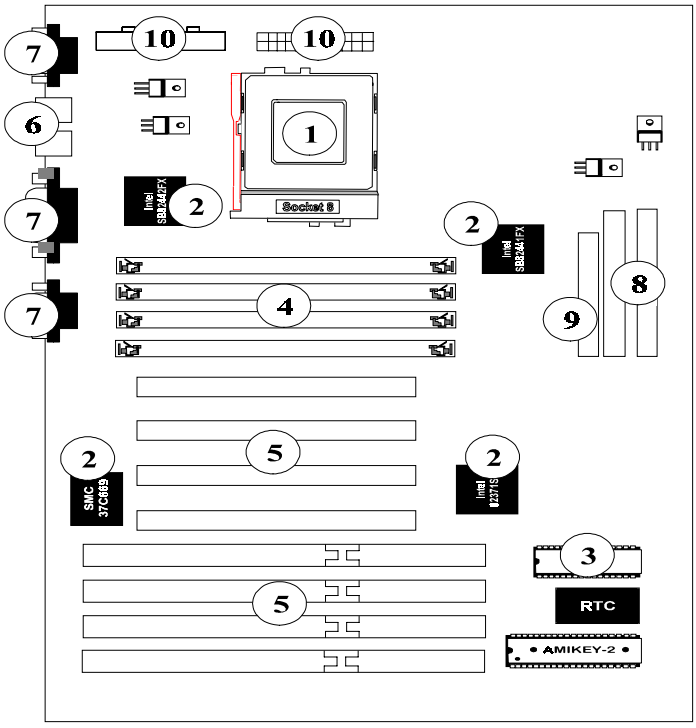
1 Introduction

Mainboard Description



① **Processor**
② **Chipset**
③ **System BIOS**
④ **SIMM System Memory Socket**
⑤ **Expansion Slots**
⑥ **PS/2 Mouse & Keyboard Set**
⑦ **Serial / Parallel Ports**
⑧ **PCI IDE Connectors**
⑨ **FDD Connector**
⑩ **Power Supply Connectors**

P6FX1-A is a Pentium Pro mainboard based on the Intel 440FX Chipset (82441FX, 82442FX and 82371SB) and SMC I/O chip. There are four ISA Bus slots and four PCI Bus slots on P6FX1-A. It also supports two banks (4 SIMMs) DRAM with memory size up to 256MB. If you use with parity SIMM, you can enable BIOS ECC function. There is only one bit error correction and up to double bit error detectation in the system.

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

1. Processor:

Socket 8 supports Intel Pentium Pro 150/166/180/200 MHz
Upgrade to P6S and P6T CPU.

2. Chipset:

Intel 440FX Pentium Pro chipset
SMC 37C669 (Super I/O Controller)

3. System BIOS:

Award BIOS with full Green Function Pnp and DMI 2.0.

4. SIMM System Memory Socket:

Support 8MB to 256MB

5. Expansion Slot:

4 ISA Bus Slots.
4 PCI Bus Slots.

6. PS/2 Mouse & Keyboard Set:

Provides Connectors for PS/2 Keyboards & PS/2 Mouse.

7. Serial / Parallel Port:

Provides two serial ports and one parallel port.

8. PCI IDE Connector:

2 Enhanced PCI IDE up to 4 IDE Device Connectors.

9. FDD Connector:

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

10. Power Supply Connectors:

Provides the connectors for standard PC power supply and ATX power supply.

Features

θ **CPU:**

- One Socket 8 supports Pentium Pro 150/166/180/200 MHz CPU
- Upgradable to P6S and P6T CPUs.

θ **BIOS:**

- Award BIOS with Green Flash ROM, DMI and CDROM boot function .
- Comply with Intel and Windows 95 PnP.
  - Ä PNP specification V1.0a
  - Ä PCI 2.1

θ **Memory:**

- 4 pieces of 72-pin SIMM sockets with memory size from 8MB to 256MB.
- Support parity or error checking and correction. (ECC function for reliability)
- Support EDO /Fast Page Mode DRAM .

θ **Slots:**

- 4 16-bit ISA slots with 100% ISA compatible function.
- 4 32-bit PCI slots all support PCI master.
  - Ä PCI specification version 2.1.
  - Ä CPU to PCI memory write posting with 4 Word deep buffers.
  - Ä Convert Back-to-Back sequential CPU to PCI memory writes to PCI Burst writes.

θ **IDE:**

- Build-in Intel 82371SB chip 32-bit PCI IDE interface with 2 IDE channels.
  - Ä Support PIO and Bus master IDE
  - Ä Support up to PIO mode 4 timings
  - 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.

θ **FDD:**

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

θ **I/O:**

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

θ **System and Power Management:**

- Support Advanced Power Management (APM)
- Support Soft Power Down Function.