

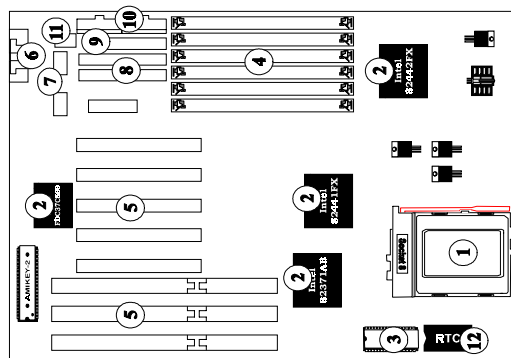
1 Introduction

Main Features

P6FX1-B is a Pentium Pro mainboard based on the Intel 440FX chipset (82441FX, 82442FX and 82371SB) and SMC 37C669 Super I/O Chip. There are three ISA Bus slots and five PCI Bus slots on P6FX1-B. Three banks (6 SIMMs) DRAM with memory size up to 384MB support fast page mode or EDO memory type. Baby AT form factor lets users install the board in a traditional PC AT chassis.

This is a high performance all-in-one mainboard which supports Intel Pentium-Pro CPU, EDO DRAM, ECC function, USB interface, PCI IDE interface.....and so on.

Mainboard Description



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

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Specification

1. Processor Socket:

- One Socket 8 supports Pentium Pro 150/166/180/200 MHz CPU
- L1 16 KB, L2 256/512KB cache in Pentium Pro Processor.
- Upgrade capacity to future Pentium Pro Overdrive.

2. Chipset:

- Intel 440FX Pentium Pro Chipset.
- SMC 37C699 (PnP Super I/O Controller).

3. System BIOS:

- Award flash BIOS.
 - ⌘ DMI 2.0
 - ⌘ PnP 1.0a (comply with Intel and Windows 95)
 - ⌘ PCI 2.1
 - ⌘ CD ROM boot

4. SIMM System Memory Socket:

- 6 pieces of 72-pin SIMM sockets with memory size from 8MB to 384MB.
- Support parity or error checking and correction. (ECC function for reliability) with 36-bit SIMMs.
- Support EDO / Fast Page Mode DRAM .

5. Expansion Slots:

- 3 16-bit ISA slots with 100% ISA compatible function.
- 5 32-bit PCI slots all support PCI master.
 - ⌘ PCI specification version 2.1.
 - ⌘ CPU to PCI memory write posting with 4 Word deep buffers.
 - ⌘ Convert Back-to-Back sequential CPU to PCI memory writes to PCI Burst writes.
 - ⌘ PCI slot 4 and PCI slot 5 share the same IRQ.

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6. AT Keyboard or PS/2 Mouse & Keyboard Set:

- Provides Connectors for AT Keyboard & PS/2 mouse cable / bracket or PS/2 mouse & keyboards connector set.

7. Serial / Parallel Ports:

- One mutil-mode parallel port with chip-protect circuitry supports standard, enhanced (EPP), high speed (ECP) mode.
- Two high speed 16C550 UART compatible buffer fast serial port.
- Support IrDA/ASKIR Infrared Interface.

8. PCI IDE Connector:

- Build-in Intel 82371SB chip 32-bit PCI IDE interface with 2 IDE channels.
 - Ä Support Maximum 4 IDE devices.
 - Ä Support PIO and Bus master IDE.
 - Ä Support up to PIO mode 4 timings or bus master.
 - Ä Transfer 8x32 bit buffer for Bus master IDE PCI Burst
 - Ä Support Separate Master / Slave IDE mode.
 - Ä Plug and Play compatible.
 - Ä Fully compatible with PCI local bus specification V2.1.

9. FDD Connector:

- Two floppy drives support 360K/720K/1.2MB/1.44MB/2.88MB and 3 mode floppy drives.

10. Power Supply Connector:

- Provides the connectors for standard PC power supply.

11. USB Header:

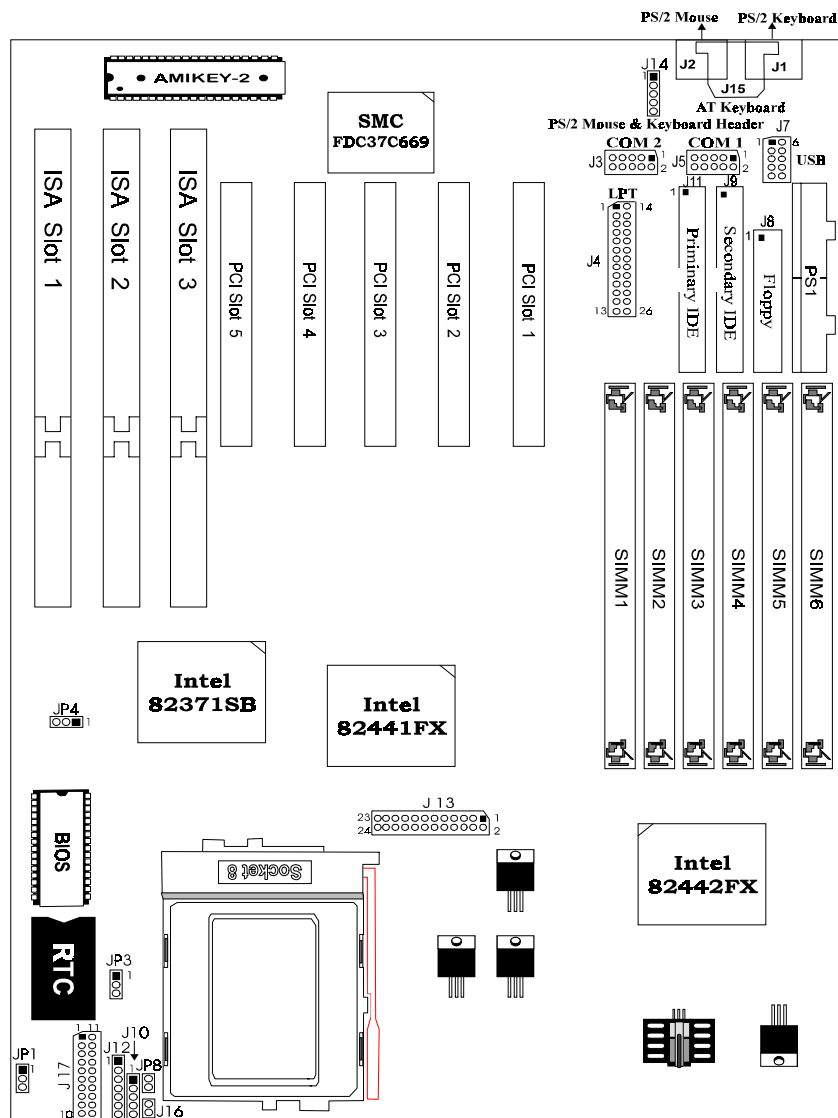
- Provides the interface for use of two USB channels.

12. RTC:

- Stores the CMOS data, Real Time Clock and built-in battery.

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Mainboard Layout



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Figure 1 -1. P6FX1-B Mainboard Layout