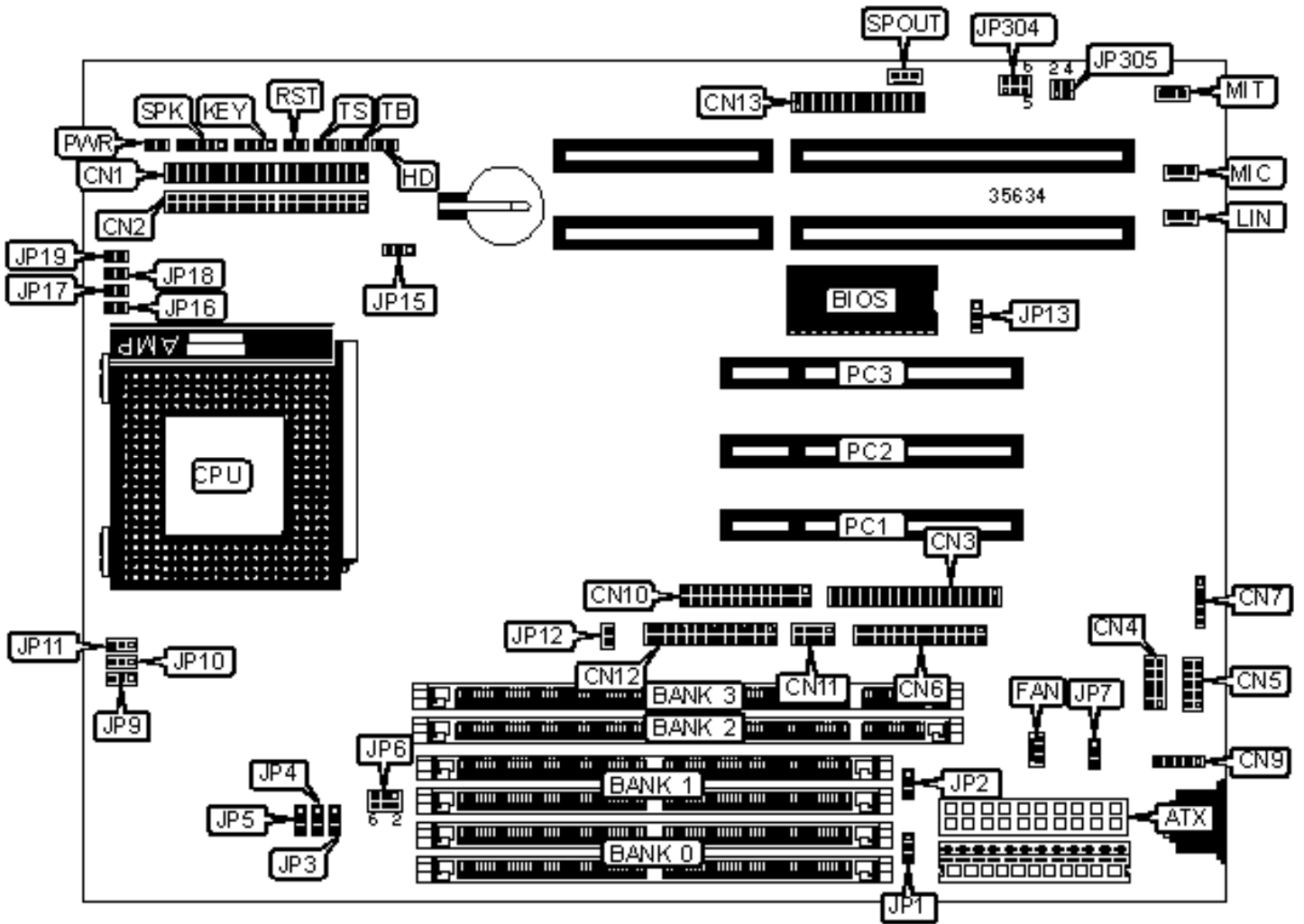


FREETECH CORPORATION

P5F98A

Configuration



CONNECTIONS

Purpose	Location	Purpose	Location
ATX power connector	ATX	CPU fan power	FAN
IDE interface 1	CN1	IDE interface LED	HD
IDE interface 2	CN2	Power LED & keylock	KEY
Floppy drive interface	CN3	Line in	LIN
Serial port 1	CN4	Microphone in	MIC
Serial port 2	CN5	32-bit PCI slots	PC1 - PC3
Parallel port	CN6	Soft off power supply	PWR
IR connector	CN7	Reset switch	RST
PS/2 mouse interface	CN9	Speaker	SPK
VGA connector	CN10	Line out	SPOUT
USB connector	CN11	Turbo LED	TB
VGA feature connector	CN12	Turbo switch	TS
Game interface	CN13		

USER CONFIGURABLE SETTINGS

Function	Label	Position
Flash BIOS voltage select 12v	JP13	Pins 2 & 3 closed
Flash BIOS voltage select 5v	JP13	Pins 1 & 2 closed
» CMOS memory normal operation	JP15	Pins 1 & 2 closed
CMOS memory clear	JP15	Pins 2 & 3 closed

SIMM CONFIGURATION

Size	Bank 0	Bank 1
4MB	(2) 1MB x 32	None

8MB	(2) 1MB x 32	(2) 1MB x 32
8MB	(2) 2MB x 32	None
12MB	(2) 2MB x 32	(2) 1MB x 32
16MB	(2) 2MB x 32	(2) 2MB x 32
16MB	(2) 4MB x 32	None
24MB	(2) 4MB x 32	(2) 2MB x 32
32MB	(2) 4MB x 32	(2) 4MB x 32
32MB	(2) 8MB x 32	None
48MB	(2) 8MB x 32	(2) 4MB x 32
64MB	(2) 8MB x 32	(2) 8MB x 32
64MB	(2) 16MB x 32	None
96MB	(2) 16MB x 32	(2) 8MB x 32
128MB	(2) 16MB x 32	(2) 16MB x 32
128MB	(2) 32MB x 32	None
192MB	(2) 32MB x 32	(2) 16MB x 32
256MB	(2) 32MB x 32	(2) 32MB x 32

Note: Both SIMMs and DIMMs may be used at the same time, however the SIMM BANK 0 and the DIMM BANK 2 can not both be used at the same time.

DIMM CONFIGURATION

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

48MB	(1) 4MB x 64	(1) 2MB x 64
64MB	(1) 4MB x 64	(1) 4MB x 64
64MB	(1) 8MB x 64	None
96MB	(1) 8MB x 64	(1) 4MB x 64
128MB	(1) 8MB x 64	(1) 8MB x 64
128MB	(1) 16MB x 64	None
192MB	(1) 16MB x 64	(1) 8MB x 64
256MB	(1) 16MB x 64	(1) 16MB x 64
<p>Note: Both SIMMs and DIMMs may be used at the same time, however the SIMM BANK 0 and the DIMM BANK 2 can not both be used at the same time.</p>		

DIMM VOLTAGE SELECTION	
Voltage	JP6
3.3v	Pins 3 & 5, 4 & 6 closed
5v	Pins 1 & 3, 2 & 4 closed

SOUND OUTPUT SELECTION		
Sound Output	JP304	JP305
Line out	1 & 3, 2 & 4	Open
Speaker out	3 & 5, 4 & 6	1 & 2, 3 & 4
<p>Note: Pins designated are in the closed position.</p>		

VGA SELECTION			
VGA Selection	JP1	JP2	JP12
Onboard VGA enabled	1 & 2	1 & 2	Closed
Onboard VGA disabled	2 & 3	2 & 3	Open
<p>Note: Pins designated are in the closed position.</p>			

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
150MHz	60MHz	2x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	1 & 2
200MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
166MHz	60MHz	2.5x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	1 & 2
200MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
233MHz	75MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
233MHz	75MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3
300MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (IBM 6X86L)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
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150MHz	60MHz	2x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	1 & 2
200MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (IBM 6X86MX)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
166MHz	60MHz	2.5x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	1 & 2
200MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
233MHz	75MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (IBM MII)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
233MHz	75MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3
300MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3.5x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2

266MHz	66MHz	4x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2
300MHz	66MHz	4.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
Note: Pins designated are in the closed position.								

CPU SPEED SELECTION (INTEL)								
CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
100MHz	66MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2
133MHz	66MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3
Note: Pins designated are in the closed position.								

CPU SPEED SELECTION (INTEL MMX)								
CPU speed	Clock speed	Multiplier	JP3	JP4	JP5	JP9	JP10	JP11
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3.5x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2
Note: Pins designated are in the closed position.								

CPU VOLTAGE SELECTION				
V Core	JP16	JP17	JP18	JP19
2.2v	Open	Open	Closed	Closed
2.5v	Open	Closed	Closed	Closed
2.8v	Closed	Open	Open	Open
2.9v	Closed	Open	Open	Closed
3.2v	Closed	Closed	Open	Open

3.3v	Closed	Closed	Open	Closed
3.5v	Closed	Closed	Closed	Closed