DIAMOND FLOWER, INC.
P 5 B T X / L (R E V . A +)

Processor	CX 6X86L/CX 686MX/AM K5/AM K6/Pentium
Processor Speed	90/100/120/133/150/166/180/200/233/266MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	256MB (EDO supported)
Maximum Video Memory	None
Cache	512KB
BIOS	Award
Dimensions	254mm x 218mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), IR connector, USB connector
NPU Options	None
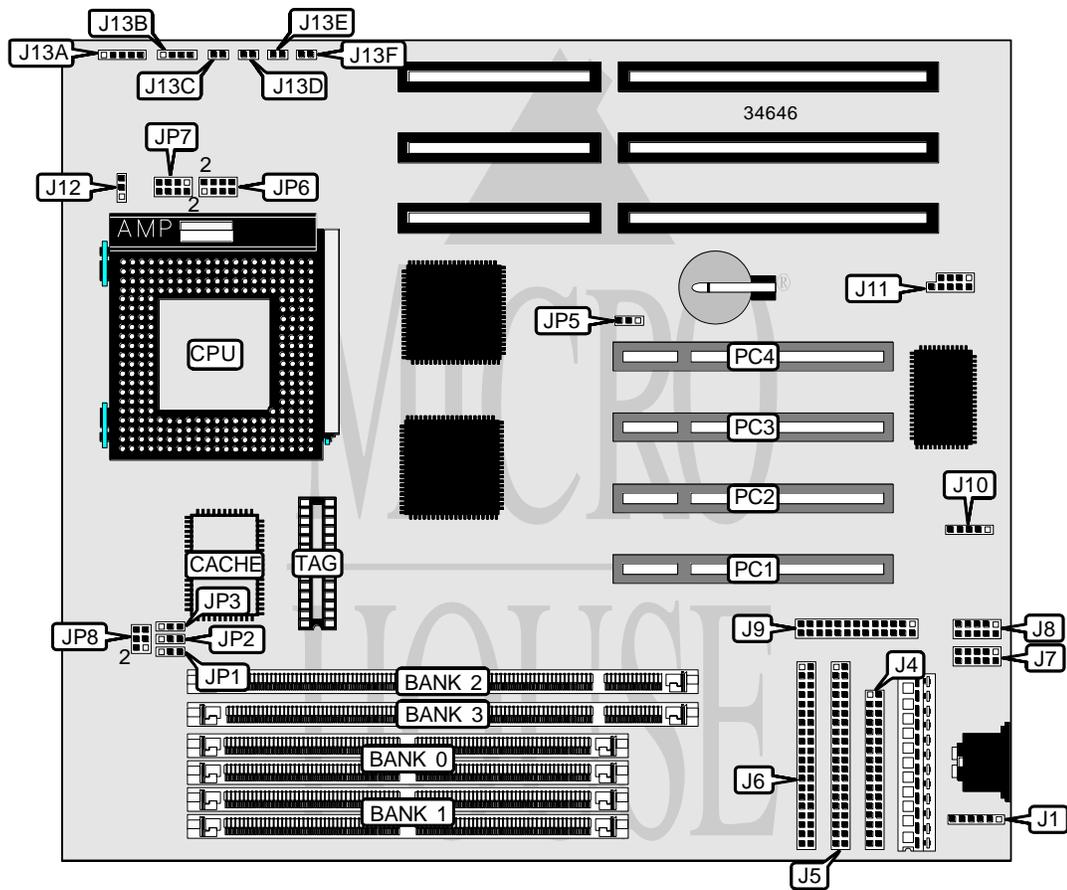
DIAMOND FLOWER, INC.
P5BTX/L (REV. A+)

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
PS/2 mouse interface	J1	Chassis fan power	J12
Floppy drive interface	J4	Power LED & keylock	J13A
IDE interface 2	J5	Speaker	J13B
IDE interface 1	J6	Reset switch	J13C
Serial port 1	J7	Green PC connector	J13D
Serial port 2	J8	Green PC LED	J13E
Parallel port	J9	IDE interface LED	J13F
IR connector	J10	32-bit PCI slots	PC1 – PC4
USB connector (A & B)	J11		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í CMOS memory normal operation	JP5	Pins 1 & 2 closed
CMOS memory clear	JP5	Pins 2 & 3 closed

SIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M 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
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
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
Note: Board accepts EDO memory. Do not install SIMMs & DIMMs at the same time.		

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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

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

CPU SPEED SELECTION (CX 6X86L)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP8**
150MHz	60MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	1 & 2
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (CX 6X86MX)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP8**
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4	1 & 2, 3 & 4
166MHz	66MHz	2.5x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	1 & 2, 3 & 4
Note: Pins designated should be in the closed position.							

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CPU SPEED SELECTION (AM K5)							
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6	JP8
90MHz	60MHz	1.5x	1 & 2	2 & 3	2 & 3	5 & 6, 7 & 8	Open
100MHz	66MHz	1.5x	2 & 3	1 & 2	2 & 3	5 & 6, 7 & 8	Open
120MHz	60MHz	1.5x	1 & 2	2 & 3	2 & 3	5 & 6, 7 & 8	Open
133MHz	66MHz	1.5x	2 & 3	1 & 2	2 & 3	5 & 6, 7 & 8	Open
166MHz	66MHz	1.75x	2 & 3	1 & 2	2 & 3	5 & 6, 7 & 8	1 & 2, 3 & 4
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (AM K6)							
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6	JP8
166MHz	66MHz	2.5x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	1 & 2, 3 & 4
200MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4
233MHz	66MHz	3.5x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	Open
266MHz	66MHz	4x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	1 & 2, 5 & 6
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (INTEL)							
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6	JP8
90MHz	60MHz	1.5x	1 & 2	2 & 3	2 & 3	5 & 6, 7 & 8	Open
100MHz	66MHz	1.5x	2 & 3	1 & 2	2 & 3	5 & 6, 7 & 8	Open
120MHz	60MHz	2x	1 & 2	2 & 3	2 & 3	5 & 6, 7 & 8	1 & 2
133MHz	66MHz	2x	2 & 3	1 & 2	2 & 3	5 & 6, 7 & 8	1 & 2
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3	5 & 6, 7 & 8	1 & 2, 3 & 4
166MHz	66MHz	2.5x	2 & 3	1 & 2	2 & 3	5 & 6, 7 & 8	1 & 2, 3 & 4
200MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	5 & 6, 7 & 8	3 & 4
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (INTEL MMX)							
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6	JP8
166MHz	66MHz	2.5x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	1 & 2, 3 & 4
200MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4
233MHz	66MHz	3.5x	2 & 3	1 & 2	2 & 3	1 & 2, 3 & 4	Open
Note: Pins designated should be in the closed position.							

CPU VOLTAGE SELECTION	
Voltage	JP7
í 2.8v	Pins 7 & 8 closed
2.9v	Pins 1 & 2, 7 & 8 closed
3.2v	Pins 5 & 6, 7 & 8 closed
3.3v	Pins 1 & 2, 5 & 6, 7 & 8 closed
3.5v	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8 closed