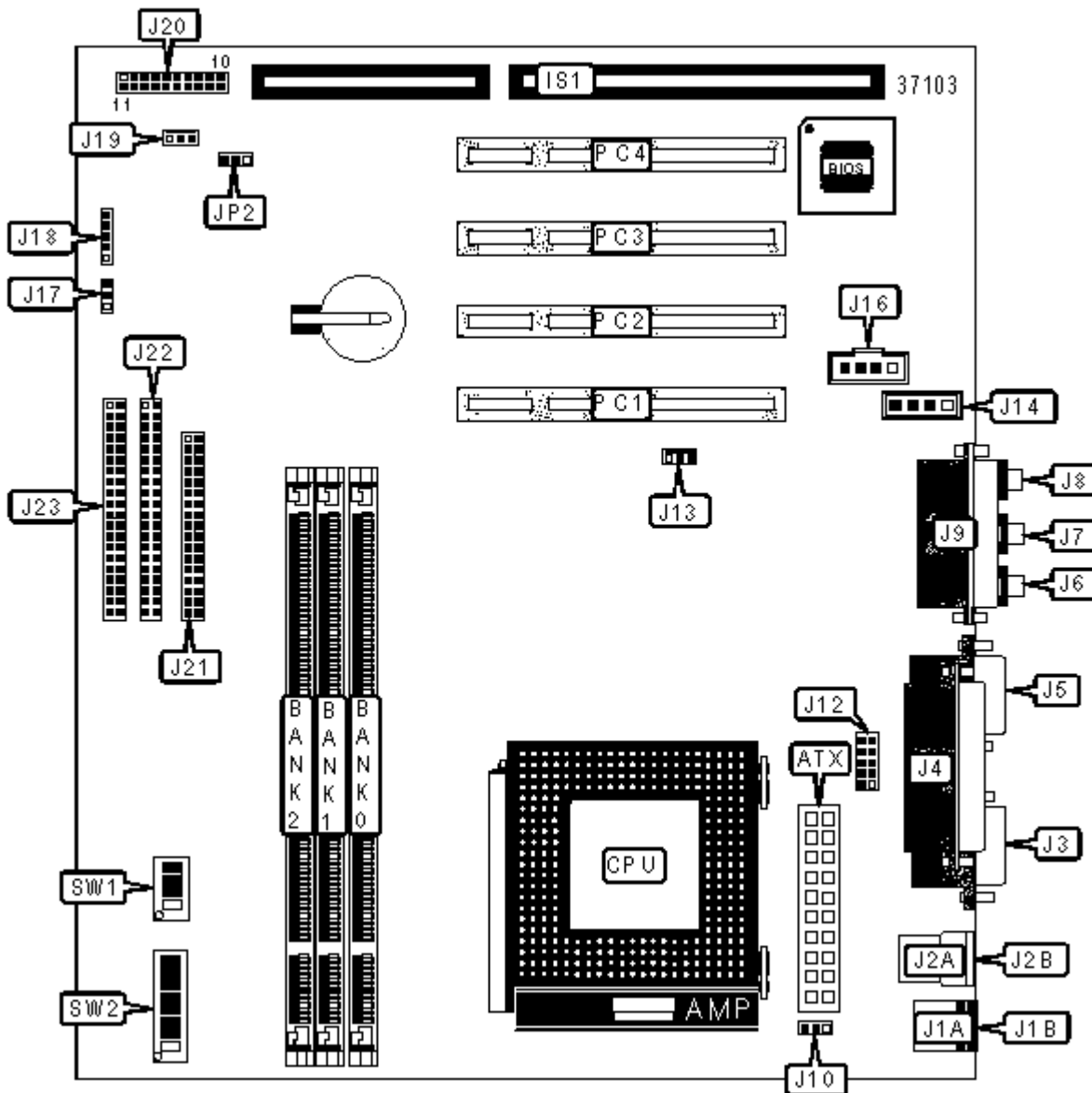


# TMC RESEARCH CORPORATION

MI5VP4 (VER. 1.0B)

<b>Device Type</b>	Mainboard
<b>Processor</b>	CX 6X86/CX 6X86L/CX 686MX/CX MII/AM K5/AM K6/AM K6-2/AM K6-3/IDT WinChip C6/IDT WinChip2/Pentium/Pentium MMX
<b>Processor Speed</b>	120/133/150/166/180/200/233/225/266/300/333/350/366/400/433/450/500/550 MHz
<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</b>	16-bit ISA slot (1), 32-bit PCI slots (4), ATX power connector, Floppy drive interface, Game port, Green PC connector, IDE interfaces (2), IR connector, Parallel port, PS/2 mouse port, PS/2 keyboard port, Serial interface, Serial port, USB connectors (2), line in (2), line out, microphone in, audio in - CD-ROMs (2)



## CONNECTIONS

Purpose	Location	Purpose	Location
ATX power connector	ATX	Audio in - CD-ROM	J14
16-bit ISA slots	IS1	Audio in - CD-ROM	J16
PS/2 mouse port	J1A	Wake-on-LAN connector	J17
PS/2 keyboard port	J1B	IR connector	J18
USB connector 1	J2A	Chassis fan power	J19
USB connector 2	J2B	Speaker	J20/Pins 1 - 4
Serial port 1	J3	Green PC connector	J20/Pins 6 & 16
Parallel port	J4	ATX Power supply switch	J20/Pins 7 & 17
VGA port	J5	Turbo LED	J20/Pins 8 & 18
Line out	J6	Reset switch	J20/Pins 9 & 19
Line in - external	J7	IDE interface LED	J20/Pins 10 & 20
Microphone in	J8	Power LED	J20/Pins 11 - 15
Game port	J9	Floppy drive interface	J21
CPU fan power	J10	IDE interface 2	J22
Serial interface	J12	IDE interface 1	J23
System fan power	J13	32-bit PCI slots	PC1 - PC4

## 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 SDRAM memory.			

CPU SPEED SELECTION (CX 6X86)									
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
120MHz	60MHz	2x	On	Off	Off	Off	Off	Off	Off
133MHz	66MHz	2x	On	Off	Off	On	Off	Off	Off

150MHz	75MHz	2x	On	Off	Off	Off	Off	Off	On
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#### CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
133MHz	66MHz	2x	On	Off	Off	On	Off	Off	Off
150MHz	75MHz	2x	On	Off	Off	Off	Off	Off	On

#### CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
150MHz	60MHz	2.5x	On	On	Off	Off	Off	Off	Off
166MHz	66MHz	2.5x	On	On	Off	On	Off	Off	Off
188MHz	75MHz	2.5x	On	On	Off	Off	Off	Off	On

#### CPU SPEED SELECTION (CX 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 (AM K5)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW2/1	SW2/2	SW2/3	SW2/4
90MHz	60MHz	1.5x	Off	Off	Off	Off	Off	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off	On	Off	Off	Off
150MHz	60MHz	2.5x	On	On	Off	Off	Off	Off	Off
166MHz	66MHz	2.5x	Off	On	On	On	Off	Off	Off

#### CPU SPEED SELECTION (AM 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 (AM 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 (AM 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
500MHz	100MHz	5x	Off	On	On	On	On	On	Off
550MHz	100MHz	5.5x	Off	Off	On	On	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	3.5x	On	Off	On	On	Off	Off	Off
266MHz	100MHz	2.33x	Off	On	On	On	On	On	Off
300MHz	100MHz	2.5x	On	On	Off	On	On	On	Off

#### 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	3.5x	On	Off	On	On	Off	Off	Off
266MHz	100MHz	2.33x	Off	On	On	On	On	On	Off
300MHz	100MHz	2.5x	On	On	Off	On	On	On	Off

#### 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

Voltage	SW2/4	SW2/5	SW2/6	SW2/7	SW2/8
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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