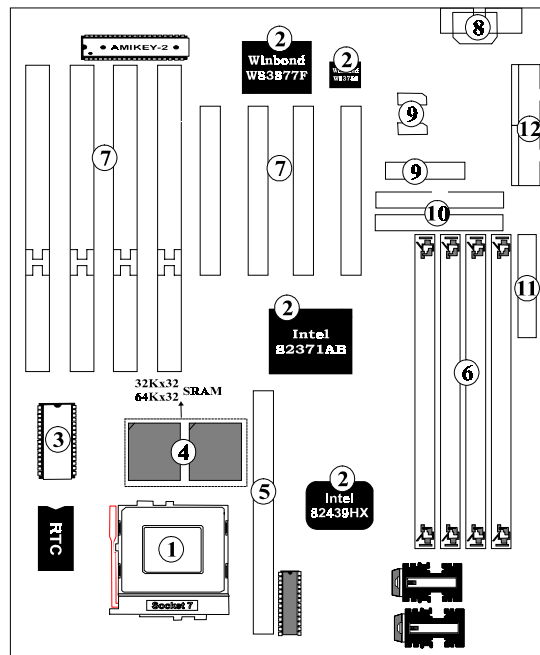


1 Introduction

Mainboard Description



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

P5HX-B

P5HX-B is a Pentium PCI W/Z I/O mainboard using Intel 430HX chipset (TXC, PIIX 3) and Winbond I/O Chip W83877F, W83768F. P5HX-B integrated with new capacities, such as PB SRAM, ECC, USB, and BUS Master IDE...etc. is designed to support leading technologies of PC market.

1. Processor:

Intel Pentium™ 75/90/100/120/133/150/166/200 MHz
Intel Pentium with MMX technology (P55C)
Cyrix 6x86 P120+/P133+/P150+/P166+
Ready for power-split CPU (dual voltage CPU)

2. Chipset:

Intel 430HX 82439HX (TXC) / 82371AB (PIIX3)
Winbond I/O Chip W83877F, W83768F

3. System BIOS:

Award BIOS

4. L2 On-board Cache:

Provide Pipelined Burst SRAM 256/512 KB on-board.

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 cache module can also be used to upgrade the cache memory size.

6. SIMM System Memory Socket:

Support 72-pin SIMMs of 4MB, 8MB, 16MB ,32MB or 64MB to form a memory size between 8MB to 256MB

7. Expansion Slot:

4 ISA Bus Slots.
4 PCI Bus Slots. (One ISA-PCI Shared Slot)

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

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

9. Serial / Parallel Port:

Provides two serial ports and one parallel port.

10. PCI IDE Connector:

2 Enhanced PCI IDE up to 4 IDE Device Connectors.

11. FDD Connector:

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

12. Power Supply Connectors:

Provides the connectors for standard PC power supply.

Features

θ CPU:

- One Socket 7 supports Pentium 75/90/100/120/133/150/166/200 MHz CPU and Intel Pentium OverDrive CPUs.
- Manufacture optional 2nd Regulator to support Intel Pentium with MMX technology.(P55C)
- Support Cyrix P120+/P133+/P150+/P166+ CPU.
- Ready for Cyrix 6x86 L.

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: (Pentium)**
 - ⌘ Data Cache: support 8KB Write-Through and Write-Back policy.
 - ⌘ Code Cache: support 8KB Write-Through policy.
 - > **256KB /512KB (optional) Pipelined Burst SRAM On Board.**
 - > **160-pin Cache Module Socket for Level 2:**
 - ⌘ Support COAST 2.0 or later Pipelined Burst for 256KB or 512KB.

P5HX-B

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

θ **Memory:**

- Support 4 pieces of 72-pin SIMM sockets with memory size from 8MB to 256MB.
- Support EDO/ Fast Page Mode DRAM.
- Support parity check or ECC function with parity SIMMs.

θ **Slots:**

- Four 16-bit ISA slots with 100% ISA compatible function.
- Four 32-bit PCI slots support PCI Bus master.
 - PCI specification version 2.1.
 - CPU to PCI memory write posting with 4 word deep buffers.
 - Converts Back-to-Back sequential CPU to PCI memory writes to PCI Burst writes.

θ **FDD:**

- Two floppy support 360KB, 720KB, 1.2MB, 1.44MB, 2.88MB, and 3 Mode floppy drives.

θ **RTC:**

- Use Dallas 12B887 compatible RTC module (Internal 128 byte of CMOS RAM).

θ **IDE:**

- Build-in Intel 430HX PCIset chip 32-bit PCI IDE interface with 2 IDE channels.
- Support PIO mode 4 or DMA mode 2 with transfer rate up to 22MB/sec.

θ **Power Management:**

- CPU cooling fan control.
- Green function Indicator
- EPA compliant.