

# Specification

- **VXPRO-II** Pentium MMX PCI chipset, supports 75~233 MHz Pentium CPUs at 50/60/66/75 MHz external clock speed with P54C and P55C, Cyrix/IBM 6x86/6x86L/6x86MX, IDT C6 and AMD K5/K6 CPUs
- Provides auto switching power from 2.5V to 3.5V for CPU core voltage
- Supports four 72-pin SIMM & two 168-pin DIMM EDO/FPM modules auto banking in multiple configuration up to 128MB, and 512KB onboard Pipelined Burst synchronous cache
- Two 16 bits ISA Bus slots and four PCI Local Bus slots
- System BIOS supports NCR810 SCSI BIOS firmware, "Plug & Play" Flash ROM, and 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
- Supports AMI BIOS Multi-Setup function including WINBIOS Setup and Simple BIOS Setup
- Onboard PCI IDE interface with two connectors supports four IDE devices in 2 channels and the PCI IDE Controller supports PIO Mode 0~4 at maximum transfer rate of 16.67MB/s
- Onboard super Multi-I/O chip supports two serial ports with 16550 Fast UART compatible, one parallel port with EPP and ECP capabilities, and one floppy disk drive interface
- **Onboard Sound Pro supports:**
  - Sound Blaster 16/PRO compatible with stereo voice up to 48KHz sampling rates, **HRTF 3D Positional Audio** Technology.
  - Windows Sound System V2.0 compatible, Accelerates Direct Sound 3D in Win95, and Windows 95/31 & DOS drivers supported.
  - Supports 44.1K **digital audio(SPDIF)IN/OUT**, HSP-23 **Wavetable** synthesizer, Full Duplex 16-bits CODEC with filters, and High quality 3D sound(ON/OFF controllable), and device supports SB16, WSS and Game.
  - Stereo Mixer supports analog mixing from CD-Audio & Line-In, supports digital mixing from Voice, FM/Wave-table & digital CD-Audio.

# MainBoard

## Pentium<sup>®</sup> MMX<sup>™</sup>

### VX PRO-II PCI Chipset

- Onboard **3D Sound Pro** meet PC 98 SPEC and Digital Audio Interface (SPDIF) IN/OUT

# Jumper Settings

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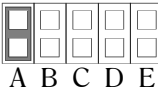
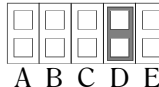



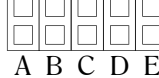
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

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

## JP13(A,B,C,D,E): CPU Core Voltage Selectors

	Setting		Setting
3.5V	 A B C D E	2.9V	 A B C D E
3.3V	 A B C D E	2.8V	 A B C D E
3.2V	 A B C D E	2.5V	 A B C D E



## JP8: Flash ROM Voltage Jumper

Description	JP8
12 Voltage Flash programming	 12V 5V
5 Voltage Flash programming	 12V 5V



## J5: COMS RAM Discharge Jumper

Description	J5
Normal Mode	 1
Clear CMOS	 1

## JP3: Sound Pro Selector

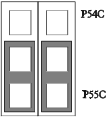
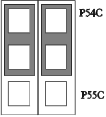
Description	Setting
Enable	
Disable	

## JP4: Microphone Type Selector
















Description	Setting
Special	
Normal	

# Jumper Settings




## JP9: CPU Type Jumper

CPU	Setting	Example
P55C (Dual Voltage)	 P54C P55C	Intel MMX™, AMD K6, IBM/Cyrix 6x86L/ 6x86MX(M2)
P54C (Single Voltage)	 P54C P55C	Intel P54C, AMD K5, IBM/Cyrix 6x86, IDT C6

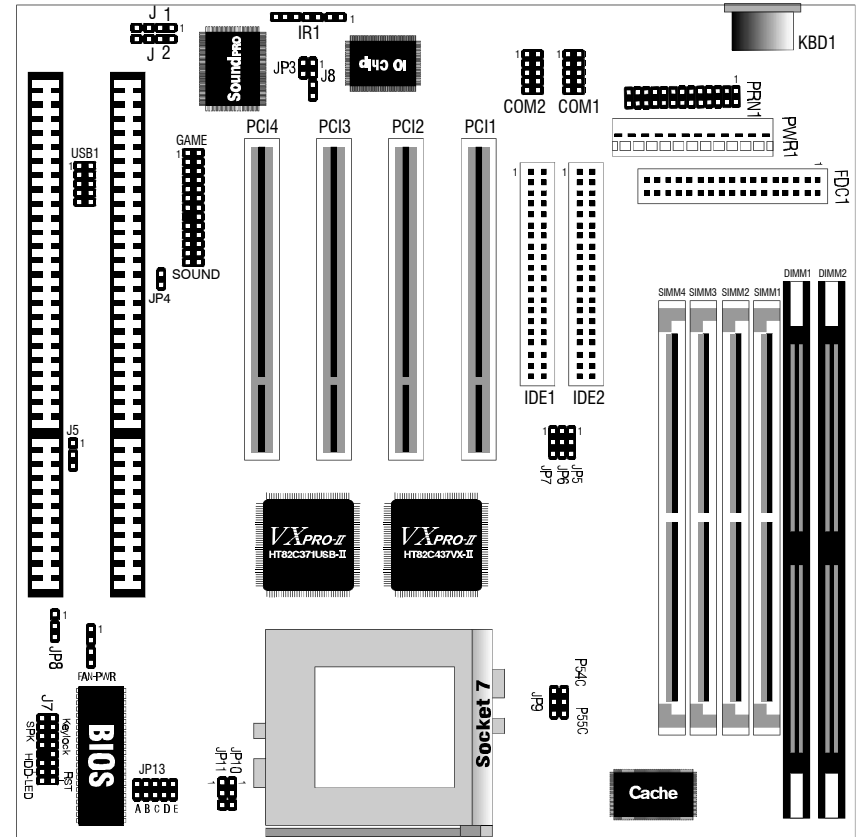
## JP5~7: CPU Speed Jumpers

CPU Clock	JP5	JP6	JP7
50MHz			
55MHz			
60MHz			
66MHz			
75MHz			

## JP10, 11: CPU Internal Clock Speed Jumpers

IDT	Intel	Cyrix	AMD	JP10	JP11
Reserved	1.5X / 3.5X	Reserved	K5 1.5X / K6 3.5X		
Reserved	2.0X	2.0X	Reserved		
Reserved	2.5X	M2 2.5X	2.5X		
C6 3.0X	3.0X	M2 3.0X	K6 3.0X		

# Component Locations



# Quick Installation Guide

1. Set J5 to CMOS RAM discharge jumper (pin 1-2)
2. Set JP5~JP7 to select CPU speed
3. Set JP10, JP11 to select CPU internal clock speed
4. Set JP13(A, B, C, D, E) to select CPU core voltage
5. Insert CPU to CPU socket
6. Insert DRAM modules into SIMM1~4 & DIMM1,2 and notice that DIMM1 and SIMM1,2 or DIMM2 and SIMM3,4 can not be installed at the same time.
7. Install mainboard into system chassis
8. Connect keyboard to KBD1
9. Insert display card and other peripheral cards(if required) onto the mainboard
10. Connect harddisk(s) to IDE1/IDE2
11. Connect floppy drive(s) to FDC1 connector
12. Connect serial ports to COM1 and COM2 connectors
13. Connect parallel port to PRN1 connector
14. Connect J1/J2 to "AUDIO" on the CD-ROM drive
15. Connect J8(1,2) to "DIGITAL AUDIO" on the CD-ROM drive.
16. Connect SOUND & GAME to the Game & Sound ribbon cable/bracket.
17. Connect J7( HDD LED) to "Hard Disk Busy" LED on the system chassis
18. Connect J7( RST) to Reset Switch on the system chassis
19. Connect J7( SPK) to Speaker on the system chassis
20. Connect J7(KEYLOCK) to keylock and power LED on the system chassis
21. Connect power cord to PWR1 Power Supply Connector
22. Close system chassis, connect all external cables to your computer.

# Connectors

COM1/2: Serial Port #1/#2

PRN1: Parallel Port

FDC1: Floppy Disk Port

IDE1/IDE2: Primary/Secondary IDE Ports

KBD1: Keyboard Connector

PWR1: Power Supply Connector

J7(KEYLOCK): Keylock & Power LED Connector

J7(SPK): Speaker Connector

J7(RST): Reset Switch Connector

J7(HDD-LED): Hard Disk LED Connector

USB1: 2 set of USB Connector

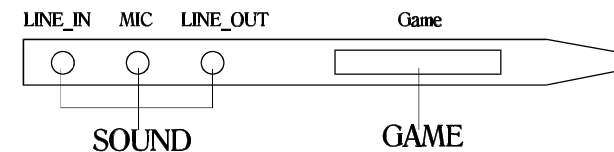
J8(1,2)/J8(3,4): Digital Audio IN/OUT

J1/J2: Analog Audio for Sony/Panasonic  
Connect to CD-ROM drive

SOUND & GAME: Game & Sound Connector

Sound contains Line-in, MIC(Microphone) and Line-out(Speaker).

Game connector is also the Joystic connector. Please connect SOUND & GAME to the Sound & Game ribbon cable/bracket as follows:



IR1: Infra Red

pin	Description	pin	Description
1	RD(Lo)	5	RD(Hi)
2	Ground	6	+5VDC
3	TD	7	Ground
4	+5VDC		

FAN-PWR: Fan Power

pin	Description
1	+12VDC
2	Ground
3	Ground
4	+5VDC