DIAMOND FLOWER, INC.
# G586OPA (REV. 0)

Device Type	Mainboard
Processor	Pentium
Processor Speed	75/90/100/120/133MHz
Chip Set	OPTI
Video Chip Set	None
Maximum Onboard Memory	128MB
Maximum Video Memory	None
Cache	256/512/1024KB
BIOS	Award
Dimensions	330mm x 220mm
I/O Options	32-bit PCI slots (4), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2)
NPU Options	None
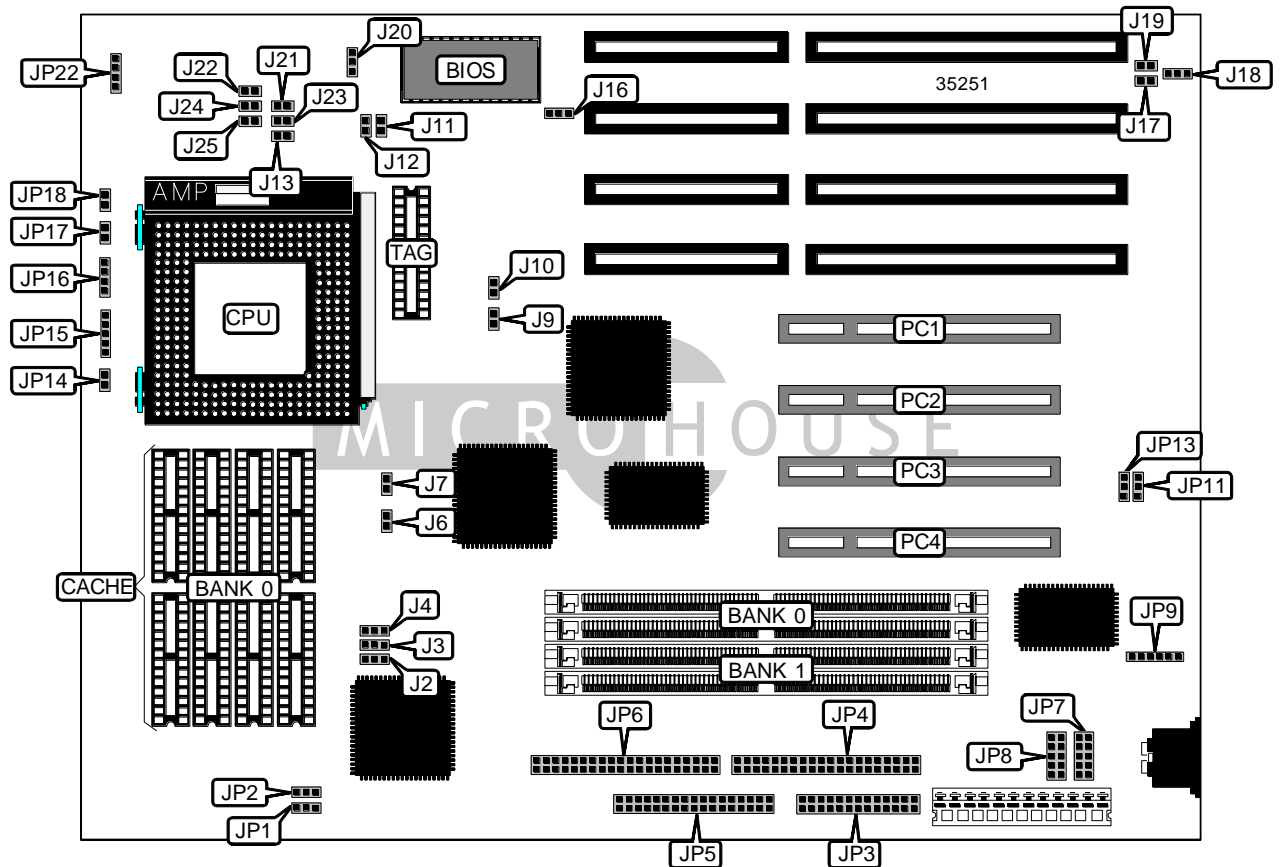
DIAMOND FLOWER, INC.
G 5 8 6 O P A   (R E V .   0)

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Parallel port	JP3	IDE interface LED	JP14
IDE interface 2	JP4	Power LED & LED	JP15
Floppy drive interface	JP5	Speaker	JP16
IDE interface 1	JP6	Reset switch	JP17
Serial port 1	JP7	Green LED	JP18
Serial port 2	JP8	CPU fan power	JP22
PS/2 mouse interface	JP9	32-bit PCI slots	PC1 – PC4

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Factory configured - do not alter	J2	Pins 2 & 3 closed
í Factory configured - do not alter	J3	Pins 2 & 3 closed
í Factory configured - do not alter	J8	Closed
í Factory configured - do not alter	J11	Closed
í Factory configured - do not alter	J12	Closed
í Flash BIOS voltage select 5v	J16	Pins 1 & 2 closed
Flash BIOS voltage select 12v	J16	Pins 2 & 3 closed
í PS/2 mouse IRQ12 enabled	J17	Closed
PS/2 mouse IRQ12 disabled	J17	Open
í Monitor type select color	J18	Pins 2 & 3 closed
Monitor type select monochrome	J18	Pins 1 & 2 closed
í Factory configured - do not alter	J19	Open
í Factory configured - do not alter	J20	Pins 2 & 3 closed
í Factory configured - do not alter	J21	Closed
í Factory configured - do not alter	J22	Closed
í Factory configured - do not alter	J23	Closed
í Factory configured - do not alter	J24	Closed
í Factory configured - do not alter	J25	Closed

SIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
2MB	(2) 256K x 36	None
4MB	(2) 512K x 36	None
4MB	(2) 256K x 36	(2) 256K x 36

DIAMOND FLOWER, INC.
G586OPA (REV. 0)

SIMM CONFIGURATION (CON'T)		
Size	**Bank 0**	**Bank 1**
6MB	(2) 512K x 36	(2) 256K x 36
8MB	(2) 1M x 36	None
8MB	(2) 512K x 36	(2) 512K x 36
10MB	(2) 1M x 36	(2) 256K x 36
12MB	(2) 512K x 36	(2) 1M x 36
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
18MB	(2) 2M x 36	(2) 256K x 36
20MB	(2) 512K x 36	(2) 2M 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
34MB	(2) 4M x 36	(2) 256K x 36
36MB	(2) 512K x 36	(2) 4M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 2M x 36	(2) 4M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
66MB	(2) 8M x 36	(2) 256K x 36
68MB	(2) 512K x 36	(2) 8M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 2M x 36	(2) 8M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36

CACHE CONFIGURATION		
Size	**Bank 0**	**TAG**
256KB	(8) 32K x 8	(1) 32K x 8
512KB	(8) 64K x 8	(1) 32K x 8
1MB	(8) 128K x 8	(1) 32K x 8

CACHE JUMPER CONFIGURATION		
Size	**J6**	**J7**
256KB	Open	Open
512KB	Open	Closed
1MB	Closed	Closed

DIAMOND FLOWER, INC.
G586OPA (REV. 0)

CACHE VOLTAGE SELECTION		
Voltage	**JP1**	**JP2**
3.3v	Pins 1 & 2 closed	Pins 1 & 2 closed
í Mixed voltage	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU SPEED SELECTION					
CPU speed	**Clock speed**	**Multiplier**	**J9**	**J10**	**J13**
75MHz	50MHz	1.5x	Open	Open	Open
90MHz	60MHz	1.5x	Closed	Closed	Open
100MHz	66MHz	1.5x	Open	Closed	Open
100MHz	50MHz	2x	Open	Open	Closed
120MHz	60MHz	2x	Closed	Closed	Closed
133MHz	66MHz	2x	Open	Closed	Closed

DMA CHANNEL SELECTION		
Channel	**JP11**	**JP13**
í 1	Pins 2 & 3 closed	Pins 2 & 3 closed
3	Pins 1 & 2 closed	Pins 1 & 2 closed