

Features:**CPU:**

Supports Intel Pentium P54C / P55C (MMX), 75-266MHz
 Supports Cyrix 6x86-P90-200MHz
 Supports AMD 5K86-75-200MHz, K6PR-166-233MHz
 On board 2.8V/3.0V/3.2V voltage for Intel P55C (MMX) ,
 Intel P55CT CPU , Cyrix M1-L/M2 & AMD K6 CPU.

Chipset:

System Main Chipset: Intel 82371SB, Intel 82437VX, Intel 82438VX
 Enhanced I/O Chipset: LG Prime 3C (SMC669) / RS232 for 2.88MB FDD, Enhanced I/O 16550/ECP/EPP bi-direction and one Infrared port

Memory:

64-bit Memory. Support 4x72-pin SIMM, Bank 0 & Bank 1.
 Support Synchronies DRAM (SDRAM) for Bank 0
 At least, two 72-pins SIMM or one SDRAM installed.
 Support Single side or double side SIMM two banks.
 4MB to 32MB SIMM, 8MB up to 128MB memory. for 72-pin SIMM, and 8MB to 64MB SDRAM memory.

External Cache (L2 Cache):

Supports 256KB / 512KB pipeline burst SRAM onboard

Expansion Slots:

Four 16-bit ISA slots
 Three 64-bit PCI version 2.1 master slots

Enhanced PCI IDE & ISA I/O:

Build in Enhanced PCI local bus IDE Controller.
 Supports 4 PCI IDE devices.
 PIO Mode 4 and DMA Mode 2 and CD-ROM drive.
 BIOS Auto detect HDD.
 PS2 Mouse and Keyboard
 Two USB ports.
 Two serial ports with 16550.
 One Infrared port (IR).
 Supports 360KB-2.88MB floppy disk drive.
 Supports one multi-mode parallel port.
 1. Standard & bi-direction parallel port .
 2. Enhanced parallel port (EPP).
 3. Extended capabilities port (ECP)

System BIOS function:

Award deep green BIOS
 Plug and Play PnP function
 Auto configuration for PCI add-on cards
 I/O Device's power saving, APM, SMI
 Supports flash memory, for ESCD function

Software:

Offers the highest performance for MS/DOS, OS/2, Windows, Windows NT, Windows 95, Novell, UNIX, SCO, XENIX etc.

Attachments:

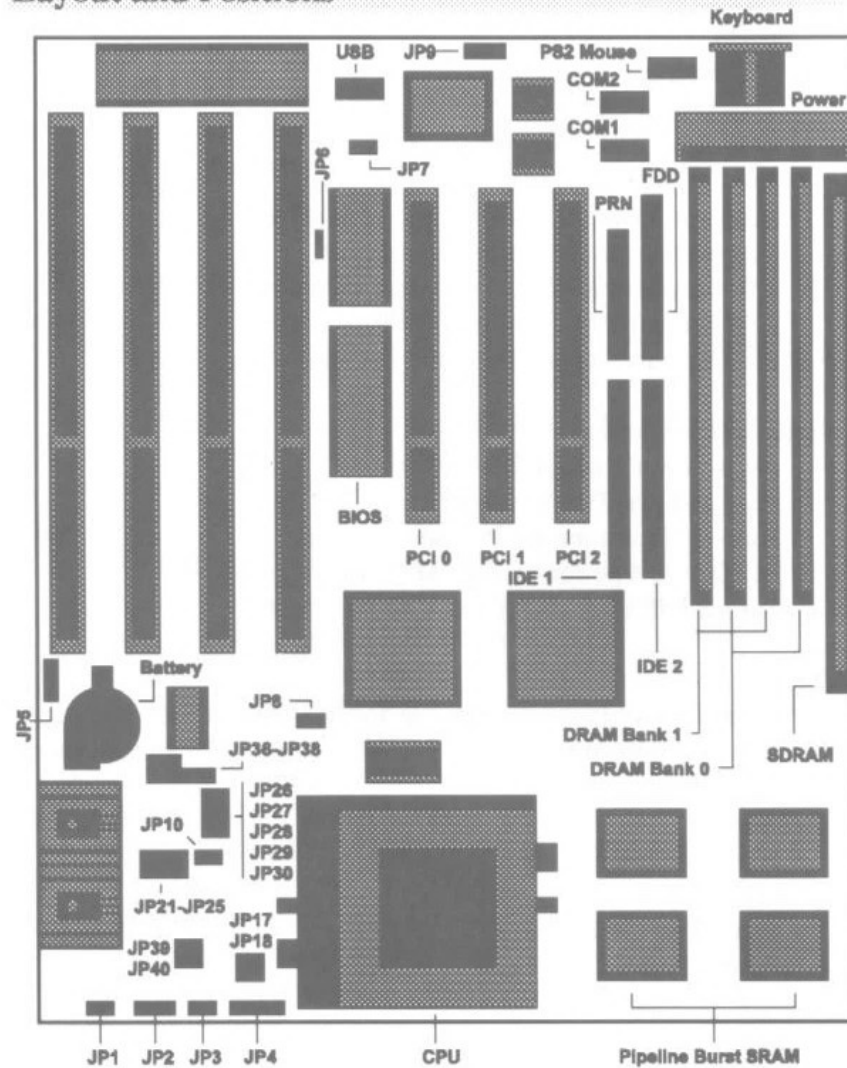
HDD Cable	x1
FDD Cable	x1
Serial Port Cable	x1
Printer Port Cable	x1

Dimension:

22cm x 25.5cm

Chapter 2

Layout and Positions



CPU Installation

Install the CPU

Locate the 321-pin ZIF Socket. Raise the ZIF Socket retaining arm to the open position. Pin Coordinates' A-1 will be the arm corner. Position the notched corner of CPU over the notched corner of the ZIF Socket and align the pins of CPU over the Socket. Carefully insert the CPU into the ZIF Socket and press Firmly. After CPU inserted, press ZIF retaining arm downwards. Examine the installed CPU to ensure it is install in the correct direction and pin aligned properly.

Single Voltage CPU

I/O & Core Voltage	JP21- JP25	JP10	JP39	JP40	JP26- JP28
3.3V - A	Short	Open	Open	Short	X
3.5V - B	Short	Open	Short	Open	X

Dual Voltage CPU

Core Voltage	JP21- JP25	JP10	JP39	JP40	JP26	JP27	JP28
2.8V - C	Open	Short	Open	Short	Short	Open	Open
3.0V - D	Open	Short	Open	Short	Open	Short	Open
3.2V - E	Open	Short	Open	Short	Open	Open	Short

Set the CPU Clock

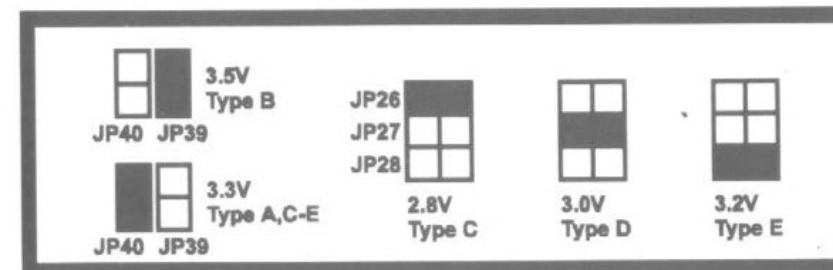
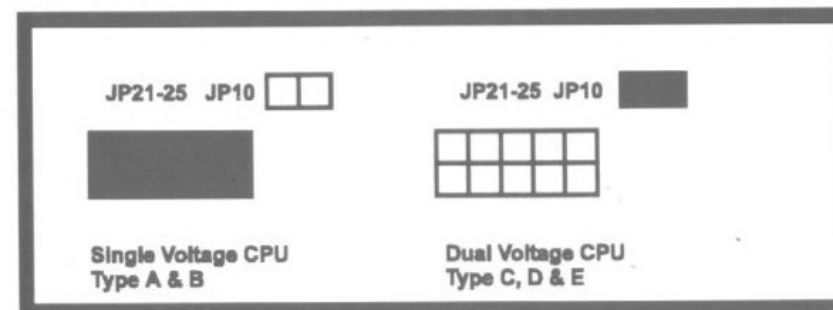
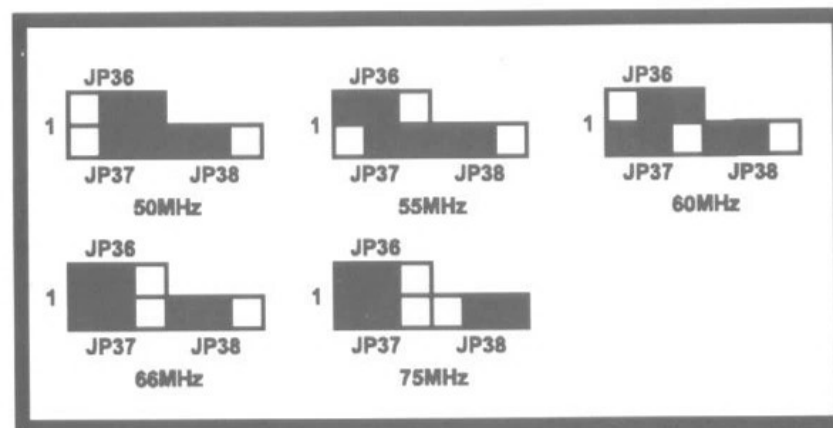
CPU Type	Clock	Multiplier	Voltage
Intel P54C P-90 AMD K5 PR-90/120	60MHz	x 1.5	A
Intel P54C P-100 AMD K5 PR-100/133	66MHz	x 1.5	B
Cyrix 6x86 P-120+	50MHz	x 2	A
Cyrix 6x86 P-133+	55MHz	x 2	A
Intel P54C P-120 Cyrix 6x86 P-150+	60MHz	x 2	A
Intel P54C P-133 Cyrix 6x86 P-166+ Cyrix 6x86L P-166+	66MHz	x 2	A A C
Intel P54C P-150 Cyrix 6x86 P-200+ Cyrix 6x86L P-200+	50MHz 75MHz	x 3 x 2	A A C
Intel P54C P-166 Intel P55C P-166 AMD K5 PR-166 AMD K6 PR2-166	66MHz	x 2.5	A C B D
Intel P54C P-200 Intel P55C P-200 AMD K6 PR2-200	66MHz	x 3	A C D

Set the CPU Multiplier

CPU Clock Multiplier	JP17	JP18
x 1.5	Open	Open
x 2	Close	Open
x 2.5	Close	Close
x 3	Open	Close

Set the CPU Bus Clock (IMI)

CPU Bus Clock	JP36	JP37	JP38
50MHz	2-3	2-3	1-2
55MHz	1-2	2-3	1-2
60MHz	2-3	1-2	1-2
66MHz	1-2	1-2	1-2
75MHz	1-2	1-2	2-3



DRAM Installation

Install System DRAM Memory

The board supports 72-pin Fast Page Mode or EDO SIMMs DRAM whatever single side or double side. There is no jumper nor connector needed for memory configuration. SIMMs can be use parity (x 36) or none parity (x 32). The 70ns fast page SIMM or 60ns EDO DRAM needed, at least. It also has a 168 DIMMS Slots to supports SDRAM (synchronous DRAM).

Bank 0	Bank 1	Total Memory
4MBSS+4MBSS	None	8MB
4MBSS+4MBSS	4MBSS+4MBSS	16MB
8MBDS+8MBDS	None	16MB
8MBDS+8MBDS	4MBSS+4MBSS	24MB
8MBDS+8MBDS	8MBDS+8MBDS	32MB
16MBSS+16MBSS	None	32MB
16MBSS+16MBSS	4MBSS+4MBSS	40MB
16MBSS+16MBSS	8MBDS+8MBDS	48MB
16MBSS+16MBSS	16MBSS+16MBSS	64MB
32MBDS+32MBDS	None	64MB
32MBDS+32MBDS	4MBSS+4MBSS	72MB
32MBDS+32MBDS	8MBDS+8MBDS	80MB
32MBDS+32MBDS	16MBSS+16MBSS	96MB
32MBDS+32MBDS	32MBDS+32MBDS	128MB

SS = Single Side SIMM RAM Module
DS = Double Side SIMM RAM Module

Install IDE, Enhanced I/O Connector & Other jumpers

JP1:	Reset
JP2:	Speaker
JP3:	Hard Disk LED
JP4:	Power LED & Key Lock Connector
JP5:	1-4 External Battery Connector. 2-3 Short for Internal Battery
JP9:	IR Connector
PRN:	Parallel Port
COM1,2:	Serial Ports 1,2
FDD:	Floppy Disk Drive Connector
IDE1:	Primary IDE Connector
IDE2:	Secondary IDE Connector
USB:	USB Ports 1, 2