TMC RESEARCH CORPORATION

AI5VG+ (100MHZ) (VER. 1.0B)

Configuration
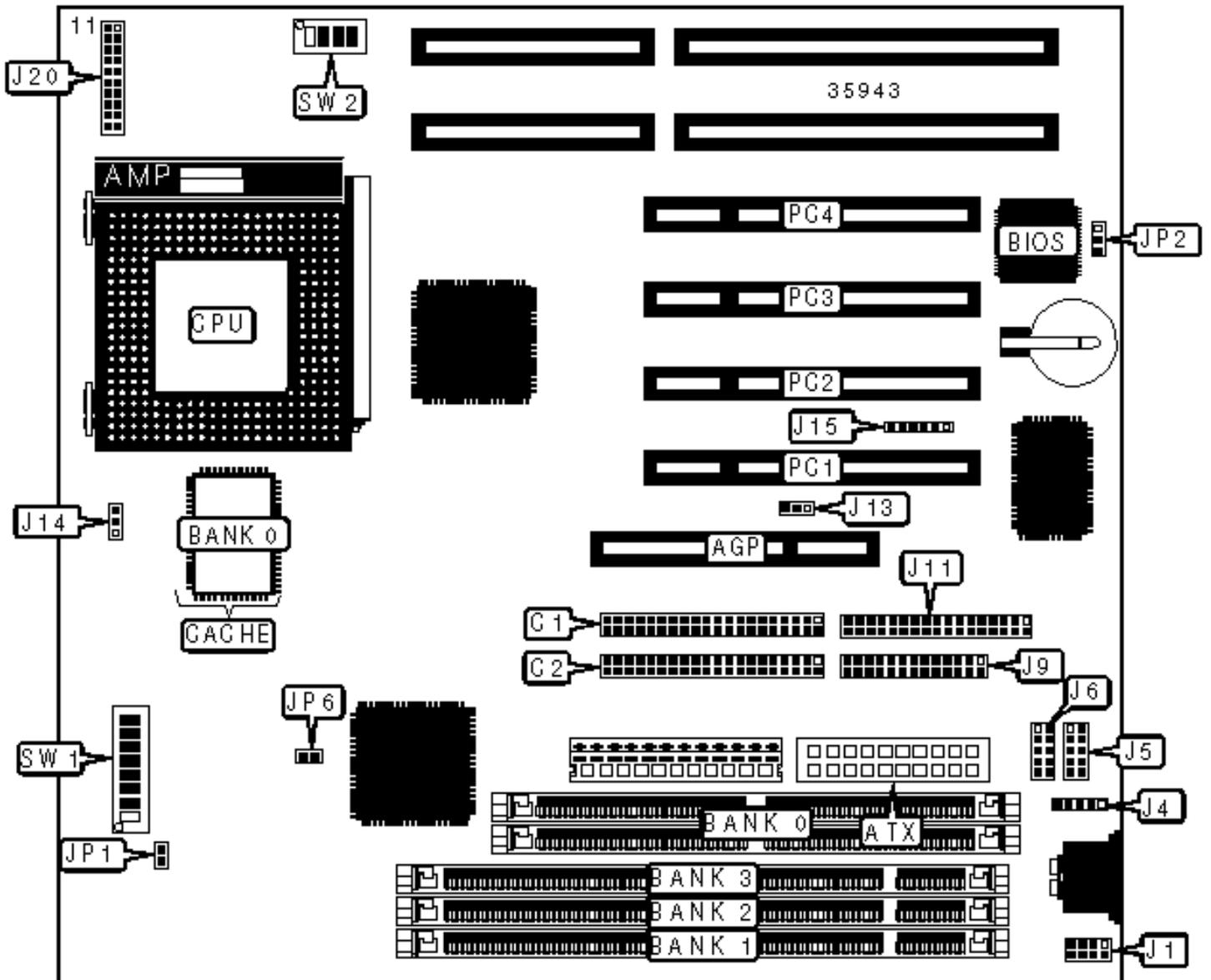
CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Wake on LAN connector	J13
ATX power connector	ATX	CPU fan power	J14
IDE interface 1	C1	IR connector	J15
IDE interface 2	C2	Speaker	J20/pins 1 - 4
USB connector	J1	Soft off power supply	J20/pins 7 & 17
PS/2 mouse interface	J4	Turbo LED	J20/pins 8 & 18
Serial port 2	J5	Reset switch	J20/pins 9 & 19
Serial port 1	J6	IDE interface LED	J20/pins 10 & 20
Parallel port	J9	Power LED & keylock	J20/pins 11 - 15
Floppy drive interface	J11	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
	System frequency divider 95/100MHz	JP6	Closed
	System frequency divider 60/66/75/83MHz	JP6	Open

SIMM CONFIGURATION

Size	Bank 0
8MB	(2) 1M x 36
16MB	(2) 2M x 36
32MB	(2) 4M x 36
64MB	(2) 8M x 36

128MB	(2) 16M x 36

Note: Board accepts EDO memory.

DIMM CONFIGURATION

Size	Bank 1	Bank 2	Bank 3
8MB	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64	None
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64

DIMM CONFIGURATION (CON'T)

Size	Bank 1	Bank 2	Bank 3
48MB	(1) 4M x 64	(1) 2M x 64	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None

72MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
88MB	(1) 8M x 64	(1) 2M x 64	(1) 1M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
104MB	(1) 8M x 64	(1) 4M x 64	(1) 1M x 64
112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64	None
136MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
152MB	(1) 16M x 64	(1) 2M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
168MB	(1) 16M x 64	(1) 4M x 64	(1) 1M x 64
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None

192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
200MB	(1) 16M x 64	(1) 8M x 64	(1) 1M x 64
208MB	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
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 accepts SDRAM memory.			

DIMM VOLTAGE CONFIGURATION		
Setting	JP1	SW1/4
CPU clock	Open	On
AGP clock	Closed	Off

CACHE CONFIGURATION	
Size	Bank 0
512KB	(1) 64K x 64

CPU SPEED SELECTION (CX 6X86)						
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
166MHz	66MHz	2x	Off	On	On	N/A
200MHz	75MHz	2x	Off	Off	On	N/A

CPU SPEED SELECTION (CX 6X86, CON'T)						
CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
166MHz	66MHz	2x	On	Off	Off	On
200MHz	75MHz	2x	On	Off	Off	On

CPU SPEED SELECTION (CX 6X86L)

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

CPU SPEED SELECTION (CX 6X86L, CON'T)

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

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
200MHz	66MHz	2.5x	Off	On	On	N/A
233MHz	66MHz	3x	Off	On	On	N/A
266MHz	66MHz	3.5x	Off	On	On	N/A
233MHz	75MHz	2.5x	Off	Off	On	N/A
266MHz	83MHz	2.5x	Off	On	Off	N/A
300MHz	83MHz	3x	Off	On	Off	N/A
333MHz	100MHz	2.5x	Off	Off	Off	N/A
366MHz	100MHz	3x	Off	Off	Off	N/A

CPU SPEED SELECTION (CX 6X86MX, CON'T)

CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
200MHz	66MHz	2.5x	On	On	Off	On
233MHz	66MHz	3x	Off	On	Off	On

266MHz	66MHz	3.5x	Off	Off	Off	On
233MHz	75MHz	2.5x	On	On	Off	On
266MHz	83MHz	2.5x	On	On	Off	On
300MHz	83MHz	3x	Off	On	Off	On
333MHz	100MHz	2.5x	On	On	Off	On
366MHz	100MHz	3x	Off	On	Off	On

CPU SPEED SELECTION (AM K5)						
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
90MHz	60MHz	1.5x	On	On	On	N/A
100MHz	66MHz	1.5x	Off	On	On	N/A
133MHz	66MHz	2x	Off	On	On	N/A
166MHz	66MHz	2.5x	Off	On	On	N/A

CPU SPEED SELECTION (AM K5, CON'T)						
CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
90MHz	60MHz	1.5x	Off	Off	Off	On
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 (AM K6)						
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
166MHz	66MHz	2.5x	Off	On	On	N/A
200MHz	66MHz	3x	Off	On	On	N/A
233MHz	66MHz	3.5x	Off	On	On	N/A

266MHz	66MHz	4x	Off	On	On	N/A
300MHz	66MHz	4.5x	Off	On	On	N/A

CPU SPEED SELECTION (AM K6, CON'T)

CPU speed	Clock speed	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 (AM K6-2)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
300MHz	100MHz	3x	Off	Off	Off	N/A
333MHz	95MHz	3.5x	On	Off	Off	N/A
350MHz	100MHz	3.5x	Off	Off	Off	N/A
400MHz	100MHz	4x	Off	Off	Off	N/A

CPU SPEED SELECTION (AM K6-2, CON'T)

CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
300MHz	100MHz	3x	Off	On	Off	On
333MHz	95MHz	3.5x	Off	Off	Off	Off
350MHz	100MHz	3.5x	Off	Off	Off	Off
400MHz	100MHz	4x	On	Off	On	Off

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
180MHz	60MHz	3x	On	On	On	Off
200MHz	66MHz	3x	Off	On	On	Off
225MHz	75MHz	3x	Off	Off	On	Off
266MHz	66MHz	4x	Off	On	On	Off

CPU SPEED SELECTION (IDT C6, CON'T)						
CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
180MHz	60MHz	3x	Off	On	Off	On
200MHz	66MHz	3x	Off	On	Off	On
225MHz	75MHz	3x	Off	On	Off	On
266MHz	66MHz	4x	On	Off	On	On

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

CPU SPEED SELECTION (INTEL, CON'T)						
CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
90MHz	60MHz	1.5x	Off	Off	Off	On

100MHz	66MHz	1.5x	Off	Off	Off	On
120MHz	60MHz	2x	On	Off	Off	On
133MHz	66MHz	2x	On	Off	Off	On
150MHz	60MHz	2.5x	On	On	Off	On
166MHz	66MHz	2.5x	On	On	Off	On
200MHz	66MHz	3x	Off	On	Off	On

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
166MHz	66MHz	2.5x	Off	On	On	N/A
200MHz	66MHz	3x	Off	On	On	N/A
233MHz	66MHz	3.5x	Off	On	On	Off

CPU SPEED SELECTION (INTEL MMX, CON'T)

CPU speed	Clock speed	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
3.5v	On	On	On	On

CPU VOLTAGE SELECTION (DUAL)

Voltage	V core	SW2/1	SW2/2	SW2/3	SW2/4
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