DIAMOND FLOWER, INC.
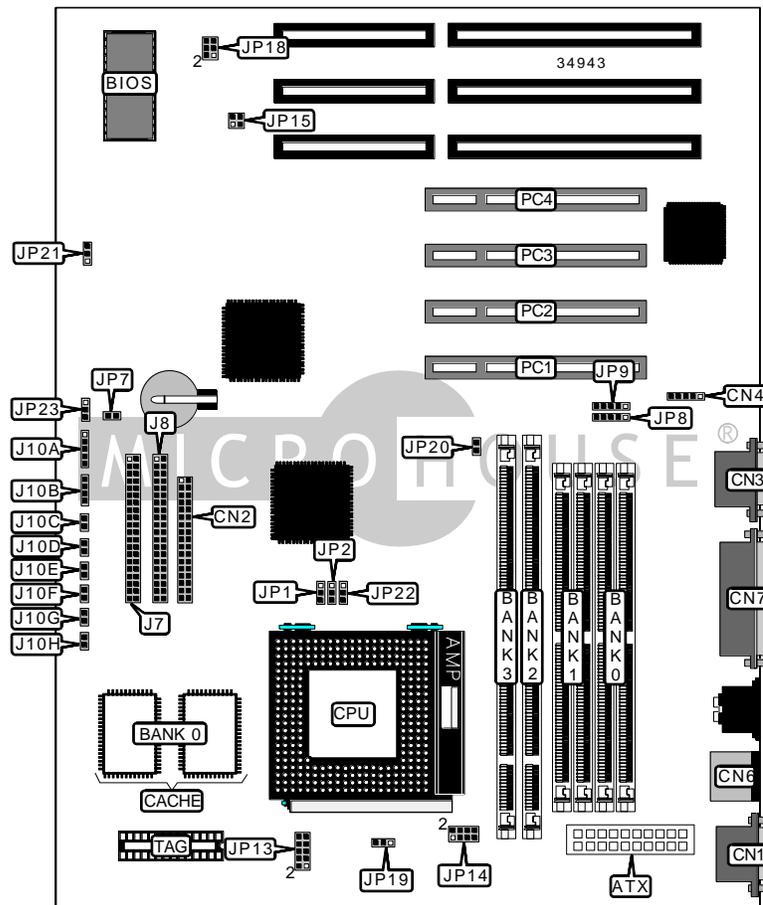# 586ITX (REV. A+)

Device Type	Mainboard
Processor	AM K5/AM K6/Pentium
Processor Speed	90/100/120/133/150/166/200/233MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Maximum Video Memory	None
Cache	512KB
BIOS	Award
Dimensions	305mm x 230mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector
NPU Options	None

DIAMOND FLOWER, INC.
586ITX (REV. A+)

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	Reset switch	J10C
Serial port 1	CN1	Green PC connector	J10D
Floppy drive interface	CN2	Soft off power supply	J10E
Serial port 2	CN3	Green PC LED	J10F
IR connector	CN4	IDE interface LED	J10G
PS/2 mouse port	CN6	ATX power supply LED	J10H
Parallel port	CN7	USB connector 1	JP8
IDE interface 1	J7	USB connector 2	JP9
IDE interface 2	J8	Chassis fan power	JP19
Power LED & keylock	J10A	32-bit PCI slots	PC1 – PC4
Speaker	J10B		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í CMOS memory normal operation	JP7	Closed
CMOS memory clear	JP7	Open
í Factory configured - do not alter	JP14	Pins 5 & 6, 7 & 8 closed
í Factory configured - do not alter	JP18	Pins 1 & 3, 4 & 6 closed
í Factory configured - do not alter	JP22	Open
í Factory configured - do not alter	JP23	Open

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

DIAMOND FLOWER, INC.
586ITX (REV. A+)

SIMM CONFIGURATION (CON'T)		
Size	**Bank 0**	**Bank 1**
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.		

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.		

DIAMOND FLOWER, INC.
586ITX (REV. A+)

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

CPU SPEED SELECTION (AM K5)					
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP20**
90MHz	60MHz	1.5x	1 & 2	1 & 2	Closed
100MHz	66MHz	1.5x	1 & 2	1 & 2	Open
120MHz	60MHz	2x	2 & 3	1 & 2	Closed
133MHz	66MHz	2x	2 & 3	1 & 2	Open
150MHz	60MHz	2.5x	2 & 3	2 & 3	Closed
166MHz	66MHz	2.5x	2 & 3	2 & 3	Open
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (AM K6)					
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP20**
166MHz	66MHz	2.5x	2 & 3	2 & 3	Open
200MHz	66MHz	3x	1 & 2	2 & 3	Open
233MHz	66MHz	3.5x	1 & 2	1 & 2	Open
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (INTEL)					
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP20**
90MHz	60MHz	1.5x	1 & 2	1 & 2	Closed
100MHz	66MHz	1.5x	1 & 2	1 & 2	Open
120MHz	60MHz	2x	2 & 3	1 & 2	Closed
133MHz	66MHz	2x	2 & 3	1 & 2	Open
150MHz	60MHz	2.5x	2 & 3	2 & 3	Closed
166MHz	66MHz	2.5x	2 & 3	2 & 3	Open
200MHz	66MHz	3x	1 & 2	2 & 3	Open
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (INTEL MMX)					
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP20**
166MHz	66MHz	2.5x	2 & 3	2 & 3	Open
200MHz	66MHz	3x	1 & 2	2 & 3	Open
233MHz	66MHz	3.5x	1 & 2	1 & 2	Open
Note: Pins designated should be in the closed position.					

DIAMOND FLOWER, INC.
5 8 6 I T X (R E V . A +)

CPU VOLTAGE SELECTION (SINGLE)	
Voltage	**JP15**
í 3.3v	Pins 3 & 4 closed
3.5v	Pins 1 & 2 closed

CPU VOLTAGE SELECTION (DUAL)	
Voltage	**JP13**
2.8v	Pins 7 & 8 closed
2.9v	Pins 5 & 6 closed
3.2v	Pins 9 & 10 closed
í 3.3v	Pins 3 & 4 closed
3.5v	Pins 1 & 2 closed

MODEM ON RING SELECTION	
Setting	**JP21**
COM1	Pins 1 & 2 closed
COM2	Pins 2 & 3 closed
í Disabled	Open