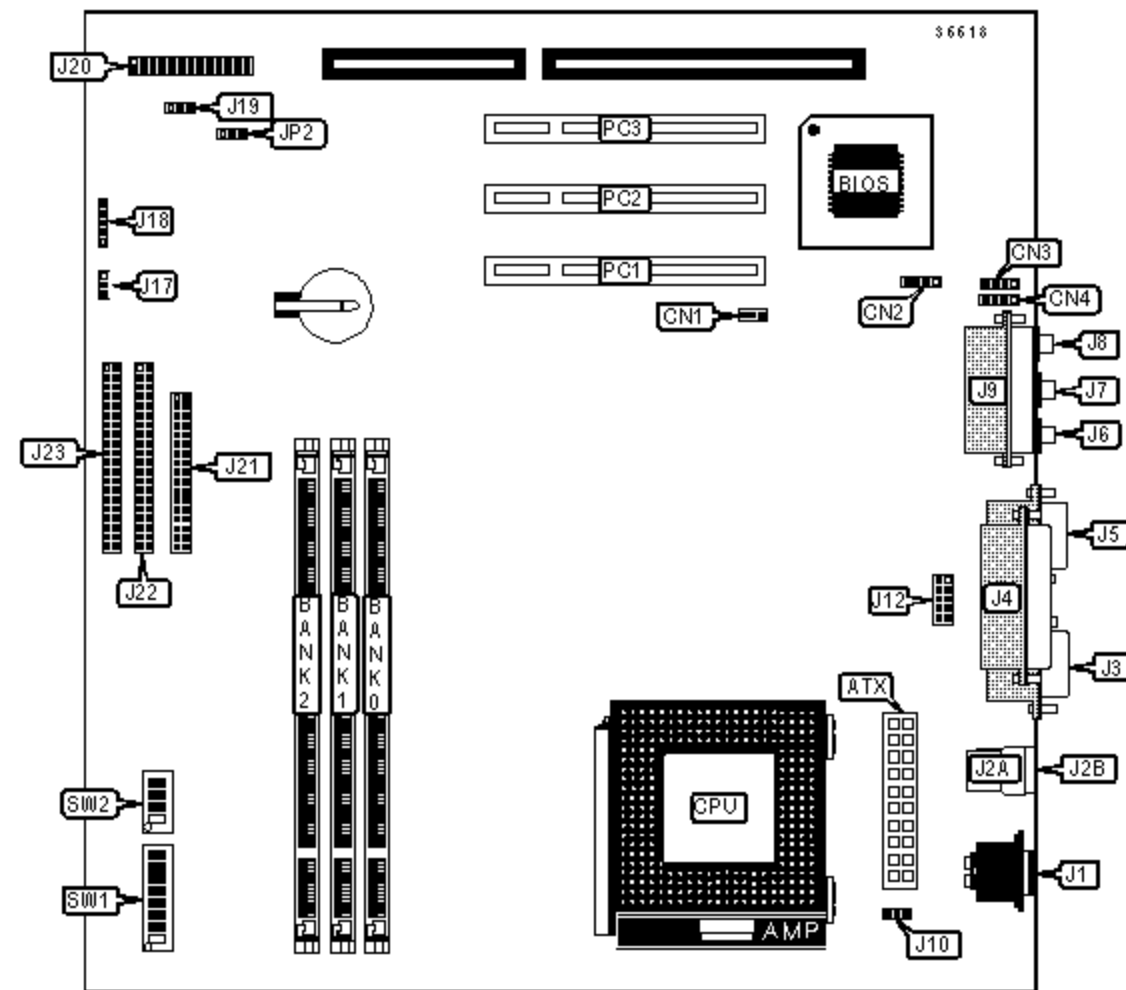


# TMC RESEARCH CORPORATION

## MI5VP4 (VER. 1.0)

<b>Device Type</b>	Mainboard
<b>Processor</b>	CX 6X86/CX 6X86L/CX 686MX/CX M2/AM K5/AM K6/AM K6-2/AM K6-3/IDT WinChip C6/IDT WinChip2/Pentium 120/Pentium MMX
<b>Processor Speed</b>	120/133/150/166/180/200/233/225/266/300/333/350/366/400/433/450/500MHz
<b>Chip Set</b>	VIA
<b>Audio Chip Set</b>	VIA
<b>Maximum Onboard Memory</b>	384MB (EDO & SDRAM supported)
<b>Maximum Audio Memory</b>	Unidentified
<b>Cache</b>	1024/2048KB
<b>BIOS</b>	Award
<b>Dimensions</b>	240mm x 210mm
<b>I/O Options (backplane)</b>	32-bit PCI slots (3), floppy drive interface, game port, serial interface, IDE interfaces (2), parallel port, Green PC connector, PS/2 mouse port, serial port, IR connector, USB connectors (2), ATX power connector, line in (2), line out, microphone in, audio in - CD-ROMs (2)



### CONNECTIONS

Purpose	Location	Purpose	Location
ATX power connector	ATX	System fan power	J13
Auxilliary fan connector	CN1	Audio in - CD-ROM	J14

Line in - internal	CN2	Audio in - CD-ROM	J16
Auxilliary connector	CN3	Wake-on-LAN connector	J17
Audio in - CD-ROM	CN4	IR connector	J18
PS/2 mouse port	J1	Chassis fan power	J19
USB connector 1	J2A	Speaker	J20/Pins 1 - 4
USB connector 2	J2B	Green PC connector	J20/Pins 6 & 16
Serial port 1	J3	ATX Power supply switch	J20/Pins 7 & 17
Parallel port	J4	Reset switch	J20/Pins 9 & 19
VGA port connector	J5	IDE interface LED	J20/Pins 10 & 20
Line out	J6	Power LED	J20/Pins 11 - 15
Line in - external	J7	Floppy drive interface	J21
Microphone in	J8	IDE interface 2	J22
Game port	J9	IDE interface 1	J23
CPU fan power	J10	32-bit PCI slots	PC1 - PC3
Serial interface	J12		

### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	JP2	Pins 1 & 2 closed
	CMOS memory clear	JP2	Pins 2 & 3 closed

### DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
16MB	(1) 2M x 64	None	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64

32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64

Note: Board supports EDO & SDRAM memory.

### CPU SPEED SELECTION (CYRIX MII)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
266MHz	100MHz	2x	On	Off	Off	On	On	On	Off
300MHz	66MHz	3.5x	Off	Off	Off	On	Off	Off	Off
300MHz	75MHz	3x	Off	On	Off	Off	Off	Off	On

300MHz	83MHz	2.5x	On	On	Off	Off	On	Off	On
300MHz	90MHz	2.5x	On	On	Off	On	On	Off	Off
333MHz	83MHz	3x	Off	On	Off	Off	On	Off	On
350MHz	90MHz	3x	Off	On	Off	On	On	Off	Off
366MHz	90MHz	3.5x	Off	Off	Off	On	On	Off	Off
380MHz	100MHz	3x	Off	On	Off	On	On	On	Off
400MHz	95MHz	3.5x	Off	Off	Off	Off	On	On	Off

**CPU SPEED SELECTION (AMD K6)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
233MHz	66MHz	3.5x	Off	Off	Off	On	Off	Off	Off
266MHz	66MHz	4x	On	Off	On	On	Off	Off	Off
300MHz	66MHz	4.5x	On	On	On	On	Off	Off	Off

**CPU SPEED SELECTION (AMD K6-2)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
300MHz	66MHz	4.5x	On	On	On	On	Off	Off	Off
300MHz	100MHz	3x	Off	On	Off	On	On	On	Off
333MHz	66MHz	5x	Off	On	On	On	Off	Off	Off
350MHz	100MHz	3.5x	Off	Off	Off	On	On	On	Off
366MHz	66MHz	5.5x	Off	Off	On	On	Off	Off	Off
380MHz	95MHz	4x	On	Off	On	Off	On	On	Off
400MHz	100MHz	4x	On	Off	On	On	On	On	Off
450MHz	100MHz	4.5x	On	On	On	On	On	On	Off
475MHz	95MHz	5x	Off	On	On	Off	On	On	Off

**CPU SPEED SELECTION (AMD K6-3)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
400MHz	100MHz	4x	On	Off	On	On	On	On	Off
450MHz	100MHz	4.5x	On	On	On	On	On	On	Off
475MHz	95MHz	5x	Off	On	On	Off	On	On	Off

**CPU SPEED SELECTION (WINCHIP-C6)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
200MHz	66MHz	3x	Off	On	Off	On	Off	Off	Off
225MHz	75MHz	3x	Off	On	Off	Off	Off	Off	On
233MHz	66MHz	3x	On	Off	On	On	Off	Off	Off
266MHz	100MHz	3x	Off	On	On	On	On	On	Off
300MHz	100MHz	2.5x	On	On	Off	On	On	On	On

**CPU SPEED SELECTION (WINCHIP2)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
200MHz	66MHz	3x	Off	On	Off	On	Off	Off	Off
225MHz	75MHz	3x	Off	On	Off	Off	Off	Off	On
233MHz	66MHz	3x	On	Off	On	On	Off	Off	Off
266MHz	100MHz	3x	Off	On	On	On	On	On	Off
300MHz	100MHz	2.5x	On	On	Off	On	On	On	On

**CPU SPEED SELECTION (PENTIUM MMX)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
200MHz	66MHz	3x	Off	On	Off	On	Off	Off	Off
233MHz	66MHz	3.5x	Off	Off	Off	On	Off	Off	Off

**CPU VOLTAGE SELECTION**

<b>Voltage</b>	<b>SW1/4</b>	<b>SW1/5</b>	<b>SW1/6</b>	<b>SW1/7</b>	<b>SW1/8</b>
2.1V	On	Off	Off	Off	Off
2.2V	Off	On	Off	Off	Off
2.3V	On	On	Off	Off	Off
2.4V	Off	Off	On	Off	Off
2.5V	On	Off	On	Off	Off
2.6V	Off	On	On	Off	Off
2.7V	On	On	On	Off	Off
2.8V	Off	Off	Off	On	Off
2.9V	On	Off	Off	On	Off
3.0V	Off	On	Off	On	Off
3.1V	On	On	Off	On	Off
3.2V	Off	Off	On	On	Off
3.3V	On	Off	On	On	Off
3.4V	Off	On	On	On	Off
3.5V	On	On	On	On	Off