Specification

- Intel i430 VX PCIset™ chipset
- Supports 75/90/100/120/133/166/180/200/233 MHz Pentium™ CPUs with 321-pin ZIF socket, supports Pentium™ P54C and P55C, Cyrix 6x86, M2, IBM 6x86, and AMD K5/K6 CPUs
- Provides battery Real Time Clock
- Switching power provide CPU core voltage from 2.5V to 3.5V
- Uses four 72-pin EDO/Page Mode SIMM modules auto banking in multiple configuration up to 128MB, provides two 168-pin DIMM to support SDRAM/EDO DRAM/Page Mode DRAM.
- Supports 512KB onboard Pipelined Burst synchronous cache
- Three 16 bits ISA Bus slots and four PCI Local Bus slots, all four PCI slots support Master Mode
- System BIOS supports four IDE harddisk drives without device driver for S/W application and the capacity of each harddisk can be larger than 528MB up to 8.4GB
- Onboard PCI Bus Master IDE interface with two connectors, supports four IDE devices in 2 channels and the PCI IDE Controller, supports PIO Mode 0 to Mode 4 at maximum transfer rate of 16.67MB/s and Bus Master IDE DMA Mode 2
- Onboard super Multi-I/O chip that supports two serial ports with 16550 Fast UART compatible, one parallel port with EPP and ECP capabilities, and one floppy disk drive interface
- Supports PS/2™ mouse and the Universal Serial Bus (USB)
- System BIOS supports NCR810 SCSI BIOS firmware, Green feature function, "Plug and Play" Flash ROM

CE

V5.0

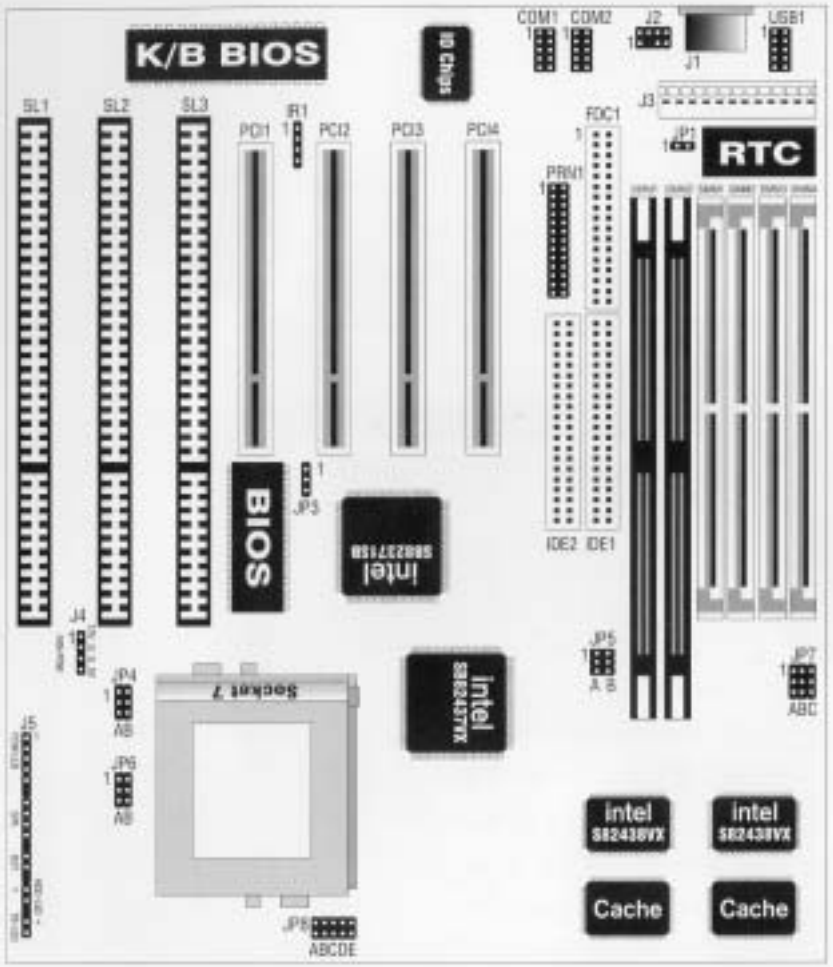
MAINBOARD

PENTIUM®
MMX™

i430 VX PCIset™ Chipset
PCI Bus and ISA Bus

- Features SDRAM Modules
- With PCI IDE & Multi I/O
- Fully Compatible with Intel MMX™ Technology

Component Locations



Quick Installation Guide

1. Set JP7 to select CPU speed
2. Set JP4 to select CPU Internal Clock Speed
3. Set JP8(A, B, C, D, E) to select CPU Core Voltage
4. Insert CPU to CPU socket
5. Set JP6 to select P54C or P55C CPU
6. Insert 72-pin SIMM modules into SIMM1-4 and/or insert 168-pin DIMM modules into DIMM1-2, notice that DIMM2 and SIMM1, 2 or DIMM1 and SIMM3, 4 can not be installed at the same time
7. Set JP5 to select voltage of DIMM module (if DIMM installed).
8. Install mainboard into system chassis
9. Connect keyboard to J1
10. Insert the display card and other peripheral cards (if required) onto the mainboard
11. Connect harddisk(s) to IDE 1 / IDE2 connector(s)
12. Connect floppy drive(s) to FDC1 connector
13. Connect serial port to COM1 and COM2 connectors
14. Connect parallel port to PRN1 connector
15. Connect J5(HDD-LED) to "Hard Disk Busy" LED on the system chassis
16. Connect J5(TB-LED) to Turbo LED on the system chassis
17. Connect J5(RST) to Reset Switch on the system chassis
18. Connect J5(SPK) to Speaker on the system chassis
19. Connect J5(PWR-LED) to keylock and power LED on the system chassis
20. Connect power cord to J3 Power Supply Connector
21. Close system chassis, connect all external cables to your computer.

JP1: CMOS RAM Discharge Jumper

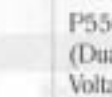
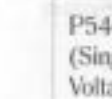
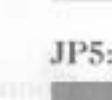
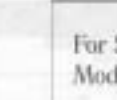
pin	Description
1	CMOS
2	Ground

Description	JP1
Normal Mode	
Clear CMOS	

JP7: CPU Speed Jumpers

CPU Clock	JP7
50MHz	
55MHz	
60MHz	
66MHz	
75MHz	

JP4: CPU Internal Clock Speed Jumpers

Intel	Cyrix	AMD	JP4
1.5X/ 3.5X	Reserved	K5 1.5X/ K6 3.5X	
2.0X	2.0X	Reserved	
2.5X	M2 2.5X	2.5X	
3.0X	M2 3.0X	K6 3.0X	

Jumper Settings

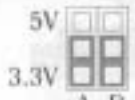
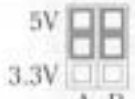
JP8(A,B,C,D,E): CPU Core Voltage Jumpers

Setting		Setting	
3.5V		2.9V	
3.3V		2.8V	
3.2V		2.5V	

JP6: CPU Type Jumper

CPU	Setting	Example
P55C (Dual Voltage)		Intel MMX™, AMD K6, IBM/Cyrix 6x86L, M2
P54C (Single Voltage)		Intel P54C, AMD K5, IBM/Cyrix 6x86

JP5: DIMM Module Voltage Selector

Description	JP5
For SDRAM DIMM Module(3.3V)	
For EDO DRAM/Fast Page DRAM DIMM Module(5V)	

J1: Keyboard Connector

A standard five-pin female DIN keyboard connector is located at the rear of board J1.

pin	Description
1	Keyboard Clock
2	Keyboard Data
3	N.C.
4	Ground
5	+5VDC

J5(HDD-LED): Hard Disk LED Connector

pin	Description
1	Anode(+)
2	Cathode(-), Ground

J5(TB-LED): Turbo LED Connector

pin	Description
1	Anode(+)
2	Cathode(-), Ground

J5(RST): Reset Switch Connector

Setting	Description
Open	Normal Mode
Short	Reset System

J5(PWR-LED): Power LED & Keylock Connector

pin	Description
1	LED Output
2	N.C.
3	Ground
4	Keylock
5	Ground

J5(SPK): Speaker Connector

pin	Description
1	Speaker Out
2	Ground
3	Ground
4	+5VDC

Jumper Settings

J3: Power Supply Connector

pin	Description	pin	Description
1	Power Good	7	Ground
2	+5VDC	8	Ground
3	+12VDC	9	−5VDC
4	−12VDC	10	+5VDC
5	Ground	11	+5VDC
6	Ground	12	+5VDC

JP3: Flash ROM Voltage Jumper

Description	JP3
12 Voltage Flash Programming	1 ■ 12V ■ 5V
5 Voltage Flash Programming	1 □ 12V ■ 5V

IR1: Infra Red

pin	Description
1	IR In
2	Ground
3	IR Out
4	+5VDC

J2: PS/2 Mouse Pin Connector

pin	Description
1	Mouse CLK
2	Ground
3	N.C.
4	Mouse Data
5,6,7	N.C.
8	+5VDC

USB1: 2 Sets of Universal Serial Bus Connector

pin	Description
1,2	+5VDC
3,4	Data−
5,6	Data+
7,8	Ground
9,10	Ground