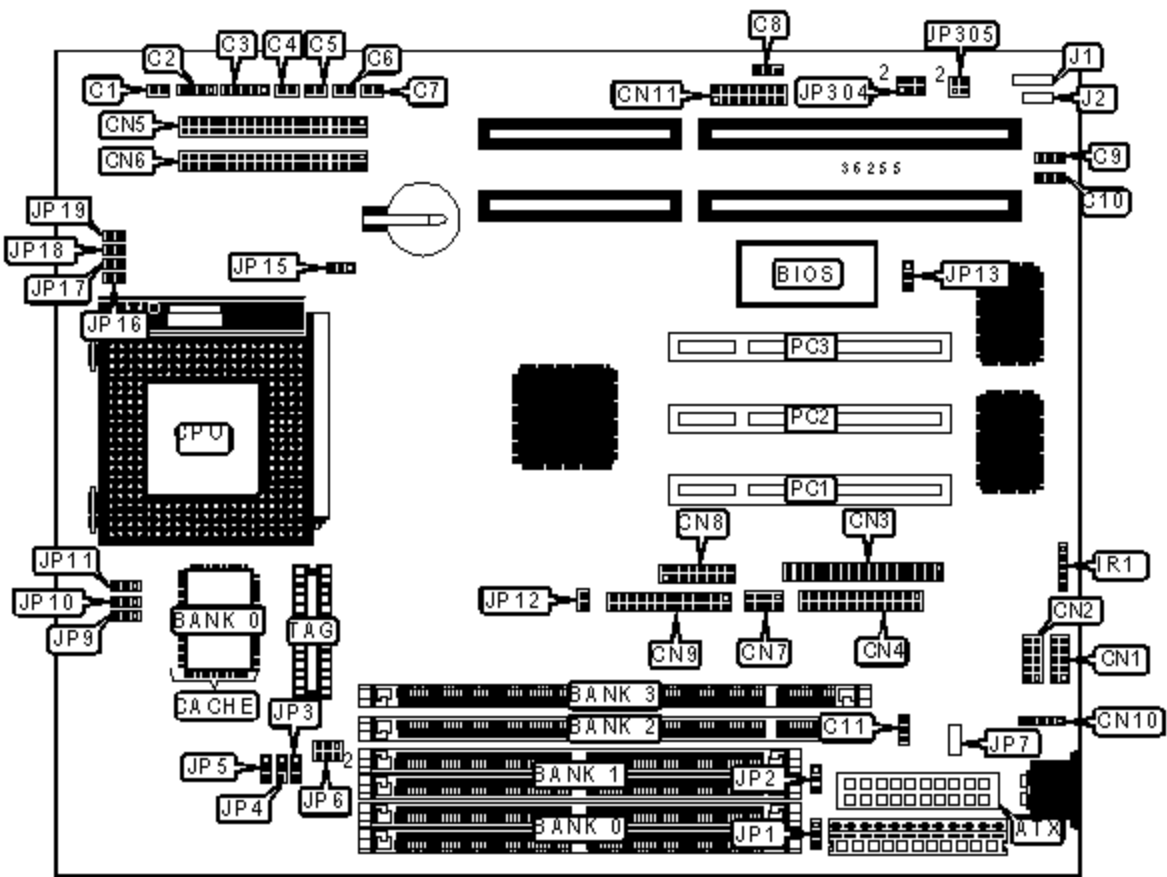


FREE COMPUTER TECHNOLOGY, INC

P5F98A

Device Type	Mainboard
Processor	CX 6X86L/IBM 6X86L/CX 686MX/IBM 6X86MX/CX MII/IBM MII/
	AM K6/Pentium MMX
Processor Speed	150/166/200/233/266/300MHz
Chip Set	SIS 5598
Video Chip Set	SIS
Maximum Onboard Memory	384MB (EDO & SDRAM supported) Unified Memory Architecture (UMA)
Cache	512KB
BIOS	Unidentified
Dimensions	247mm x 220mm
I/O Options	32-bit PCI slots (3), floppy drive interface, game interface, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), VGA feature connector, VGA port, IR connector, USB connector, ATX power connector, line in, line out, microphone in



CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	Serial port 1	CN2
Soft off power supply	C1	Floppy drive interface	CN3
Speaker	C2	Parallel port	CN4
Power LED & keylock	C3	IDE interface 1	CN5
Reset switch	C4	IDE interface 2	CN6

Turbo switch	C5	USB connector	CN7
Turbo LED	C6	VGA port	CN8
IDE interface LED	C7	VGA feature connector	CN9
Line out	C8	PS/2 mouse interface	CN10
Microphone in	C9	Game interface	CN11
Line in	C10	IR connector	IR1
CPU fan power	C11	32-bit PCI slots	PC1 - PC3
Serial port 2	CN1		

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	Factory configured - do not alter	J1	Unidentified
»	Factory configured - do not alter	J2	Unidentified
»	Factory configured - do not alter	JP7	Unidentified
	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) 512K x 36	None
8MB	(2) 512K x 36	(2) 512K x 36
8MB	(2) 1M x 36	None
12MB	(2) 1M x 36	(2) 512K x 36
16MB	(2) 2M x 36	None

16MB	(2) 1M x 36	(2) 1M x 36
20MB	(2) 2M x 36	(2) 512K x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
36MB	(2) 4M x 36	(2) 512K x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
68MB	(2) 8M x 36	(2) 512K x 36

SIMM CONFIGURATION (CON'T)		
Size	Bank 0	Bank 1
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36
128MB	(2) 16M x 36	None
136MB	(2) 16M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36
192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36
256MB	(2) 32M x 36	None
264MB	(2) 32M x 36	(2) 1M x 36
272MB	(2) 32M x 36	(2) 2M x 36
288MB	(2) 32M x 36	(2) 4M x 36
320MB	(2) 32M x 36	(2) 8M x 36

320MB	(2) 32M x 36	(2) 8M x 36
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384MB	(2) 32M x 36	(2) 16M x 36
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Note: Board accepts EDO memory.

DIMM CONFIGURATION

Size	Bank 2	Bank 3
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M 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.

DIMM VOLTAGE CONFIGURATION

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

CACHE CONFIGURATION

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

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	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 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	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2

Note: Pins designated should be 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

Note: Pins designated should be 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

Note: Pins designated should be 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 should be 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 should be 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 should be 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 should be in the closed position.

CPU VOLTAGE SELECTION

Voltage	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

ON BOARD VIDEO SELECTION

Setting	JP1	JP2	JP12
Enabled	Pins 1 & 2 closed	Pins 2 & 3 closed	Closed
Disabled	Pins 2 & 3 closed	Pins 1 & 2 closed	Open

SOUND CONFIGURATION		
Setting	JP304	JP305
Line out	Pins 1 & 3, 2 & 4 closed	Open
Speaker out	Pins 3 & 5, 4 & 6 closed	Pins 1 & 2, 3 & 4 closed