DIAMOND FLOWER, INC.
P5BTX/L (REV. B+)

Device Type	Mainboard
Processor	CX 6X86L/CX 686MX/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/200/233MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	512MB (EDO & SDRAM 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 connectors (2)
NPU Options	None
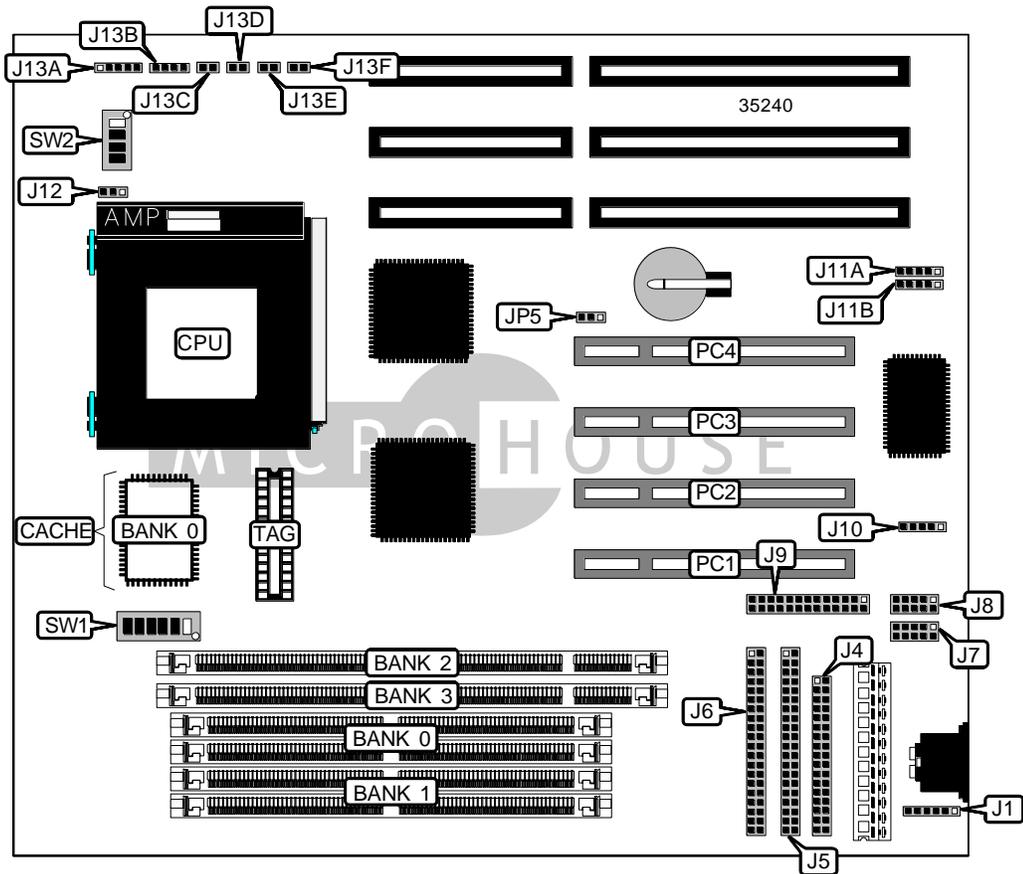
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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
PS/2 mouse interface	J1	USB connector 1	J11B
Floppy drive interface	J4	CPU fan power	J12
IDE interface 2	J5	Power LED & keylock	J13A
IDE interface 1	J6	Speaker	J13B
Serial port 1	J7	Reset switch	J13C
Serial port 2	J8	Green PC connector	J13D
Parallel port	J9	Green PC LED	J13E
IR connector	J10	IDE interface LED	J13F
USB connector 2	J11A	32-bit PCI slots	PC1 – PC4

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.		

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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
Note: Board accepts SDRAM memory.		

CACHE CONFIGURATION	
Size	**Bank 0**
512KB	(2) 64K x 32

CPU SPEED SELECTION (CX 6X86L)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
150MHz	60MHz	2x	Off	On	On	On	Off	Off
166MHz	66MHz	2x	On	Off	On	On	Off	Off

CPU SPEED SELECTION (CX 6X86MX)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
166MHz	60MHz	2.5x	Off	On	On	On	On	Off
200MHz	66MHz	2.5x	On	Off	On	On	On	Off

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CPU SPEED SELECTION (AM K5)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
90MHz	60MHz	1.5x	Off	On	On	Off	Off	Off
100MHz	66MHz	1.5x	On	Off	On	Off	Off	Off
120MHz	60MHz	1.5x	Off	On	On	Off	Off	Off
133MHz	66MHz	1.5x	On	Off	On	Off	Off	Off
166MHz	66MHz	1.75x	On	Off	On	On	On	Off

CPU SPEED SELECTION (AM K6)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
166MHz	66MHz	2.5x	On	Off	On	On	On	Off
200MHz	66MHz	3x	On	Off	On	Off	On	Off
233MHz	66MHz	3.5x	On	Off	On	Off	Off	Off
266MHz	66MHz	4x	On	Off	On	On	Off	On

CPU SPEED SELECTION (INTEL)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
90MHz	60MHz	1.5x	Off	On	On	Off	Off	Off
100MHz	66MHz	1.5x	On	Off	On	Off	Off	Off
120MHz	60MHz	2x	Off	On	On	On	Off	Off
133MHz	66MHz	2x	On	Off	On	On	Off	Off
150MHz	60MHz	2.5x	Off	On	On	On	On	Off
166MHz	66MHz	2.5x	On	Off	On	On	On	Off
200MHz	66MHz	3x	On	Off	On	Off	On	Off

CPU SPEED SELECTION (INTEL MMX)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
166MHz	66MHz	2.5x	On	Off	On	On	On	Off
200MHz	66MHz	3x	On	Off	On	Off	On	Off
233MHz	66MHz	3.5x	On	Off	On	Off	Off	Off

CPU VOLTAGE SELECTION				
Voltage	**SW2/1**	**SW2/2**	**SW2/3**	**SW2/4**
2.8v	Off	Off	Off	On
2.9v	On	Off	Off	On
3.2v	Off	Off	On	On
3.3v	On	Off	On	On
3.5v	On	On	On	On