PC CHIPS MANUFACTURING, LTD.

M577

Configuration
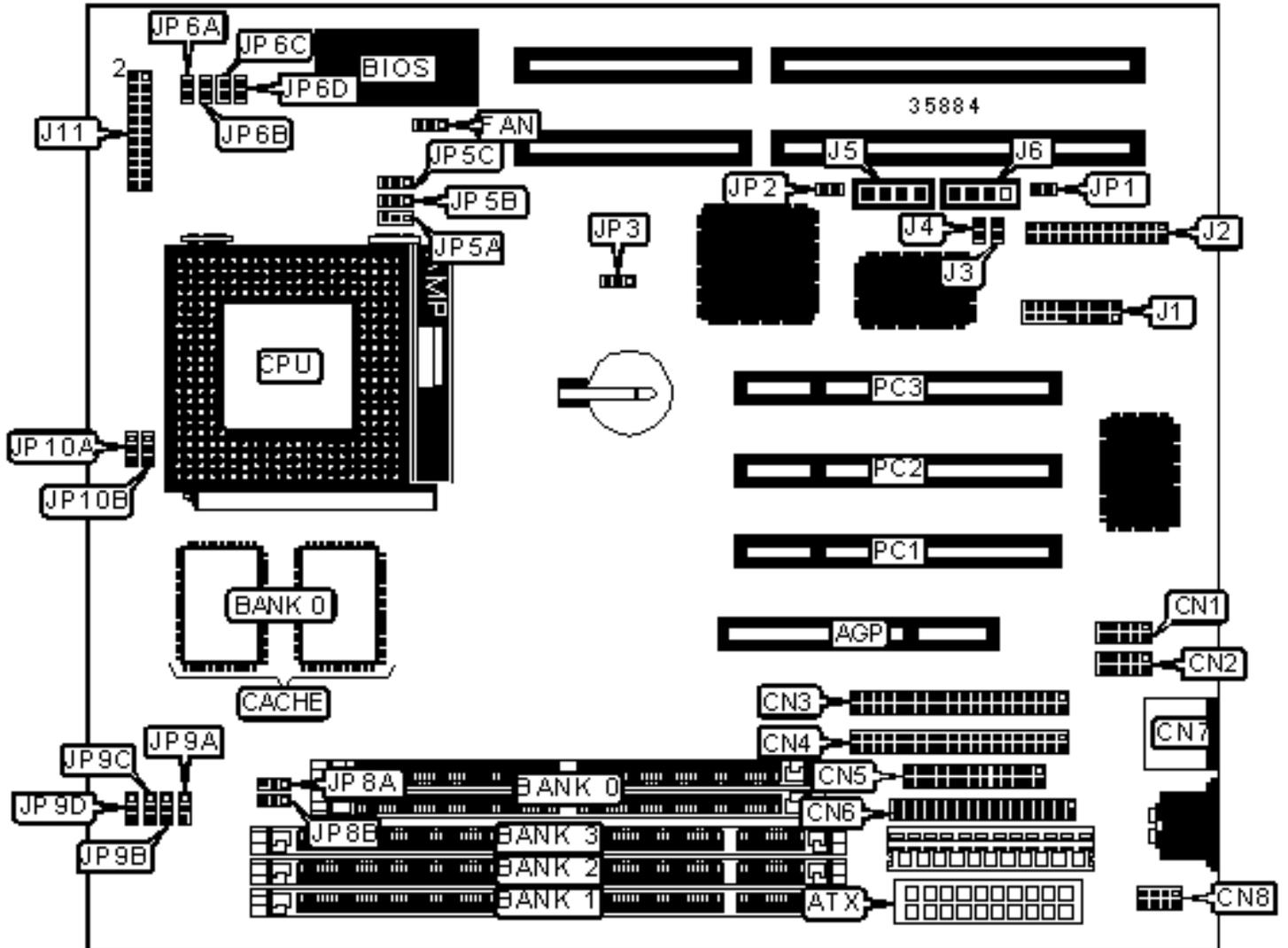
CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Sound/game connector	J2
ATX power connector	ATX	Digital audio out	J3
Serial port 2	CN1	Digital audio in	J4
Serial port 1	CN2	Audio in – CD-ROM	J5
IDE interface 2	CN3	Audio in – CD-ROM	J6
IDE interface 1	CN4	Power LED & keylock	J11/pins 1/3/5/7/9
Parallel port	CN5	Speaker	J11/pins 2/4/6/8
Floppy drive interface	CN6	Turbo LED	J11/pins 13 & 14
PS/2 mouse port	CN7	IDE interface LED	J11/pins 15 & 16
PS/2 mouse interface	CN8	Reset switch	J11/pins 17 & 18
Chassis fan power	FAN	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	JP1	Open
	Microphone type select special	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
256MB	(2) 32M 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
48MB	(1) 4M x 64	(1) 2M x 64	None
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
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
144MB	(1) 16M x 64	(1) 2M x 64	None
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
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	(1) 128K x 64

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2
200MHz	75MHz	2x	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86L, 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)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2
200MHz	75MHz	2x	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86L, 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 6X86MX)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
200MHz	60MHz	2x	2 & 3	1 & 2	1 & 2
233MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2
266MHz	75MHz	3x	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.					

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

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
200MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2
266MHz	75MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86MX)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
200MHz	60MHz	2x	2 & 3	1 & 2	1 & 2
233MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2
266MHz	75MHz	3x	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.					

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

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
200MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2
266MHz	75MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII 66MHZ SDRAM)

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

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII 66MHZ SDRAM, CON'T)

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

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII 100MHZ SDRAM)

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

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII 100MHZ SDRAM, CON'T)

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

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM MII 66MHZ SDRAM)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
300MHz	100MHz	3x	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IBM MII 66MHZ SDRAM, CON'T)

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
300MHz	100MHz	3x	1 & 2	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM MII 100MHZ SDRAM)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
300MHz	100MHz	3x	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IBM MII 100MHZ SDRAM, CON'T)

CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
300MHz	100MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
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
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	2 & 3	1 & 2	1 & 2
133MHz	66MHz	2x	2 & 3	1 & 2	1 & 2
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2
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
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	2 & 3	2 & 3	1 & 2
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)					
CPU speed	Clock speed	Multiplier	JP5A	JP5B	JP5C
333MHz	83MHz	4x	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (AM K6-2, CON'T)					
CPU speed	Clock speed	Multiplier	JP9A	JP9B	JP9C	JP9D
333MHz	83MHz	4x	1 & 2	2 & 3	1 & 2	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
Note: Pins designated should be in the closed position.					

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: Pins designated should be in the closed position.						

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	2 & 3	1 & 2	1 & 2

133MHz	66MHz	2x	2 & 3	1 & 2	1 & 2
150MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2.5x	2 & 3	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 (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	2 & 3	2 & 3	1 & 2
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
Single voltage	Pins 2 & 3 closed	Pins 2 & 3 closed
Dual voltage	Pins 1 & 2 closed	Pins 1 & 2 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