

2 Installation

This chapter provides information on how to install and configure P5VX-Be Mainboard.

Check List

The standard packing of P5VX-Be should include:

- P5VX-Be mainboard
- 1 IDE cable
- 1 Floppy cable
- 1 9-pin Serial port & PS/2 mouse cable / bracket
- 1 9-pin Serial port & 25-pin parallel port cable / bracket
- P5VX-Be User's Manual

Optional packing of P5VX-Be includes:

Device driver package

IrDA cable / bracket

USB cable / bracket

1 Audio Cable / Bracket

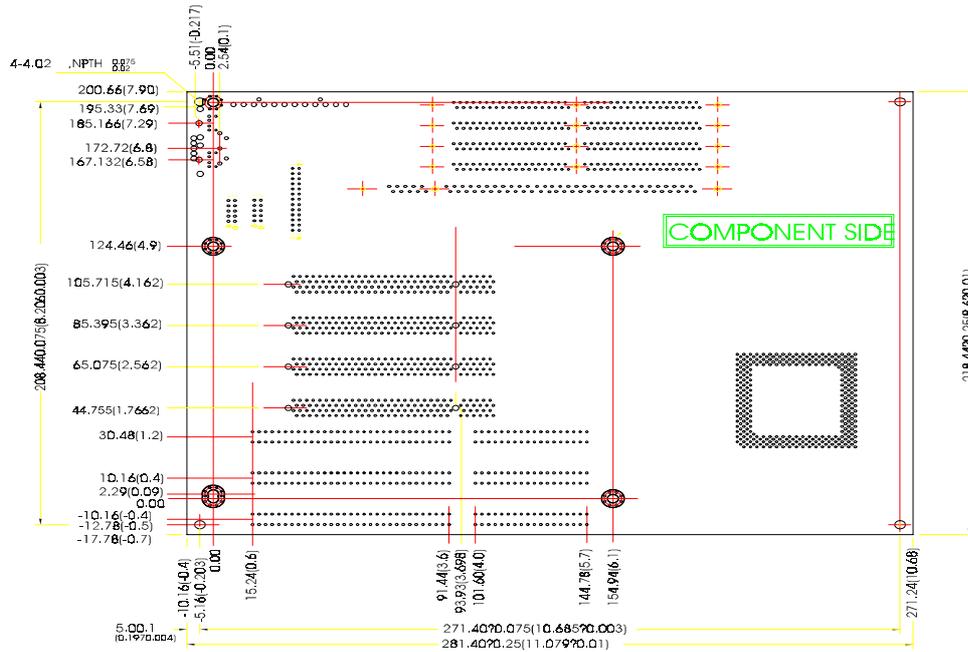
Special offer package of P5VX-Be includes:

IrDA Motherboard Adapter

Installation

Dimensions

P5VX-Be is designed to fit Baby AT form factor chassis. Check the dimensions and mounting holes for special purpose of chassis only.



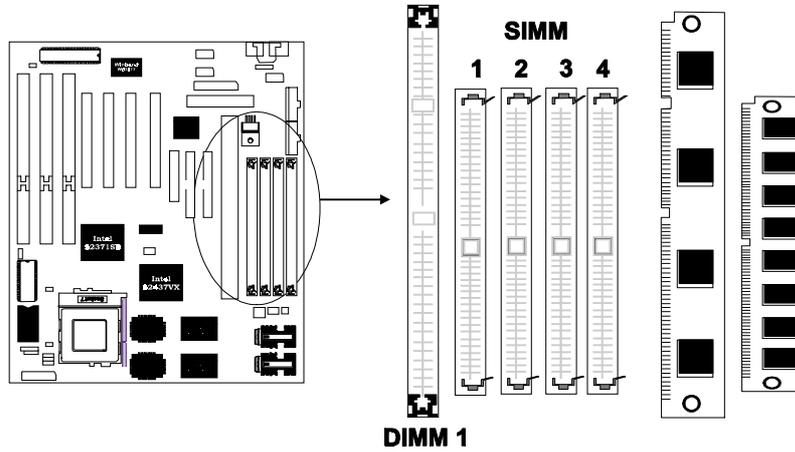
Install Main Memory

P5VX-Be provides tremendous flexibility DRAM configurations. It accepts a maximum of 128MB memory size with fast page mode, Extended Data Output (EDO) memory or synchronous DRAM. The on-board DRAM is installed with 72-pin non-parity SIMM (32-bit) (Single-In-line-Memory Module) and 168-pin DIMM. (Dual-In-line-Memory Module)

The DIMM Socket is in compliance with JEDEC specifications for 3.3V unbuffered EDO / SDRAM Module. A DIMM connector is provided to support up to 32MB EDO / Synchronous DRAM. (SDRAM)

Installation

DRAM Memory Installation:



How to do the Combination ?

Users can install the SIMM module on any bank according to the listing table last page. The possible combinations will make the total memory size from minimum 4 MB to maximum 128MB.

There are a lot of kinds memory combination to choose. Please refer to the table on page 4 for the detailed combination.

The following table lists a number of possible DRAM combinations

Bank 0		Bank 1		DIMM	Total Memory Size
SIMM1	SIMM2	SIMM3	SIMM4	DIMM1	
----	----	----	----	8MB/16MB/32MB	8MB/16MB/32MB
2MB(S)★	2MB(S)	----	----	----	4MB
2MB(S)	2MB(S)	2MB(S)	2MB(S)	----	8MB
4MB	4MB	----	----	----	8MB
4MB	4MB	2MB(S)	2MB(S)	----	12MB
4MB	4MB	4MB	4MB	----	16MB

Continued.....

Installation

Bank 0		Bank 1		DIMM	Total Memory Size
SIMM1	SIMM2	SIMM3	SIMM4	DIMM1	
8MB(S)	8MB(S)	----	----	----	16MB
8MB(S)	8MB(S)	2MB(S)	2MB(S)	----	20MB
8MB(S)	8MB(S)	4MB	4MB	----	24MB
8MB(S)	8MB(S)	8MB(S)	8MB(S)	----	32MB
8MB(D)	8MB(D)	----	----	----	16MB
8MB(D)	8MB(D)	2MB(S)	2MB(S)	----	20MB
8MB(D)	8MB(D)	4MB	4MB	----	24MB
8MB(D)	8MB(D)	8MB(S)	8MB(S)	----	32MB
8MB(D)	8MB(D)	8MB(D)	8MB(D)	----	32MB
16MB	16MB	----	----	----	32MB
16MB	16MB	2MB	2MB	----	36MB
16MB	16MB	4MB	4MB	----	40MB
16MB	16MB	8MB(S)	8MB(S)	----	48MB
16MB	16MB	8MB(D)	8MB(D)	----	48MB
16MB	16MB	16MB	16MB	----	64MB
32MB(D)	32MB(D)	----	----	----	64MB
32MB(D)	32MB(D)	2MB(S)	2MB(S)	----	68MB
32MB(D)	32MB(D)	4MB	4MB	----	72MB
32MB(D)	32MB(D)	8MB(S)	8MB(S)	----	80MB
32MB(D)	32MB(D)	8MB(D)	8MB(D)	----	80MB
32MB(D)	32MB(D)	16MB	16MB	----	96MB
32MB(D)	32MB(D)	32MB(D)	32MB(D)	----	128MB

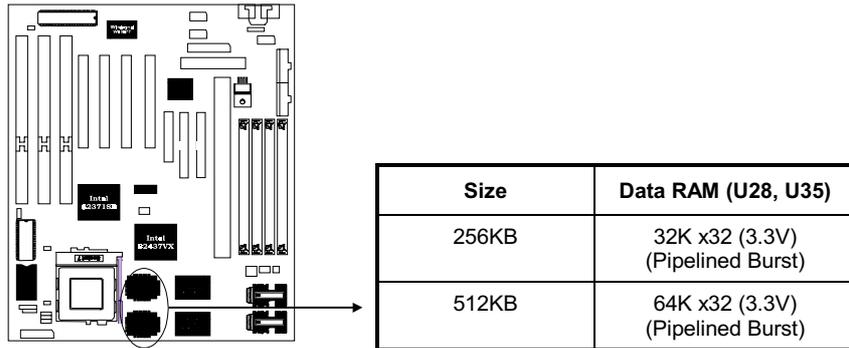
Table 2 -1. System Memory Configurations

☆ : (S) means : Single Side

☆ : (D) means : Double Side

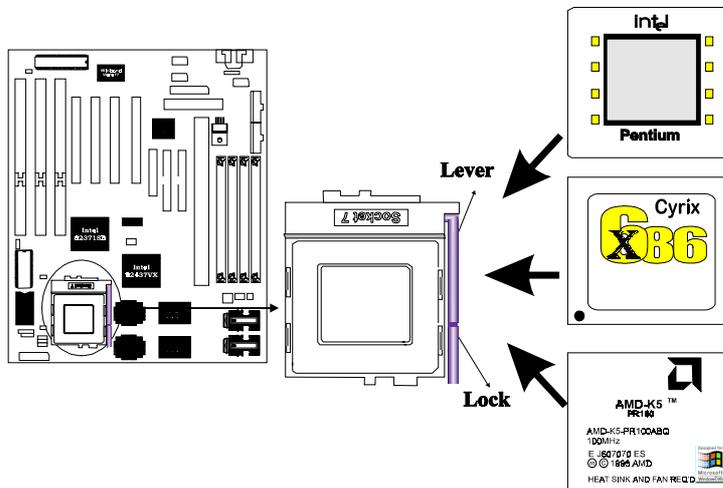
Cache Memory

P5VX-Be is equipped with L2 cache size 256KB or 512KB. L2 Pipelined Burst Cache memory size is manufactured option.



Install CPU

P5VX-Be provides one ZIF socket 7 for installation of Intel Pentium® processor, Intel Pentium® processor with MMX™ technology, Cyrix 6x86 or AMD K5 processor. To install processor, check the direction of CPU and ZIF socket, lift the lever up to the top, put the CPU onto the socket, and lay down the lever of socket and then lock the lever of socket.

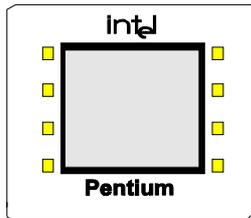


Installation

CPU frequency and Bus frequency:

To install the CPU at its correct frequency, Please refer the following table to set up CPU frequency.

Intel Pentium[®] processor or Intel Pentium[®] processor with MMX[™] technology(P55C) :

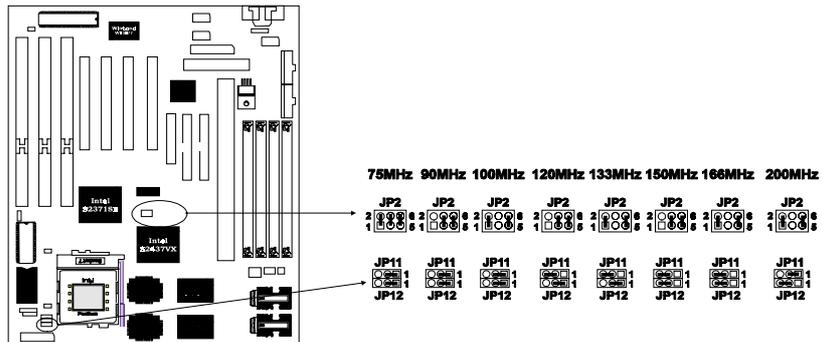


Core CPU Freq. Intel Pentium [®] processor(P55C)	Host Clock	JP2 (Jumper short)	Clock Multiplier	JP11 (Jumper short)	JP12 (Jumper short)
75 MHz	50	1-2, 3-4, 5-6	1.5	1-2	1-2
90 MHz	60	3-4, 5-6	1.5	1-2	1-2
100 MHz	66	1-2, 5-6	1.5	1-2	1-2
120 MHz	60	3-4, 5-6	2	2-3	1-2
133 MHz	66	1-2, 5-6	2	2-3	1-2
150 MHz	60	3-4, 5-6	2.5	2-3	2-3
166 MHz	66	1-2, 5-6	2.5	2-3	2-3
200 MHz	66	1-2, 5-6	3	1-2	2-3

Table 2 -2. Intel Pentium[®] processors Frequency and Bus Frequency

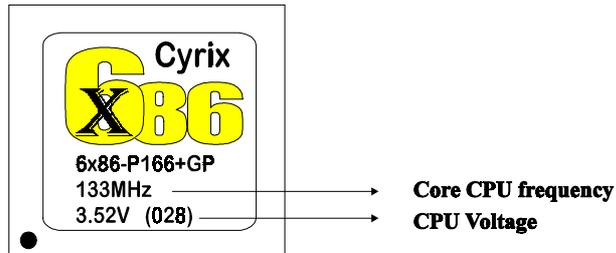


This P5VX-Be can only install Intel Pentium[®] processor with MMX[™] technology with 166MHz or 200MHz.



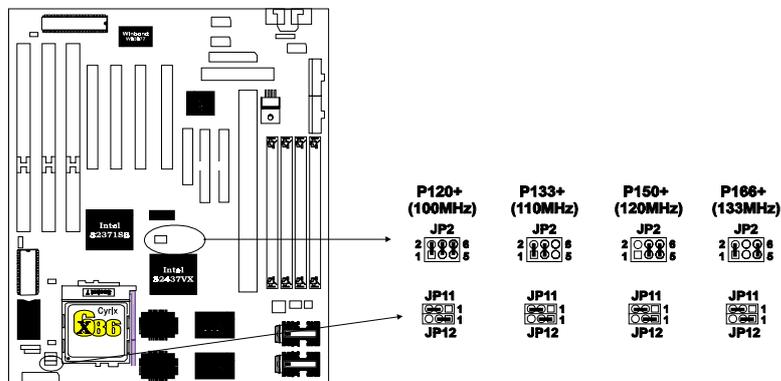
Installation

Cyrix or IBM 6x86 CPU :



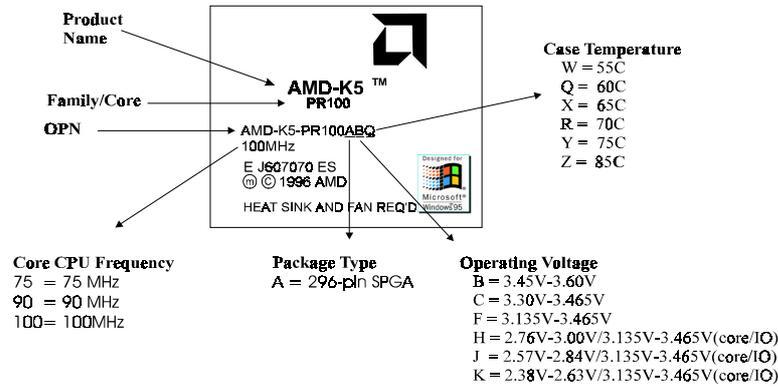
6x86	Core CPU Freq. (MHz)	Host Clock (MHz)	JP2 (Jumper short)	Clock Multiplier	JP11 (Jumper short)	JP12 (Jumper short)
P120+	100	50	1-2, 3-4, 5-6	2	2-3	1-2
P133+	110	55	1-2, 3-4	2	2-3	1-2
P150+	120	60	3-4, 5-6	2	2-3	1-2
P166+	133	66	1-2, 5-6	2	2-3	1-2

Table 2 -3. Cyrix or IBM 6x86 CPU Frequency and Bus Frequency



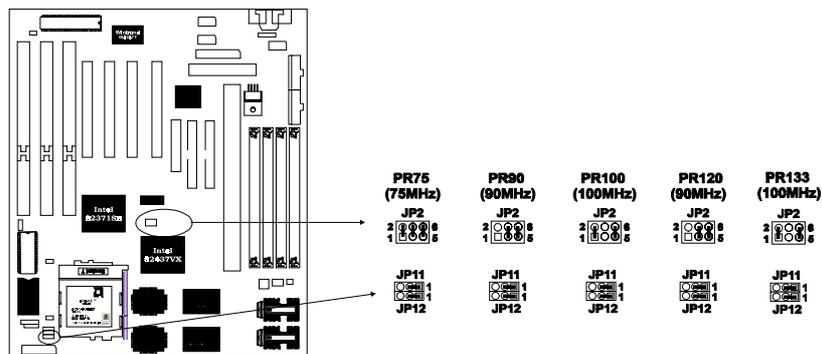
Installation

AMD K5 CPU :



AMD K5	Core CPU Freq. (MHz)	Host Clock (MHz)	JP2 (Jumper short)	Clock Multiplier	JP11 (Jumper short)	JP12 (Jumper short)
PR75	75	50	1-2, 3-4, 5-6	1.5	1-2	1-2
PR90	90	60	3-4, 5-6	1.5	1-2	1-2
PR100	100	66	1-2, 5-6	1.5	1-2	1-2
PR120	90	60	3-4, 5-6	1.5	1-2	1-2
PR133	100	66	1-2, 5-6	1.5	1-2	1-2

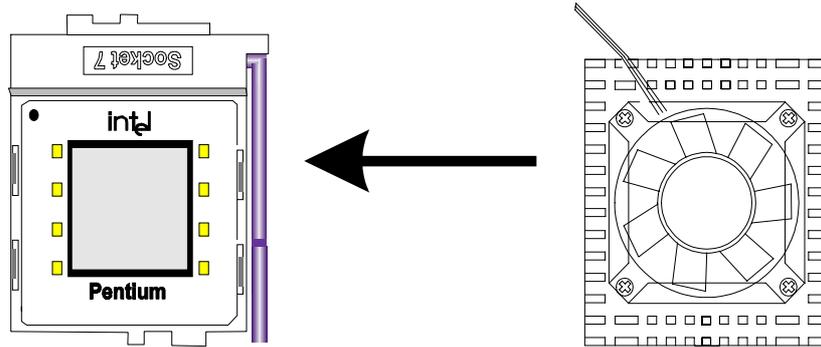
Table 2-4. AMD K5 CPU Frequency and Bus Frequency



Installation

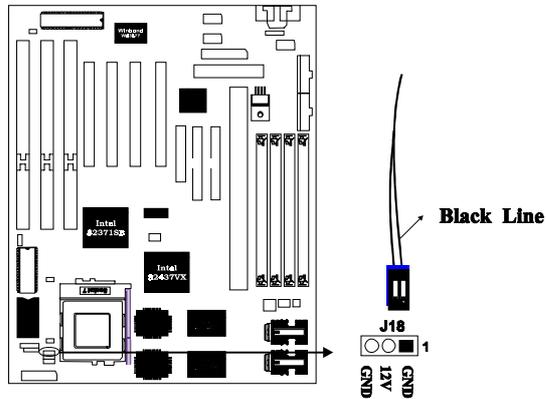
CPU Fan :

The installed CPU needs one fan / heatsink installed on to help heat dissipation. **Do not** install the CPU without the fan/ heatsink.



Install Fan Power On-board:

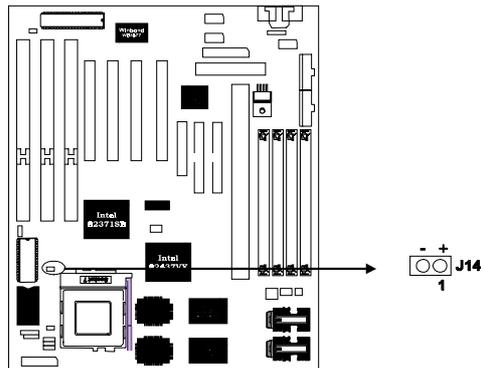
P5VX-Be provides the ability to turn the CPU cooling fan off while the system is in low-power suspend mode. If the fan has 2-pin power-cord, please connect the CPU cooling fan power to J18 and enable “CPU Fan Power Green “ function in BIOS “Power Management Setup” in order to make it work.



Installation

Green LED: (J14)

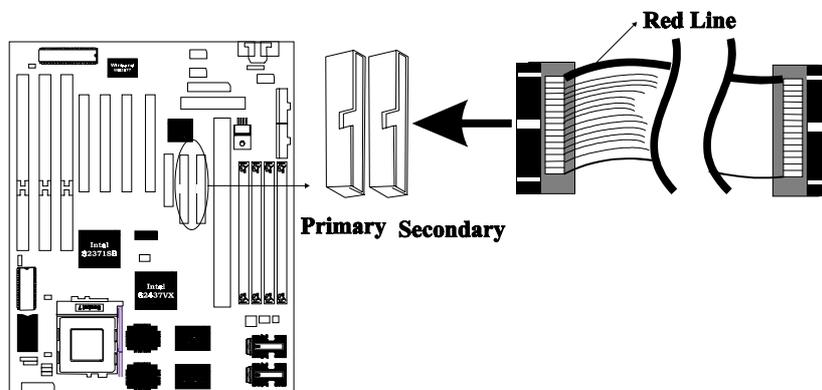
Install Green Function Indicator (Green LED) connect the front panel power LED or green LED to J14. The LED blinking indicates the system in low-power suspend mode.



Install Cables

IDE Connector:

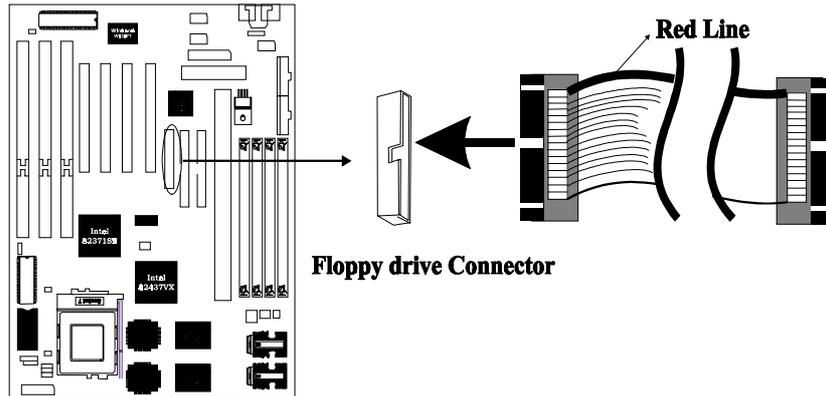
P5VX-Be provides 2 PCI IDE connectors which supports 2 ATAPI IDE devices (for example, Hard Drive and CD-ROM) on each connector. Use 40-pin IDE cable to connect IDE devices and IDE connector.



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Floppy Cable:

P5VX-Be provides one floppy drive connector with one 34-pin floppy cable. It can support 2 floppy drivers with type : 360KB/ 720KB/ 1.2 MB / 1.44MB or 3 mode.



IrDA :

P5VX-Be is an IrDA-capable mainboard. It gives users IR wireless data exchange directly from mobile computers, printers and PDAs,.....etc. Optional IrDA cable/ bracket provides connector with IrDA module.

