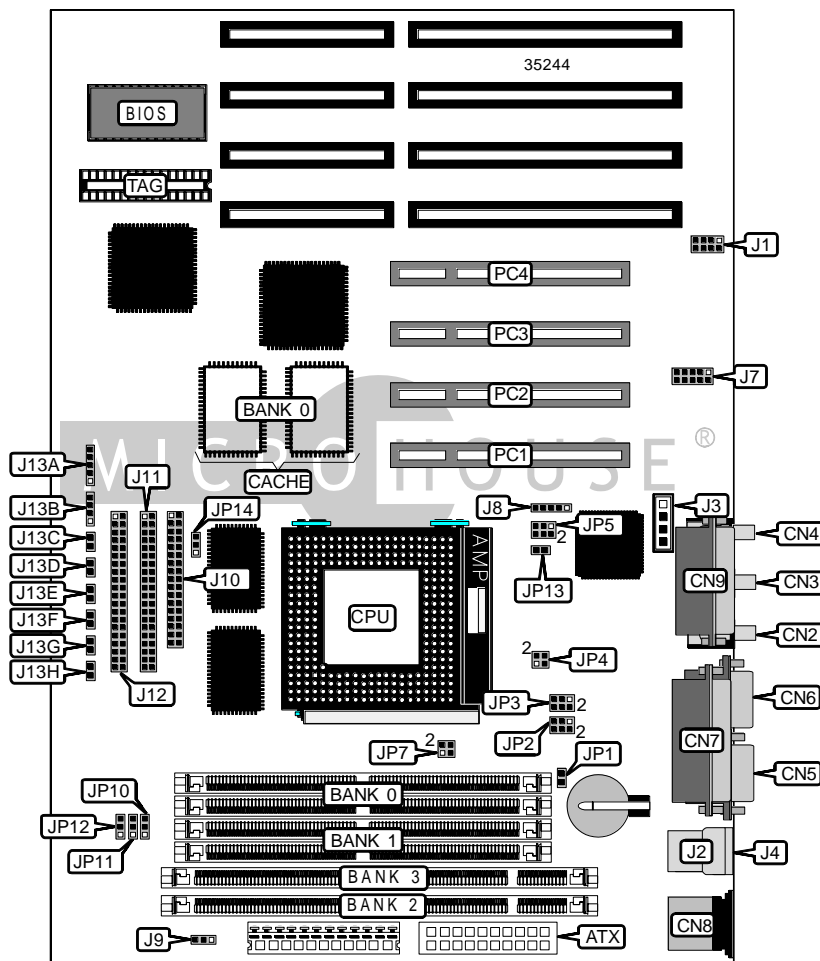


# DIAMOND FLOWER, INC. 586IVX/S (REV. A+)

<b>Device Type</b>	Mainboard
<b>Processor</b>	CX 6X86/AM K5/Pentium/Pentium MMX
<b>Processor Speed</b>	75/90/100/120/133/150/166/200MHz
<b>Chip Set</b>	Intel
<b>Video Chip Set</b>	None
<b>Maximum Onboard Memory</b>	128MB (EDO & SDRAM supported)
<b>Maximum Video Memory</b>	None
<b>Cache</b>	256/512KB
<b>BIOS</b>	Award
<b>Dimensions</b>	305mm x 230mm
<b>I/O Options</b>	32-bit PCI slots (4), floppy drive interface, game/MIDI port, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector, line in, line out, microphone in, wavetable connector, audio in – CD-ROM, modem connector
<b>NPU Options</b>	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	IR connector	J8
Line out	CN2	Chassis fan power	J9
Line in	CN3	Floppy drive interface	J10
Microphone in	CN4	IDE interface 1	J11
Serial port 2	CN5	IDE interface 2	J12
Serial port 1	CN6	Power LED & keylock	J13A
Parallel port	CN7	Speaker	J13B
PS/2 mouse port	CN8	Reset switch	J13C
Game/MIDI port	CN9	Green PC connector	J13D
Wavetable connector	J1	Soft off power supply	J13E
USB connector 1	J2	Green PC LED	J13F
USB connector 2	J4	IDE interface LED	J13G
Audio in – CD-ROM	J3	ATX LED	J13H
Modem connector	J7	32-bit PCI slots	PC1 – PC4

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í CMOS memory normal operation	JP1	Closed
CMOS memory clear	JP1	Open
í Password normal operation	JP13	Open
Password clear	JP13	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

Note: Board accepts EDO memory.

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DIMM CONFIGURATION		
Size	Bank 0	Bank 1
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) 8M x 64	(1) 8M x 64

Note: Board accepts SDRAM memory.

MEMORY TYPE SELECTION	
Type	JP14
í SIMMs installed	Pins 1 & 2 closed
DIMMs installed	Pins 2 & 3 closed

CACHE CONFIGURATION		
Size	Bank 0	TAG
256KB	(2) 32K x 32	Unidentified
512KB	(2) 64K x 32	Unidentified

CPU SPEED SELECTION (CX 6X86)						
CPU speed	Clock speed	Multiplier	JP5	JP10	JP11	JP12
120MHz	50MHz	2x	2 & 4, 3 & 5	1 & 2	1 & 2	1 & 2
133MHz	55MHz	2x	2 & 4, 3 & 5	2 & 3	1 & 2	1 & 2
150MHz	60MHz	2x	2 & 4, 3 & 5	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2x	2 & 4, 3 & 5	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

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CPU SPEED SELECTION (AM K5)						
CPU speed	Clock speed	Multiplier	JP5	JP10	JP11	JP12
75MHz	50MHz	1.5x	1 & 3, 2 & 4	1 & 2	1 & 2	1 & 2
90MHz	60MHz	1.5x	1 & 3, 2 & 4	1 & 2	2 & 3	1 & 2
100MHz	66MHz	1.5x	1 & 3, 2 & 4	1 & 2	1 & 2	2 & 3
120MHz	60MHz	1.5x	1 & 3, 2 & 4	1 & 2	2 & 3	1 & 2
133MHz	66MHz	1.5x	1 & 3, 2 & 4	1 & 2	1 & 2	2 & 3
166MHz	66MHz	1.75x	3 & 5, 4 & 6	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL)						
CPU speed	Clock speed	Multiplier	JP5	JP10	JP11	JP12
75MHz	50MHz	1.5x	1 & 3, 2 & 4	1 & 2	1 & 2	1 & 2
90MHz	60MHz	1.5x	1 & 3, 2 & 4	1 & 2	2 & 3	1 & 2
100MHz	66MHz	1.5x	1 & 3, 2 & 4	1 & 2	1 & 2	2 & 3
120MHz	60MHz	2x	2 & 4, 3 & 5	1 & 2	2 & 3	1 & 2
133MHz	66MHz	2x	2 & 4, 3 & 5	1 & 2	1 & 2	2 & 3
150MHz	60MHz	2.5x	3 & 5, 4 & 6	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2.5x	3 & 5, 4 & 6	1 & 2	1 & 2	2 & 3
200MHz	66MHz	3x	1 & 3, 4 & 6	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)						
CPU speed	Clock speed	Multiplier	JP5	JP10	JP11	JP12
166MHz	66MHz	2.5x	3 & 5, 4 & 6	1 & 2	1 & 2	2 & 3
200MHz	66MHz	3x	1 & 3, 4 & 6	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION				
Voltage	JP2	JP3	JP4	JP7
2.7v	1 & 3, 2 & 4	1 & 2	3 & 4	Open
2.8v	1 & 3, 2 & 4	3 & 4	3 & 4	Open
2.9v	1 & 3, 2 & 4	5 & 6	3 & 4	Open
3.3v	3 & 5, 4 & 6	3 & 4	3 & 4	1 & 2, 3 & 4
3.5v	3 & 5, 4 & 6	3 & 4	1 & 2	1 & 2, 3 & 4

Note: Pins designated should be in the closed position.