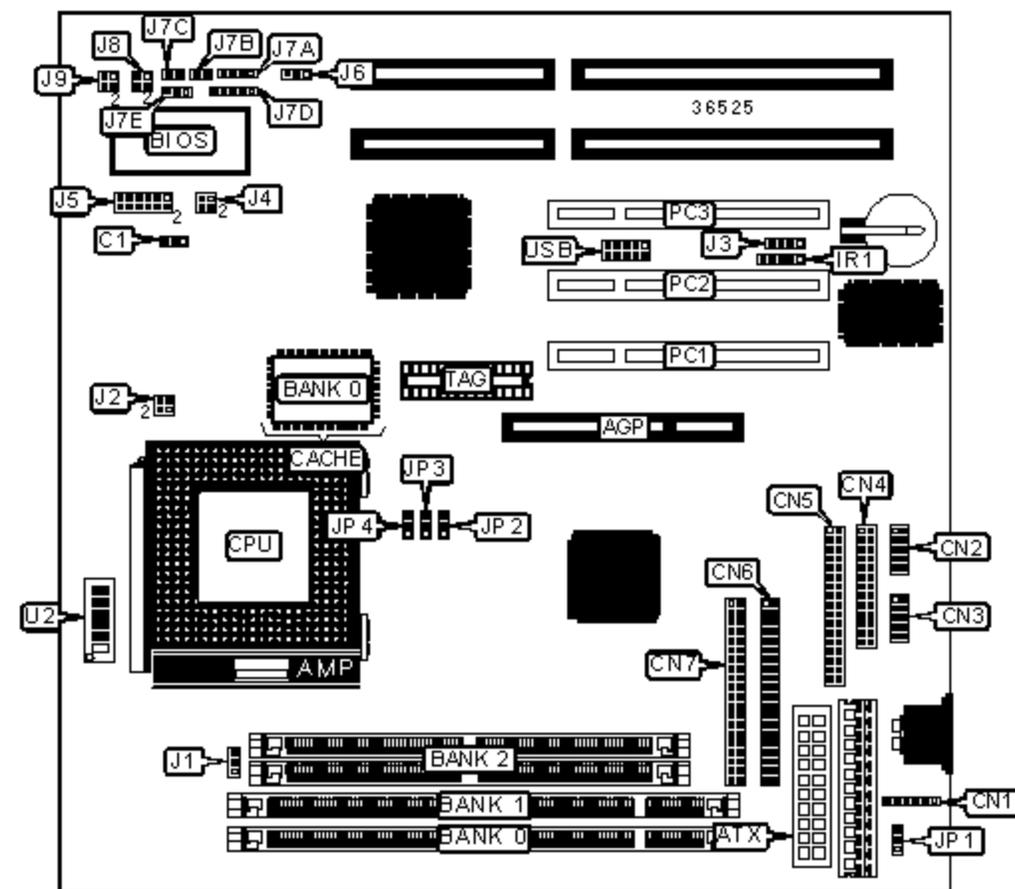


J-MARK COMPUTER CORPORATION

J-598B

Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86MX/IBM 6X86MX/IDT C6/AM K5/ AM K6/AM K6-2/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/200/233/266/300/333MHz
Chip Set	VIA Apollo
Maximum Onboard Memory	384MB (EDO & SDRAM supported)
Cache	512KB
BIOS	Unidentified
Dimensions	220mm x 220mm
I/O Options	32-bit PCI slots (3), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), IR connector, USB connector, ATX power connector, AGP slot



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	IR connector	IR1
ATX power connector	ATX	Speaker	J7A
Chassis fan power	C1	Reset switch	J7B
PS/2 mouse interface	CN1	Turbo LED	J7C

Serial port 1	CN2	Power LED & keylock	J7D
Serial port 2	CN3	Turbo switch	J7E
Parallel port	CN4	IDE interface LED	J8/pins 2 & 4
Floppy drive interface	CN5	Soft off power supply	J9/pins 2 & 4
IDE interface 2	CN6	32-bit PCI slots	PC1 – PC3
IDE interface 1	CN7	USB connector	USB

USER CONFIGURABLE SETTINGS			
Function		Label	Position
»	Factory configured - do not alter	J2	Unidentified
»	CMOS memory normal operation	J3	Pins 2 & 3 closed
	CMOS memory clear	J3	Pins 3 & 4 closed
»	Factory configured - do not alter	J4	Unidentified
»	Factory configured - do not alter	J6	Unidentified
»	Factory configured - do not alter	JP1	Unidentified

SIMM CONFIGURATION	
Size	Bank 2
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 0	Bank 1
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64

24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None
32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 16M x 64	None
128MB	(1) 8M x 64	(1) 8M x 64
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64
Note: Board accepts SDRAM memory.		

SDRAM CLOCK CONFIGURATION		
Setting	J1	JP2
SDRAM clock = AGP clock	Pins 1 & 2 closed	Pins 1 & 2 closed
SDRAM clock = CPU clock	Pins 2 & 3 closed	Pins 2 & 3 closed

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

CPU SPEED SELECTION (CX 6X86)						
CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2

150MHz	60MHz	2x	2 & 3	Open	On	Off
166MHz	66MHz	2x	2 & 3	Open	On	Off
200MHz	75MHz	2x	1 & 2	1 & 2	On	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86, CON'T)

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
150MHz	60MHz	2x	Off	On	On	On
166MHz	66MHz	2x	Off	Off	On	On
200MHz	75MHz	2x	Off	On	On	Off

CPU SPEED SELECTION (IBM 6X86)

CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2
150MHz	60MHz	2x	2 & 3	Open	On	Off
166MHz	66MHz	2x	2 & 3	Open	On	Off
200MHz	75MHz	2x	1 & 2	1 & 2	On	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86, CON'T)

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
150MHz	60MHz	2x	Off	On	On	On
166MHz	66MHz	2x	Off	Off	On	On
200MHz	75MHz	2x	Off	On	On	Off

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2
166MHz	60MHz	2.5x	2 & 3	Open	On	On
200MHz	66MHz	2.5x	2 & 3	Open	On	On
200MHz	75MHz	2x	1 & 2	1 & 2	On	Off

233MHz	66MHz	3x	Open	Open	On	On
266MHz	66MHz	4x	1 & 2	1 & 2	On	On
300MHz	66MHz	3.5x	2 & 3	Open	Off	Off
333MHz	66MHz	5x	1 & 2	1 & 2	Off	Off

Note: Pins designated should be in the closed position.

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

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
166MHz	60MHz	2.5x	Off	On	On	On
200MHz	66MHz	2.5x	Off	Off	On	On
200MHz	75MHz	2x	Off	On	On	Off
233MHz	66MHz	3x	Off	Off	On	On
266MHz	66MHz	4x	Off	Off	On	Off
300MHz	66MHz	3.5x	Off	Off	On	On
333MHz	66MHz	5x	Off	Off	On	Off

CPU SPEED SELECTION (IBM 6X86MX)

CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2
166MHz	60MHz	2.5x	2 & 3	Open	On	On
200MHz	66MHz	2.5x	2 & 3	Open	On	On
233MHz	66MHz	3x	Open	Open	On	On
300MHz	66MHz	3.5x	2 & 3	Open	Off	Off

Note: Pins designated should be in the closed position.

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

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
166MHz	60MHz	2.5x	Off	On	On	On
200MHz	66MHz	2.5x	Off	Off	On	On
233MHz	66MHz	3x	Off	Off	On	On
300MHz	66MHz	3.5x	Off	Off	On	On

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2
150MHz	75MHz	2x	1 & 2	1 & 2	On	Off
180MHz	60MHz	3x	2 & 3	Open	Off	On

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IDT C6, CON'T)

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
150MHz	75MHz	2x	Off	On	On	Off
180MHz	60MHz	3x	Off	On	On	On

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2
100MHz	66MHz	1.5x	2 & 3	Open	Off	Off
133MHz	66MHz	1.5x	2 & 3	Open	Off	Off
166MHz	66MHz	2.5x	2 & 3	Open	On	On

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5, CON'T)

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
100MHz	66MHz	1.5x	Off	Off	On	On
133MHz	66MHz	1.5x	Off	Off	On	On
166MHz	66MHz	2.5x	Off	Off	On	On

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2
166MHz	66MHz	2.5x	2 & 3	Open	On	On

200MHz	66MHz	3x	2 & 3	Open	Off	On
233MHz	66MHz	3.5x	2 & 3	Open	Off	Off
266MHz	66MHz	4x	2 & 3	Open	On	Off
300MHz	66MHz	4.5x	2 & 3	Open	On	On

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6, CON'T)

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
166MHz	66MHz	2.5x	Off	Off	On	On
200MHz	66MHz	3x	Off	Off	On	On
233MHz	66MHz	3.5x	Off	Off	On	On
266MHz	66MHz	4x	On	Off	On	On
300MHz	66MHz	4.5x	On	Off	On	On

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2
266MHz	66MHz	4x	2 & 3	Open	On	Off
300MHz	66MHz	4.5x	1 & 2	2 & 3	Off	On
333MHz	66MHz	5x	1 & 2	2 & 3	Off	Off

Note: Pins designated should be in the closed position.

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

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
266MHz	66MHz	4x	On	Off	On	On
300MHz	66MHz	4.5x	Off	Off	Off	Off
333MHz	66MHz	5x	Off	On	Off	Off

CPU SPEED SELECTION (INTEL)

CPU speed	Clock speed	Multiplier	IP3	IP4	I12/1	I12/2
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CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
100MHz	66MHz	1.5x	2 & 3	Open	Off	Off
120MHz	60MHz	2x	2 & 3	Open	On	Off
133MHz	66MHz	2x	2 & 3	Open	On	Off
150MHz	60MHz	2.5x	2 & 3	Open	On	On
166MHz	66MHz	2.5x	2 & 3	Open	On	On
200MHz	66MHz	3x	2 & 3	Open	Off	On

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL, CON'T)

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
100MHz	66MHz	1.5x	Off	Off	On	On
120MHz	60MHz	2x	Off	On	On	On
133MHz	66MHz	2x	Off	Off	On	On
150MHz	60MHz	2.5x	Off	On	On	On
166MHz	66MHz	2.5x	Off	Off	On	On
200MHz	66MHz	3x	Off	Off	On	On

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	JP3	JP4	U2/1	U2/2
166MHz	66MHz	2.5x	2 & 3	Open	On	On
200MHz	66MHz	3x	2 & 3	Open	Off	On
233MHz	66MHz	3.5x	2 & 3	Open	Off	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX, CON'T)

CPU speed	Clock speed	Multiplier	U2/3	U2/4	U2/5	U2/6
166MHz	66MHz	2.5x	Off	Off	On	On
200MHz	66MHz	3x	Off	Off	On	On
233MHz	66MHz	3.5x	Off	Off	On	On

CPU VOLTAGE SELECTION

Voltage	J5
2.2v	Pins 1 & 2 closed
2.8v	Pins 3 & 4 closed
2.9v	Pins 5 & 6 closed
3.2v	Pins 7 & 8 closed
3.45v	Pins 9 & 10 closed
3.52v	Pins 11 & 12 closed