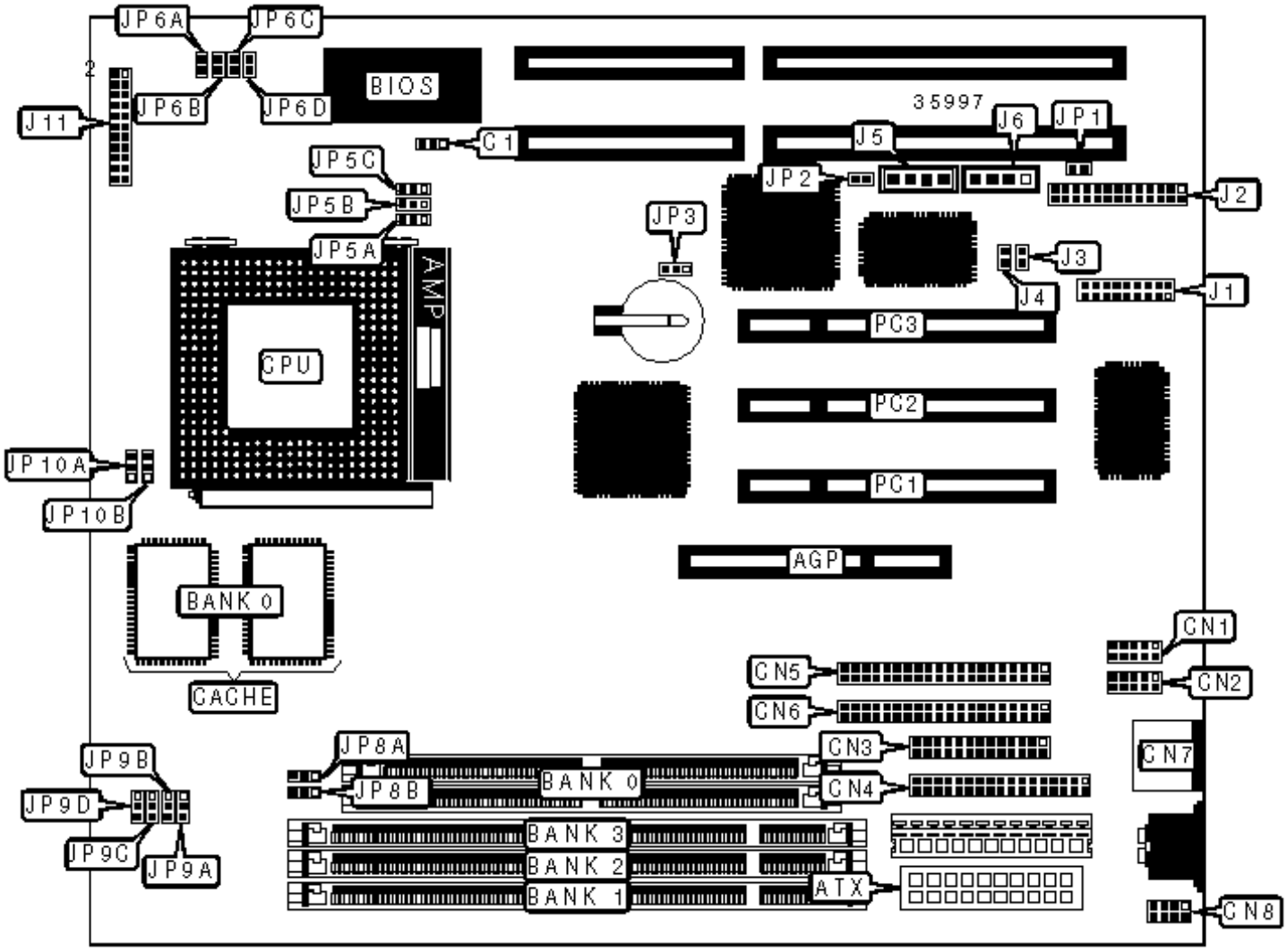
PINE TECHNOLOGY

PT-7542

Configuration



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Sound/game interface	J2
ATX power connector	ATX	Digital audio out	J3
Chassis fan power	C1	Digital audio in	J4
Serial port 2	CN1	Audio in - CD-ROM (Sony)	J5
Serial port 1	CN2	Audio in-CD-ROM (Panasonic)	J6
Parallel port	CN3	Power LED & keylock	J11/pins 1/3/5/7/9
Floppy drive interface	CN4	Bus mouse port	J11/pins 2/4/6/8
IDE interface 2	CN5	Turbo LED	J11/pins 13 & 14
IDE interface 1	CN6	IDE interface LED	J11/pins 15 & 16
PS/2 mouse port	CN7	Reset switch	J11/pins 17 & 18
PS/2 mouse interface	CN8	Green PC LED	J11/pins 19 & 20
ATX form card connector	J1	32-bit PCI slots	PC1 - PC3

USER CONFIGURABLE SETTINGS

	Function	Label	Position
»	Microphone type select normal mode	JP1	Open
	Microphone type select special mode	JP1	Closed
»	Factory configured - do not alter	JP2	Unidentified
»	CMOS memory normal operation	JP3	Pins 1 & 2 closed
	CMOS memory clear	JP3	Pins 2 & 3 closed

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

DIMM CONFIGURATION			
Size	Bank 1	Bank 2	Bank 3
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
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
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
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		
Voltage	JP8A	JP8B
3.3v	Pins 2 & 3 closed	Pins 2 & 3 closed
5v	Pins 1 & 2 closed	Pins 1 & 2 closed

CACHE CONFIGURATION	
Size	Bank 0
1MB	(2) 128K x 32

CPU SPEED SELECTION (CX 6X86)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2x	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (CX 6X86, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
150MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2x	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IBM 6X86, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
150MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86L, PCI 30MHZ)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2x	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (CX 6X86L, PCI 30MHZ, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
150MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86L, PCI 30MHZ)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2x	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IBM 6X86L, PCI 30MHZ, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
150MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86L, PCI 37MHZ)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2x	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (CX 6X86L, PCI 37MHZ, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
150MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM6X86L, PCI 37MHZ)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2x	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IBM 6X86L, PCI 37MHZ, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
150MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86MX, PCI 30MHZ)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3x	1 & 2	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (CX 6X86MX, PCI 30MHZ, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
200MHz	75MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2
233MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2

233MHz	75MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86MX, PCI 30MHZ)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3x	1 & 2	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IBM 6X86MX, PCI 30MHZ, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
200MHz	75MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2
233MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2
233MHz	75MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86MX, PCI 37MHZ)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3x	1 & 2	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (CX 6X86MX, PCI 37MHZ, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D

200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2
233MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86MX, PCI 37MHZ)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3x	1 & 2	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IBM 6X86MX, PCI 37MHZ, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2
233MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IDT C6)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3
180MHz	60MHz	3x	1 & 2	2 & 3	1 & 2
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IDT C6, CON'T)

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
150MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
180MHz	60MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2
120MHz	60MHz	2x	1 & 2	1 & 2	2 & 3
133MHz	66MHz	2x	1 & 2	1 & 2	2 & 3
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5, CON'T)

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
90MHz	60MHz	1.5x	2 & 3	2 & 3	2 & 3	1 & 2
100MHz	66MHz	1.5x	1 & 2	2 & 3	2 & 3	1 & 2
120MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
133MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6, CON'T)

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2, 66MHZ SDRAM)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
300MHz	100MHz	3x	1 & 2	2 & 3	1 & 2
350MHz	100MHz	3.5x	1 & 2	1 & 2	1 & 2

CPU SPEED SELECTION (AM K6-2, 66MHZ SDRAM, CON'T)

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
300MHz	100MHz	3x	1 & 2	1 & 2	1 & 2	2 & 3
350MHz	100MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3

Note: The location of pin 1 on SW1 is unidentified.

CPU SPEED SELECTION (AM K6-2, 100MHZ SDRAM)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
300MHz	100MHz	3x	1 & 2	2 & 3	1 & 2
350MHz	100MHz	3.5x	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (AM K6-2, 100MHZ SDRAM, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
300MHz	100MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2
350MHz	100MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (INTEL)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2
120MHz	60MHz	2x	1 & 2	1 & 2	2 & 3
133MHz	66MHz	2x	1 & 2	1 & 2	2 & 3
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (INTEL, CON'T)						
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
90MHz	60MHz	1.5x	2 & 3	2 & 3	2 & 3	1 & 2

100MHz	66MHz	1.5x	1 & 2	2 & 3	2 & 3	1 & 2
120MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
133MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (INTEL MMX, CON'T)

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU TYPE SELECTION

Type	JP10A	JP10B
AM K5	Pins 2 & 3 closed	Pins 2 & 3 closed
AM K6	Pins 1 & 2 closed	Pins 1 & 2 closed

AM K6-2	Pins 1 & 2 closed	Pins 1 & 2 closed
CX 6X86	Pins 2 & 3 closed	Pins 2 & 3 closed
CX 6X86L	Pins 1 & 2 closed	Pins 1 & 2 closed
CX 6X86MX	Pins 1 & 2 closed	Pins 1 & 2 closed
IBM 6X86	Pins 2 & 3 closed	Pins 2 & 3 closed
IBM 6X86L	Pins 1 & 2 closed	Pins 1 & 2 closed
IBM 6X86MX	Pins 1 & 2 closed	Pins 1 & 2 closed
IDT C6	Pins 1 & 2 closed	Pins 1 & 2 closed
Intel MMX	Pins 1 & 2 closed	Pins 1 & 2 closed
Intel P54C	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU VOLTAGE SELECTION

Voltage	JP6A	JP6B	JP6C	JP6D
2.1v	Closed	Open	Open	Open
2.2v	Open	Closed	Open	Open
2.5v	Closed	Open	Closed	Open
2.7v	Closed	Closed	Closed	Open
2.8v	Open	Open	Open	Closed
2.9v	Closed	Open	Open	Closed
3.2v	Open	Open	Closed	Closed
3.3v	Closed	Open	Closed	Closed
3.5v	Closed	Closed	Closed	Closed