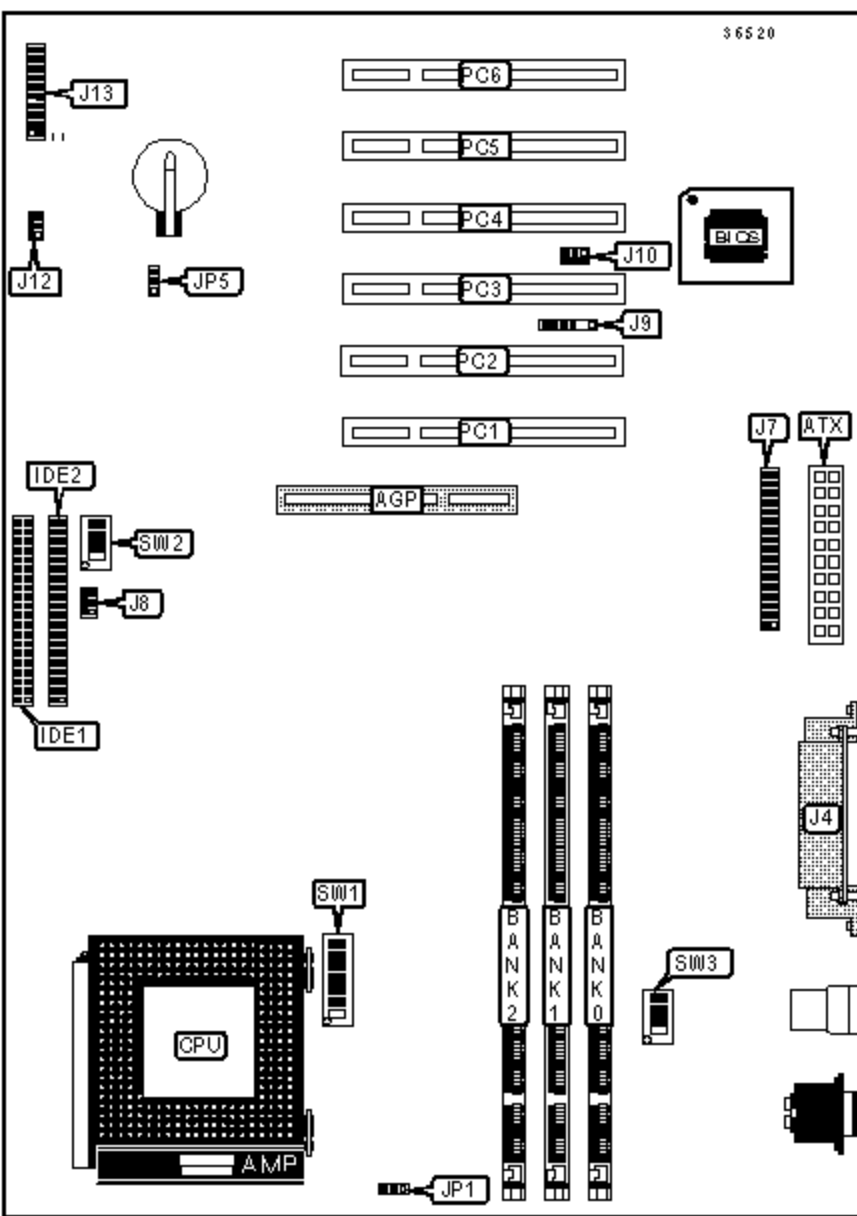


# TMC RESEARCH CORPORATION

## TI5VGF (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-III Pentium/Pentium MMX/IDT WinChip C6, IDT WinChip2
<b>Processor Speed</b>	100/133/150/166/200/225/233/266/300/333/350/366/380/400/433/450/466/475/500MHz
<b>Chip Set</b>	VIA
<b>Maximum Onboard Memory</b>	384MB (EDO & SDRAM supported)
<b>Cache</b>	1024/2048KB
<b>BIOS</b>	Award
<b>Dimensions</b>	305mm x 180mm
<b>I/O Options</b>	32-bit PCI slots (6), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connector, ATX power connector, AGP slot, Wake-on LAN connector



### CONNECTIONS

Purpose	Location	Purpose	Location
ATX power connector	ATX	IR connector	J9

AGP slot	AGP	Wake on LAN connector	J10
IDE interface 1	IDE1	Chassis fan power	J12
IDE interface 2	IDE2	Speaker	J13/pins 1 - 4
PS/2 mouse port	J1	Power LED & keylock	J13/pins 11 - 15
USB connector	J2	CPU overheat LED	J13/pins 6 & 16
Serial port 1	J3	ATX power on	J13/pins 7 & 17
Parallel port	J4	Turbo LED	J13/pins 8 & 18
Serial port 2	J5	Reset switch	J13/pins 9 & 19
Floppy drive interface	J7	IDE interface LED	J13/pins 10 & 20
CPU fan power	J8	32-bit PCI slots	PC1 - PC6

### USER CONFIGURABLE SETTINGS

Function		Label	Position
	CPU clock enabled	JP1	Pins 1 & 2 closed
	AGP clock enabled	JP1	Pins 2 & 3 closed
»	CMOS memory normal operation	JP5	Pins 1 & 2 closed
	CMOS memory clear	JP5	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) 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 6X86, CYRIX 6X86L)**

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
166MHz	66MHz	2x	Off	On	On	Off
200MHz	75MHz	2x	Off	Off	On	Off

**CPU SPEED SELECTION (CYRIX 6X86, CYRIX 6X86L) CONT.**

CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
166MHz	66MHz	2x	On	Off	Off	On

200MHz	75MHz	2x	On	Off	Off	On
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**CPU SPEED SELECTION (CYRIX 6X86MX)**

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
200MHz	66MHz	2.5x	Off	On	On	Off
233MHz	66MHz	3x	Off	On	On	Off
233MHz	75MHz	2.5x	Off	Off	On	Off
266MHz	66MHz	3.5x	Off	On	On	Off

**CPU SPEED SELECTION (CYRIX 6X86MX) CONT.**

CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
200MHz	66MHz	2.5x	On	On	Off	On
233MHz	66MHz	3x	Off	On	Off	On
233MHz	66MHz	3.5x	Off	Off	Off	On
266MHz	75MHz	2.5x	On	On	Off	On

**CPU SPEED SELECTION (CYRIX 6X86MII)**

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
266MHz	83MHz	2.5x	Off	On	Off	Off
333MHz	83MHz	3x	Off	On	Off	Off
366MHz	100MHz	2.5x	Off	Off	Off	On
380MHz	100MHz	3x	Off	Off	Off	On
400MHz	95MHz	3.5x	On	Off	Off	On
433MHz	100MHz	3.5x	Off	Off	Off	On
450MHz	95MHz	4x	On	Off	Off	On
466MHz	100MHz	4x	Off	Off	Off	On

**CPU SPEED SELECTION (CYRIX 6X86MII) CONT.**

CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
266MHz	83MHz	2.5x	On	On	Off	Off
333MHz	83MHz	3x	Off	On	Off	Off
366MHz	100MHz	2.5x	On	On	Off	Off
380MHz	100MHz	3x	Off	On	Off	Off
400MHz	95MHz	3.5x	Off	Off	Off	Off
433MHz	100MHz	3.5x	Off	Off	Off	Off
450MHz	95MHz	4x	On	Off	On	Off
466MHz	100MHz	4x	On	Off	On	Off

**CPU SPEED SELECTION (AMD K5)**

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
100MHz	66MHz	1.5x	Off	On	On	Off
133MHz	66MHz	2x	Off	On	On	Off
166MHz	66MHz	2.5x	Off	On	On	Off

**CPU SPEED SELECTION (AMD K5) CONT.**

CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
100MHz	66MHz	1.5x	Off	Off	Off	On
133MHz	66MHz	2x	On	Off	Off	On
166MHz	66MHz	2.5x	On	On	Off	On

**CPU SPEED SELECTION (AMD K6)**

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
166MHz	66MHz	2.5x	Off	On	On	Off

200MHz	66MHz	3x	Off	On	On	Off
233MHz	66MHz	3.5x	Off	On	On	Off
266MHz	66MHz	4x	Off	On	On	Off
300MHz	66MHz	4.5x	Off	On	On	Off

### CPU SPEED SELECTION (AMD K6) CONT.

CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
166MHz	66MHz	2.5x	On	On	Off	On
200MHz	66MHz	3x	Off	On	Off	On
233MHz	66MHz	3.5x	Off	Off	Off	On
266MHz	66MHz	4x	On	Off	On	On
300MHz	66MHz	4.5x	On	On	On	On

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

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
300MHz	100MHz	3x	Off	Off	Off	On
333MHz	95MHz	3.5x	On	Off	Off	On
350MHz	100MHz	3.5x	Off	Off	Off	On
366MHz	66MHz	5.5x	Off	On	On	Off
380MHz	95MHz	4x	On	Off	Off	On
400MHz	66MHz	6x	Off	On	On	Off
400MHz	100MHz	4x	Off	Off	Off	On
450MHz	100MHz	4.5x	Off	Off	Off	On
475MHz	95MHz	5x	On	Off	Off	On
500MHz	100MHz	5x	Off	Off	Off	On

### CPU SPEED SELECTION (AMD K6-2) CONT.

CPU speed	CPU CLK	Multiplier	SW1/5			
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CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
300MHz	100MHz	3x	Off	On	Off	Off
333MHz	95MHz	3.5x	Off	Off	Off	Off
350MHz	100MHz	3.5x	Off	Off	Off	Off
366MHz	66MHz	5.5x	Off	Off	On	On
380MHz	95MHz	4x	On	Off	On	Off
400MHz	66MHz	6x	On	Off	Off	On
400MHz	100MHz	4x	On	Off	On	Off
450MHz	100MHz	4.5x	On	On	On	Off
475MHz	95MHz	5x	Off	On	On	Off
500MHz	100MHz	5x	Off	On	On	Off

CPU SPEED SELECTION (AMD K6-3)						
CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
400MHz	100MHz	4x	Off	Off	Off	On
450MHz	100MHz	4.5x	Off	Off	Off	On
475MHz	95MHz	5x	On	Off	Off	On
500MHz	100MHz	5x	Off	Off	Off	On

CPU SPEED SELECTION (AMD K6-3) CONT.						
CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
400MHz	100MHz	4x	On	Off	On	Off
450MHz	100MHz	4.5x	On	On	On	Off
475MHz	95MHz	5x	Off	On	On	Off
500MHz	100MHz	5x	Off	On	On	Off

CPU SPEED SELECTION (IDT C6)						
CPU speed	CPU CLK	Multiplier	SW1/1			

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
200MHz	66MHz	3x	Off	On	On	Off
225MHz	75MHz	3.5x	Off	Off	On	Off

**CPU SPEED SELECTION (IDT C6) CONT.**

CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
200MHz	66MHz	3x	Off	On	Off	On
225MHz	75MHz	3.5x	Off	On	Off	On

**CPU SPEED SELECTION (IDT WINCHIP 2)**

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
200MHz	66MHz	3x	Off	On	On	Off
233MHz	66MHz	3.5x	Off	On	On	Off
266MHz	100MHz	2.33x	Off	Off	Off	On
300MHz	100MHz	2.5x	Off	Off	Off	On

**CPU SPEED SELECTION (IDT WINCHIP 2) CONT.**

CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
200MHz	66MHz	3x	Off	On	Off	On
233MHz	66MHz	3.5x	Off	Off	Off	On
266MHz	100MHz	2.33x	Off	On	On	Off
300MHz	100MHz	2.5x	On	On	Off	Off

**CPU SPEED SELECTION (PENTIUM)**

CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
100MHz	66MHz	1.5x	Off	On	On	Off
133MHz	66MHz	2x	Off	On	On	Off



166MHz	66MHz	2.5x	Off	On	On	Off
200MHz	66MHz	3x	Off	On	On	Off

CPU SPEED SELECTION (PENTIUM) CONT.						
CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
100MHz	66MHz	1.5x	Off	Off	Off	On
133MHz	66MHz	2x	On	Off	Off	On
166MHz	66MHz	2.5x	On	On	Off	On
200MHz	66MHz	3x	Off	On	Off	On
233MHz	66MHz	3.5x	Off	Off	Off	On

CPU SPEED SELECTION (PENTIUM MMX)						
CPU speed	CPU CLK	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
166MHz	66MHz	2.5x	Off	On	On	Off
200MHz	66MHz	3x	Off	On	On	Off
233MHz	66MHz	3.5x	Off	On	On	Off

CPU SPEED SELECTION (PENTIUM MMX) CONT.						
CPU speed	CPU CLK	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
166MHz	66MHz	2.5x	On	On	Off	On
200MHz	66MHz	3x	Off	On	Off	On
233MHz	66MHz	3.5x	Off	Off	Off	On

CPU VOLTAGE SELECTION (SINGLE)								
Voltage	SW2/1	SW2/2	SW2/3	SW2/4	SW3/1	SW3/2	SW3/3	SW3/4
3.5V	On	On	On	On	Off	On	On	On

**CPU VOLTAGE SELECTION (DUAL)**

<b>Vcore</b>	<b>Voltage</b>	<b>SW2/1</b>	<b>SW2/2</b>	<b>SW2/3</b>	<b>SW2/4</b>
3.3V	2.0V	Off	Off	Off	Off
3.3V	2.1V	On	Off	Off	Off
3.3V	2.2V	Off	On	Off	Off
3.3V	2.3V	On	On	Off	Off
3.3V	2.4V	Off	Off	On	Off
3.3V	2.5V	On	Off	On	Off
3.3V	2.6V	Off	On	On	Off
3.3V	2.7V	On	On	On	Off
3.3V	2.8V	Off	Off	Off	On
3.3V	2.9V	On	Off	Off	On
3.3V	3.0V	Off	On	Off	On
3.3V	3.1V	On	On	Off	On
3.3V	3.2V	Off	Off	On	On
3.3V	3.3V	On	Off	On	On
3.3V	3.4V	Off	On	On	On
3.3V	3.5V	On	On	On	On

**CPU VOLTAGE SELECTION (DUAL) CONT.**

<b>Vcore</b>	<b>Voltage</b>	<b>SW3/1</b>	<b>SW3/2</b>	<b>SW3/3</b>	<b>SW3/4</b>
3.3V	2.0V	Off	Off	On	On
3.3V	2.1V	Off	Off	On	On
3.3V	2.2V	Off	Off	On	On
3.3V	2.3V	Off	Off	On	On
3.3V	2.4V	Off	Off	On	On
3.3V	2.5V	Off	Off	On	On

3.3V	2.6V	Off	Off	On	On
3.3V	2.7V	Off	Off	On	On
3.3V	2.8V	Off	Off	On	On
3.3V	2.9V	Off	Off	On	On
3.3V	3.0V	Off	Off	On	On
3.3V	3.1V	Off	Off	On	On
3.3V	3.2V	Off	Off	On	On
3.3V	3.3V	Off	Off	On	On
3.3V	3.4V	Off	Off	On	On
3.3V	3.5V	Off	Off	On	On

<b>CPU IO VOLTAGE SELECTION</b>				
<b>Voltage</b>	<b>SW3/1</b>	<b>SW3/2</b>	<b>SW3/3</b>	<b>SW3/4</b>
2.1V	Off	Off	Off	Off
2.2V	On	Off	Off	Off
2.3V	Off	On	Off	Off
2.4V	On	On	Off	Off
2.5V	Off	Off	On	Off
2.6V	On	Off	On	Off
2.7V	Off	On	On	Off
2.8V	On	On	On	Off
2.9V	Off	Off	Off	On
3.0V	On	Off	Off	On
3.1V	Off	On	Off	On
3.2V	On	On	Off	On
3.3V	Off	Off	On	On
3.4V	On	Off	On	On
3.5V	Off	On	On	On

3.6V	On	On	On	On
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