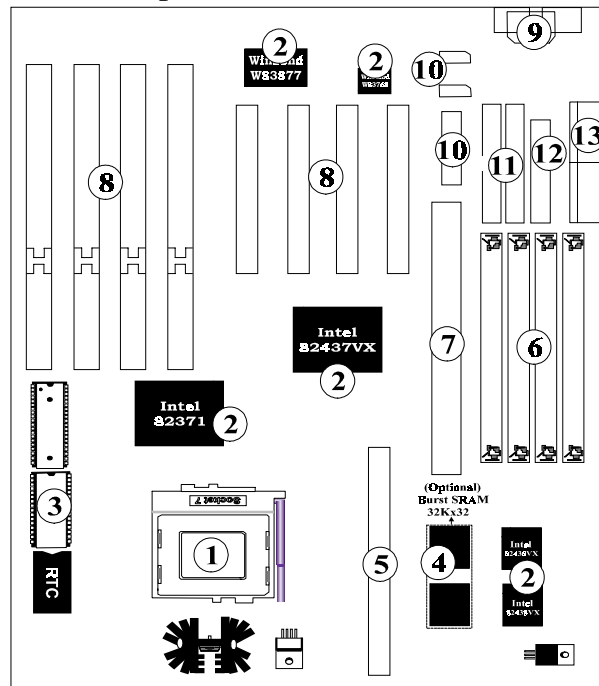


# 1 Introduction

## Mainboard Description



- |                                       |                              |
|---------------------------------------|------------------------------|
| ① Processor                           | ② Chipset                    |
| ③ System BIOS                         | ④ L2 On-board Cache          |
| ⑤ L2 Cache Module Socket              | ⑥ SIMM System Memory Sockets |
| ⑦ DIMM Memory Socket                  | ⑧ Expansion Slots            |
| ⑨ AT K/B or PS/2 Mouse & Keyboard Set | ⑩ Serial/ Parallel Ports     |
| ⑪ PCI IDE Connectors                  | ⑫ FDD Connector              |

*P5VX-B*

**⑬ Power Supply Connectors**

P5VX-B is a Pentium PCI mainboard using Intel 430 VX PCIsset [TXV (82437VX ), TDX(82438VX) and PIIX3 (82371) system chipset ] and Winbond I/O Chip W83877, W83768 . There are 4 ISA Bus slots and 4 PCI Bus slots. It also supports 2 banks (4 SIMMs) DRAM and 1 bank synchronous DRAM (SDRAM) with memory size up to 128MB; 1 COAST module supports 256/512KB Pipelined Burst SRAM.

**1. Processor:**

Intel 75/90/100/120/133/150/166/180/200 MHz  
Intel Pentium with MMX technology (P55C)  
Cyrix 6x86 100/110/120/133 MHz (M1) CPU  
Cyrix 6x86 L

**2. Chipset:**

Intel 82437VX (Host to PCI Bridge)  
Intel 82438VX (Data Buffer)  
Intel 82371 (PCI IDE ISA Xcelerator)  
Winbond 83877 (Super I/O Controller)  
Winbond 83768 (I/O TTL Integration)

**3. System BIOS:**

Award BIOS

**4. L2 On-board Cache:**

Provides On-board 0 K or 256K(default) pipelined Burst L2 Cache.

**5. L2 Cache Module:**

An optional ECS “CM161” or later version of upgrade cache module can be inserted to expand the cache memory size to 256KB or 512KB.

An “COAST 2.0” or later version specification cache module can also be used to upgrade the cache memory size.

**6. SIMM System Memory Socket:**

Supports 72-pin SIMMs of 4MB, 8MB, 16MB or 32MB to form a memory size between 4MB to 128MB

**7 DIMM Memory Socket:**

A DIMM socket is provided in the motherboard to support up to 32MB synchronous DRAM (SDRAM). The DIMM Socket is in compliance with JEDEC specifications for unbuffered SDRAM Module.

**8. Expansion Slot:**

4 ISA Bus Slots.  
4 PCI Bus Slots. (with one share slot)

**9. AT K/B or PS/2 Mouse & Keyboard Set:**

Provides Connectors for AT K/B(default) or PS/2 Keyboards & PS/2 Mouse.

*P5VX-B*

**10. Serial / Parallel Port:**

Provides two serial ports and one parallel port.

**11. PCI IDE Connector:**

2 Enhanced PCI IDE up to 4 IDE Device Connectors.

**12. FDD Connector:**

Provides an on-board FDD Connector which supports 360KB/720KB/1.2MB/1.44MB/2.88MB type drives.

**13. Power Supply Connectors:**

Provides the connectors for standard PC power supply.

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## Features

### θ CPU:

- Support Pentium 75/90/100/120/133/150/166/180/200 MHz CPU with On-board Regulator and Intel Overdrive CPUs.
- Intel Socket 7 approval.
- Support Pentium with MMX technology (P55C).
- Support Cyrix 6x86 100/110/120/133 MHz CPU.
- Support Cyrix 6x86 L CPU.

### θ BIOS:

- Support Award BIOS with flash ROM.
  - ⌘ PNP specification V1.0a
  - ⌘ APM specification V1.2
  - ⌘ DMI specification.
  - ⌘ Boot from CD-ROM

### θ Cache:

- Support the CPU's internal first level (L1) cache and external secondary level (L2) cache.
  - > **16KB Level 1 Cache inside Pentium:**
    - ⌘ Data Cache: supports 8KB Write-Through and Write-Back policy.
    - ⌘ Code Cache: supports 8KB Write-Through policy.
  - > **256KB (default) Pipelined Burst SRAM L2 Cache On Board.**
  - > **160-pin Cache Module Socket for Level 2 Cache:**
    - ⌘ Support COASt 2.0 or later version specification Pipelined Burst for 256KB or 512KB.

### θ Memory:

- Support 4 pieces of 72-pin SIMM sockets and 1 piece of 168-pin DIMM socket with total memory size from 4MB to 128MB.
  - Support EDO/ Fast Page Mode and Synchronous DRAM.
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