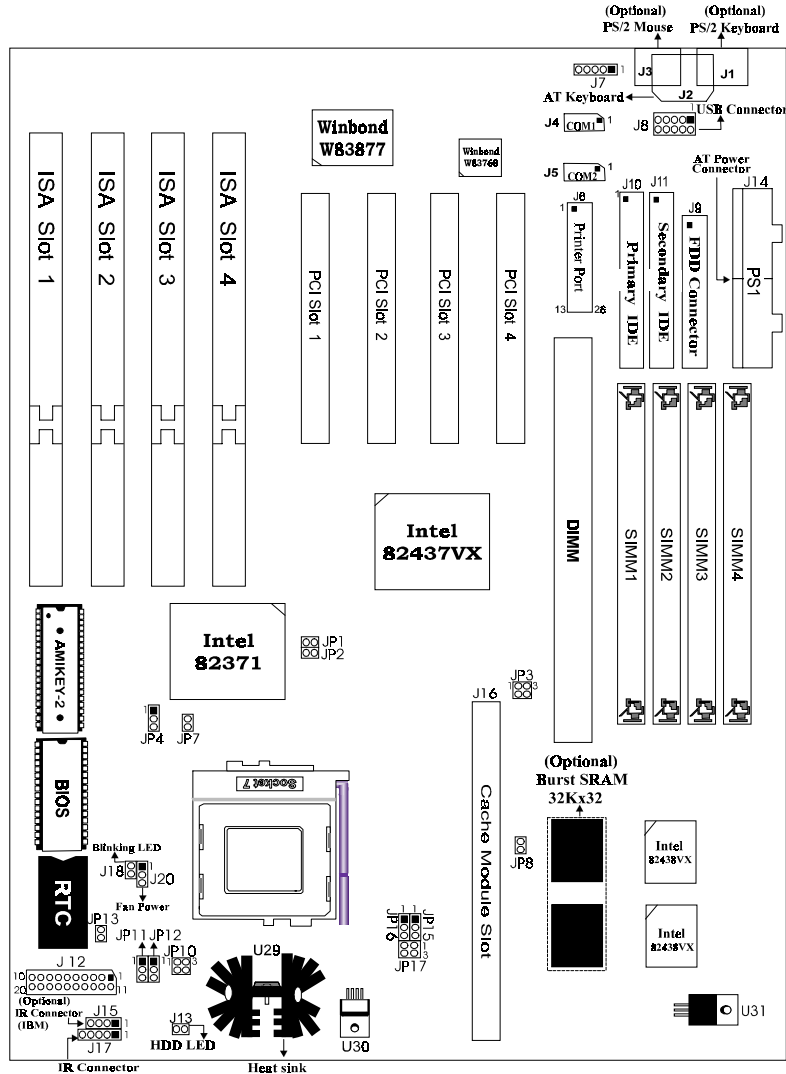


Figure 3-1. P5VX-B Mainboard Layout

*P5VX-B*

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