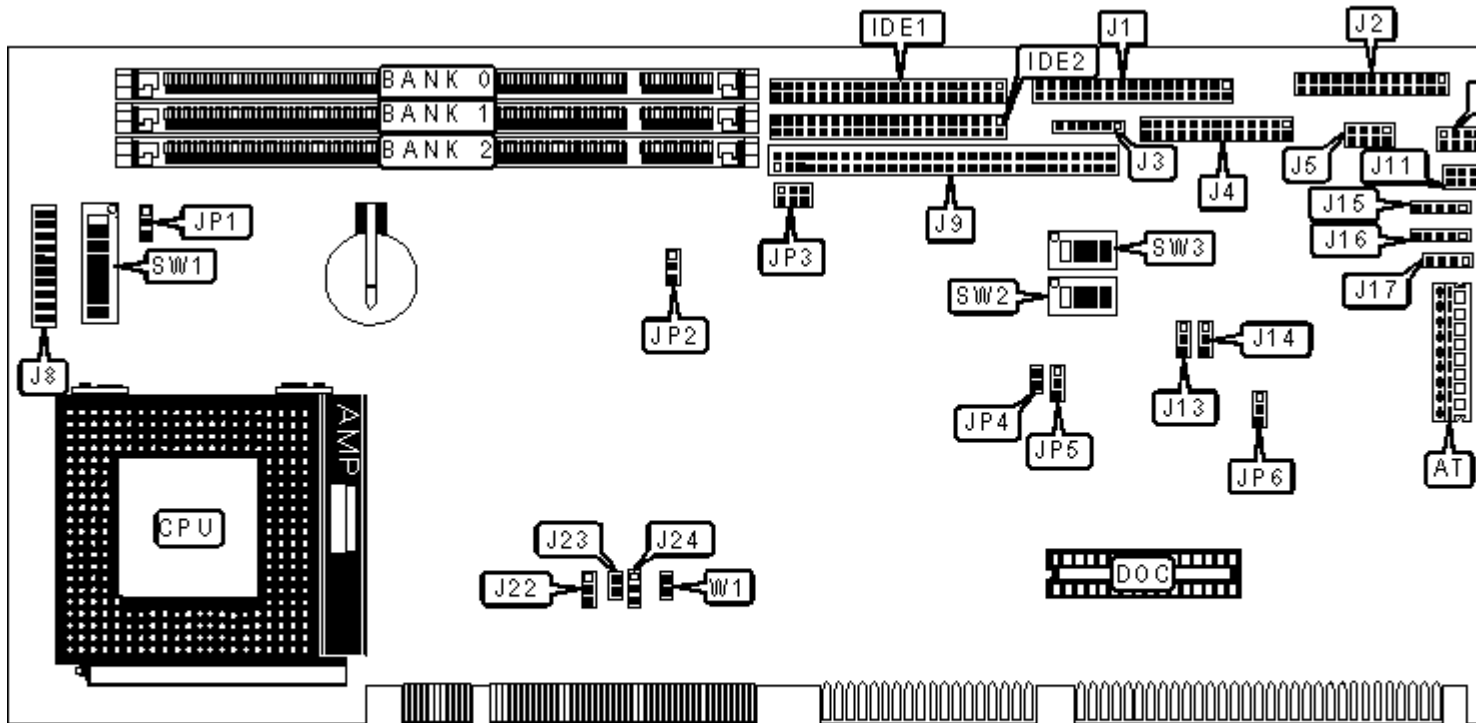


TMC RESEARCH CORPORATION

CI5VGM (VER. 1.0)

Device Type	Single Board Computer
Processor	CX 6X86/CX 6X86L/CX 6X86MX/CX MII/AM K5/AM K6/AM K6-2/IDT C6 IDT Winchip2/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/180/200/225/233/250/266/300/333/350/366/400/450 Mhz
Chip Set	VIA
Video Chip Set	Trident Microsystems, Inc.
Audio Chip Set	Yamaha
Maximum Onboard Memory	384MB (EDO & SDRAM supported)
Cache	1024KB
BIOS	Award
Dimensions	338mm x 122mm
I/O Options	AT power connector, ATX power connector, Ethernet 100BaseT connector, Flat panel connector, Floppy drive interface, IDE interfaces (2), IR connector, Parallel interface, PS/2 keyboard port, PS/2 mouse port, Serial interfaces (2), USB interfaces (2), VGA port
Data Bus	ISA/PCI



CONNECTIONS			
Purpose	Location	Purpose	Location
AT power connector	AT	Power LED & keylock	J8/Pins 11 - 15
DiskOnChip socket	DOC	LCD panel connector	J9

IDE interface 1	IDE1	Unidentified	J13
IDE interface 2	IDE2	Chassis fan power	J14
Floppy drive interface	J1	IR connector	J15
Parallel interface	J2	Keyboard interface	J16
ATX power connector	J3	Mouse interface	J17
Audio connector	J4	PS/2 keyboard port	J19
USB interface	J5	PS/2 mouse port	J20
Serial interface 1	J6	VGA port	J21
Serial interface 2	J7	CPU fan power 1	J22
Speaker	J8/Pins 1 - 4	CPU fan power 2	J23
ATX power on switch	J8/Pins 7 & 17	Ethernet 100BaseT connector	J25
Turbo LED	J8/Pins 8 & 18	Unidentified	LED1
Reset switch	J8/Pins 9 & 19	Unidentified	LED2
IDE interface LED	J8/Pins 10 & 20		

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	J24	Pins 1 & 2 closed
	CMOS memory clear	J24	Pins 2 & 3 closed
»	Factory configured - do not alter	JP1	Unidentified
	SDRAM operating frequency set to CPU clock	JP2	Pins 1 & 2 closed
	SDRAM operating frequency set to AGP clock	JP2	Pins 2 & 3 closed
»	LCD power 5V setting	JP3	Pins 3 & 5, 4 & 6 closed
	LCD power 3.3V setting	JP3	Pins 1 & 3, 2 & 4 closed
	CRT display selection	JP4	Closed
	LCD display selection	JP4	Open
»	Factory configured - do not alter	JP5	Unidentified
»	DiskOnChip BIOS address select D8000-DFFFF	JP6	Pins 2 & 3 closed

	DiskOnChip BIOS address select D0000-D7FFF	JP6	Pins 1 & 2 closed
»	Factory configured - do not alter	SW3/1	Unidentified
»	Factory configured - do not alter	SW3/2	Unidentified
»	Factory configured - do not alter	SW3/3	Unidentified
»	Factory configured - do not alter	SW3/4	Unidentified
	ATX Power supply select	W1	Closed
	AT Power supply select	W1	Open

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 (CX 6X86)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
166MHz	66MHz	2x	Off	On	On	Off	On	Off	Off	On
200MHz	75MHz	2x	Off	Off	On	Off	On	Off	Off	On

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
166MHz	66MHz	2x	Off	On	On	Off	On	Off	Off	On
200MHz	75MHz	2x	Off	Off	On	Off	On	Off	Off	On

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
200MHz	66MHz	2.5x	Off	On	On	Off	On	On	Off	On
233MHz	75MHz	2.5x	Off	Off	On	Off	On	On	Off	On
266MHz	66MHz	3.5x	Off	On	On	Off	Off	Off	Off	On

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
266MHz	66MHz	3.5x	Off	On	On	Off	Off	Off	Off	On

266MHz	83MHz	2.5x	Off	On	Off	Off	On	On	Off	Off
333MHz	83MHz	3x	Off	On	Off	Off	Off	On	Off	Off
333MHz	100MHz	2.5x	Off	Off	Off	On	On	On	Off	Off
366MHz	100MHz	3x	Off	Off	Off	On	Off	On	Off	Off

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
90MHz	60MHz	1.5x	On	On	On	Off	Off	Off	Off	On
100MHz	66MHz	1.5x	Off	On	On	Off	Off	Off	Off	On
133MHz	66MHz	2x	Off	On	On	Off	On	Off	Off	On
166MHz	66MHz	2.5x	Off	On	On	Off	On	On	Off	On

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
166MHz	66MHz	2.5x	Off	On	On	Off	On	On	Off	On
200MHz	66MHz	3x	Off	On	On	Off	Off	On	Off	On
233MHz	66MHz	3.5x	Off	On	On	Off	Off	Off	Off	On
266MHz	66MHz	4x	Off	On	On	Off	On	Off	On	On
300MHz	66MHz	4.5x	Off	On	On	Off	On	On	On	On

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
300MHz	100MHz	3x	Off	Off	Off	On	Off	On	Off	Off
333MHz	95MHz	3.5x	On	Off	Off	On	Off	Off	Off	Off
350MHz	100MHz	3.5x	Off	Off	Off	On	Off	Off	Off	Off
366MHz	66MHz	5.5x	Off	On	On	Off	Off	Off	On	On
380MHz	95MHz	4x	On	Off	Off	On	On	Off	On	Off
400MHz	100MHz	4x	Off	Off	Off	On	On	Off	On	Off

450MHz	100MHz	4.5x	Off	Off	Off	On	On	On	On	Off
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CPU SPEED SELECTION (IDT WINCHIP C6)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
180MHz	60MHz	3x	On	On	On	Off	Off	On	Off	On
200MHz	66MHz	3x	Off	On	On	Off	Off	On	Off	On
225MHz	75MHz	3x	Off	Off	On	Off	Off	On	Off	On

CPU SPEED SELECTION (IDT WINCHIP 2)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
200MHz	66MHz	3x	Off	On	On	Off	Off	On	Off	On
225MHz	75MHz	3x	Off	Off	On	Off	Off	On	Off	On
266MHz	66MHz	4x	Off	On	On	Off	On	Off	On	On

CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
90MHz	60MHz	1.5x	On	On	On	Off	Off	Off	Off	On
100MHz	66MHz	1.5x	Off	On	On	Off	Off	Off	Off	On
120MHz	60MHz	2x	On	On	On	Off	On	Off	Off	On
133MHz	66MHz	2x	Off	On	On	Off	On	Off	Off	On
150MHz	60MHz	2.5x	On	On	On	Off	On	On	Off	On
166MHz	66MHz	2.5x	Off	On	On	Off	On	On	Off	On
200MHz	66MHz	3x	Off	On	On	Off	Off	On	Off	On

CPU SPEED SELECTION (PENTIUM MMX)

CPU speed	Clock speed	Multiplier	SW1/ 1	SW1/ 2	SW1/ 3	SW1/ 4	SW1/ 5	SW1/ 6	SW1/ 7	SW1/ 8
166MHz	66MHz	2.5x	Off	On	On	Off	On	On	Off	On

200MHz	66MHz	3x	Off	On	On	Off	Off	On	Off	On
233MHz	66MHz	3.5x	Off	On	On	Off	Off	Off	Off	On

CPU VOLTAGE SELECTION (SINGLE)

Voltage	SW2/1	SW2/2	SW2/3	SW2/4
3.5v	On	On	On	On

CPU VOLTAGE SELECTION (DUAL)

Voltage	SW2/1	SW2/2	SW2/3	SW2/4
2v	Off	Off	Off	Off
2.1v	On	Off	Off	Off
2.2v	Off	On	Off	Off
2.3v	On	On	Off	Off
2.4v	Off	Off	On	Off
2.5v	On	Off	On	Off
2.6v	Off	On	On	Off
2.7v	On	On	On	Off
2.8v	Off	Off	Off	On
2.9v	On	Off	Off	On
3v	Off	On	Off	On
3.1v	On	On	Off	On
3.2v	Off	Off	On	On
3.3v	On	Off	On	On
3.4v	Off	On	On	On

SERIAL INTERFACE 1 PROTOCOL SELECTION

Note: COM1 uses RS232 protocol only.

SERIAL INTERFACE 2 PROTOCOL SELECTION

Protocol	J11
RS-232	Open
RS-422	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8, 11 & 12, 15 & 16, 17 & 18, 19 & 20, 23 & 24 closed
RS-485	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8, 9 & 10, 11 & 12, 13 & 14, 15 & 16, 17 & 18, 19 & 20, 21 & 22, 23 & 24 closed