
Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions contained in this manual, may cause harmful interference to radio and television communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- RE-ORIENT OR RELOCATE THE RECEIVING ANTENNA
- INCREASE THE SEPARATION BETWEEN THE EQUIPMENT AND THE RECEIVER
- CONNECT THE EQUIPMENT INTO AN OUTLET ON A CIRCUIT DIFFERENT FROM THAT OF THE RECEIVER
- CONSULT THE DEALER OR AN EXPERIENCED AUDIO/TELEVISION TECHNICIAN

NOTE: Connecting this device to peripheral devices that do not comply with Class B requirements, or using an unshielded peripheral data cable, could also result in harmful interference to radio or television reception.

The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

To ensure that the use of this product does not contribute to interference, it is necessary to use shielded I/O cables.

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Chapter 1

Hardware Configuration

Your computer system is a high-performance computer system board that supports a Pentium™ CPU running at 75, 90, 100, 120, 133, 150, 166, 180, 200MHz and future Pentium Processor upgradable. The motherboard is equipped with on-board pipelined cache. The motherboard offers floppy drive interface, IDE interface for HDD and CD-ROM Drive, two serial ports and an ECP/EPP capable parallel port. In addition to the hardware features, Windows 95™ ready Plug and Play and Advanced Power Management (APM) are supported.

Features :

Processor

- Intel™ Pentium™ (75/90/100/120/133/150/166/180/200)/
Cyrrix™ 6x86 (100/120/133)/AMD5K86™ (75/90/100)
Intel™ Pentium™ P55C with MMX.

Upgradability

- Pentium Over Drive™ Processor.

Chip Set

- Intel™ 430VX

External Cache

- Direct mapped L2 write back cache.
- 256/512KB on-board Synchronous Pipelined Burst SRAM.

Memory

- 8MB to 128MB.
- Four 72pins standard SIMMs.
- Fast Page Mode and Extended Data output (EDO).
- SIMMs depth of 512KB, 1MB, 2MB, 4MB and 8MB.
- System BIOS, video BIOS and adapter BIOS shadow.

On-Board I/O

- Support two PCI enhanced IDEs PIO mode 3 and mode 4 HDDs. Twin headers for four IDE devices including IDE HDDs and CD-ROMs.
- Support two FDDs of 360KB, 720KB, 1.2MB, 1.44MB and 2.88MB.
- One ECP/EPP parallel port.
- Two 16550UA UART serial ports.
- Two USB channel
- One PS/2 mouse port (Options).

ExpansionSlot

- Three (3) ISA bus slots (One ISA shared slot).
- Four (4) PCI bus slots (One PCI shared slot).

Power Management

- Support SMM and APM.
- Comply to Energy Star "Green" PC program.

Plug and Play

- Support PnP for DOS and Windows® 3.1 as well as Windows® 95.
- Plug and Play specification 1.1.

PCI

- PCI 2.1 Compliant.

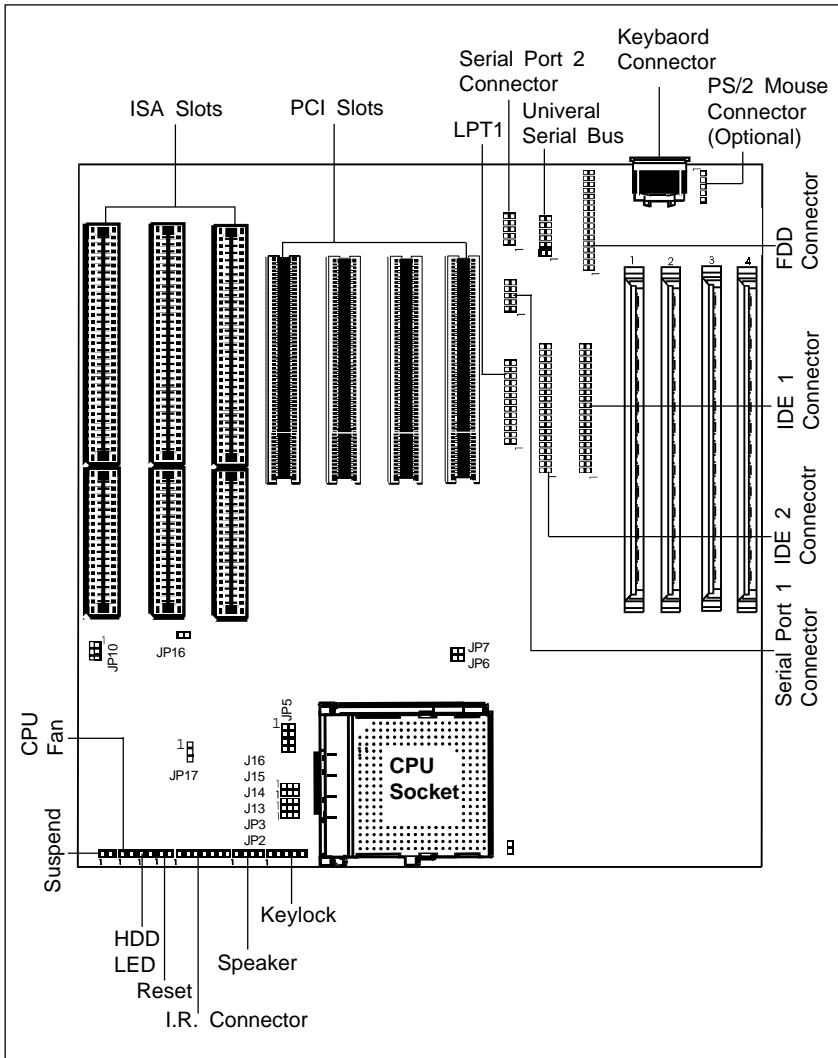
Battery

- On-board lithium, NiCd battery.

Board Size

- 220mm x 230mm

Motherboard Layout



Hardware Setup

This chapter explains how to configure the motherboard's hardware. After you install the motherboard, you can set jumpers, install memory on the motherboard, and make case connections. Refer to this chapter whenever you upgrade or reconfigure your system.

Jumper Settings

CPU Clock

	JP6	JP7	PCI Clock
50MHz	Closed	Closed	25MHz
60MHz	Closed	Open	30MHz
66MHz	Open	Closed	33MHz
*55MHz	Open	Open	27.5MHz

***Only for IMISC618 or CY2254A-2 or ICS9159-14 clock gen**

	JP2	JP3	JP6	JP7
Intel Pentium-75	1-2	1-2	Closed	Closed
Intel Pentium-90	1-2	1-2	Closed	Open
Intel Pentium-100	1-2	1-2	Open	Closed
Intel Pentium-120	1-2	2-3	Closed	Open
Intel Pentium-133	1-2	2-3	Open	Closed
Intel Pentium-150	2-3	2-3	Closed	Open
Intel Pentium-166	2-3	2-3	Open	Closed
Intel Pentium-180	2-3	1-2	Closed	Open
Intel Pentium-200	2-3	1-2	Open	Closed
Cyrix 6x86-P120+ 100MHz	1-2	2-3	Closed	Closed
Cyrix 6x86-P133+ 110MHz	1-2	2-3	Open	Open
Cyrix 6x86-P150+ 120MHz	1-2	2-3	Closed	Open
Cyrix 6x86-P166+ 133MHz	1-2	2-3	Open	Closed
AMD 5K86-P75 (AMD-SSA/5-66)	1-2	2-3	Open	Closed
AMD 5K86-P75 (AMD-SSA/5-75)	1-2	1-2	Closed	Closed
AMD 5K86-P90 (AMD-SSA/5-83)	1-2	1-2	Open	Open
AMD 5K86-P90 (AMD-SSA/5-90)	1-2	1-2	Closed	Open
AMD 5K86-P100 (AMD-SSA/5-100)	1-2	1-2	Open	Closed

Flash BIOS Type Select

JP10	PGM voltage
1-2	5V Flash
2-3	12V Flash

CMOS RAM Clear

	Normal	Clear
JP16	Open	Closed

CPUCore-voltage select

	JP5
2.50V	Open
2.70V	1-2
2.88V	3-4
3.38V (STD)	5-6
3.53V (VRE)	7-8

CPUBus-voltage select

	JP17
3.53V (VRE)	1-2
3.38V (STD)	2-3

Power source selection for the CPU Bus section

	J13, J14, J15, J16
Intel P54C	2-3
Intel P55C	1-2
Cyrix 6x86	2-3
AMD 5k86 (SSA/5)	2-3
AMD 5k86 (dual voltage)	1-2

Memory Configuration

Table 1 shows the possible memory combination. The motherboard will support both Fast Page DRAM or EDO DRAM SIMMs, but they cannot be mixed within the same memory bank. If Fast Page DRAM and EDO DRAM SIMMs are installed in separate banks, each bank will be optimized for maximum performance.

SIMM 1 (Bank 0) SIMM Type (Size)	SIMM 2 (Bank 0) SIMM Type (Size)	SIMM 3 (Bank 1) SIMM Type (Size)	SIMM 4 (Bank 1) SIMM Type (Size)	Total System Memory
Empty	Empty	4 MB	4 MB	8 MB
Empty	Empty	8 MB	8 MB	16 MB
Empty	Empty	16 MB	16 MB	32 MB
Empty	Empty	32 MB	32 MB	64 MB
4 MB	4 MB	Empty	Empty	8 MB
4 MB	4 MB	4 MB	4 MB	16 MB
4 MB	4 MB	8 MB	8 MB	24 MB
4 MB	4 MB	16 MB	16 MB	40 MB
4 MB	4 MB	32 MB	32 MB	72 MB
8 MB	8 MB	Empty	Empty	16 MB
8 MB	8 MB	4 MB	4 MB	24 MB
8 MB	8 MB	8 MB	8 MB	32 MB
8 MB	8 MB	16 MB	16 MB	48 MB
8 MB	8 MB	32 MB	32 MB	80 MB
16 MB	16 MB	Empty	Empty	32 MB
16 MB	16 MB	4 MB	4 MB	40 MB
16 MB	16 MB	8 MB	8 MB	48 MB
16 MB	16 MB	16 MB	16 MB	64 MB
16 MB	16 MB	32 MB	32 MB	96 MB
32 MB	32 MB	Empty	Empty	64 MB
32 MB	32 MB	4 MB	4 MB	72 MB
32 MB	32 MB	8 MB	8 MB	80 MB
32 MB	32 MB	16 MB	16 MB	96 MB
32 MB	32 MB	32 MB	32 MB	128 MB

