DIAMOND FLOWER, INC.
G486VPB (Rev. 0+)

Device Type	Mainboard
Processor	80486SX/80486DX/CX486DX/80486DX2/CX486DX2/ AM486DX2(SV8B)/AM486DX2(NV8T)/ST486DX2/80486DX4/ 80486DX4OverDrive/CX486DX4/AM486DX4(SV8B)/AM486DX4(NV8T)/AM5X86/ AM5X86-P75/CX5X86/P24T
Processor Speed	25/33/40/50/63(internal)/66(internal)/80(internal)/83(internal)/ 100(internal)/120(internal)/133(internal)MHz
Chip Set	VIA
Maximum Onboard Memory	128MB DRAM (EDO supported)
Cache	128/256/512KB
BIOS	Award
I/O Options	32-bit PCI slots (4), floppy drive interface, IDE interface (2), parallel port, serial ports (2), PS/2 mouse connector, green PC connector
Dimensions	220mm x 220mm
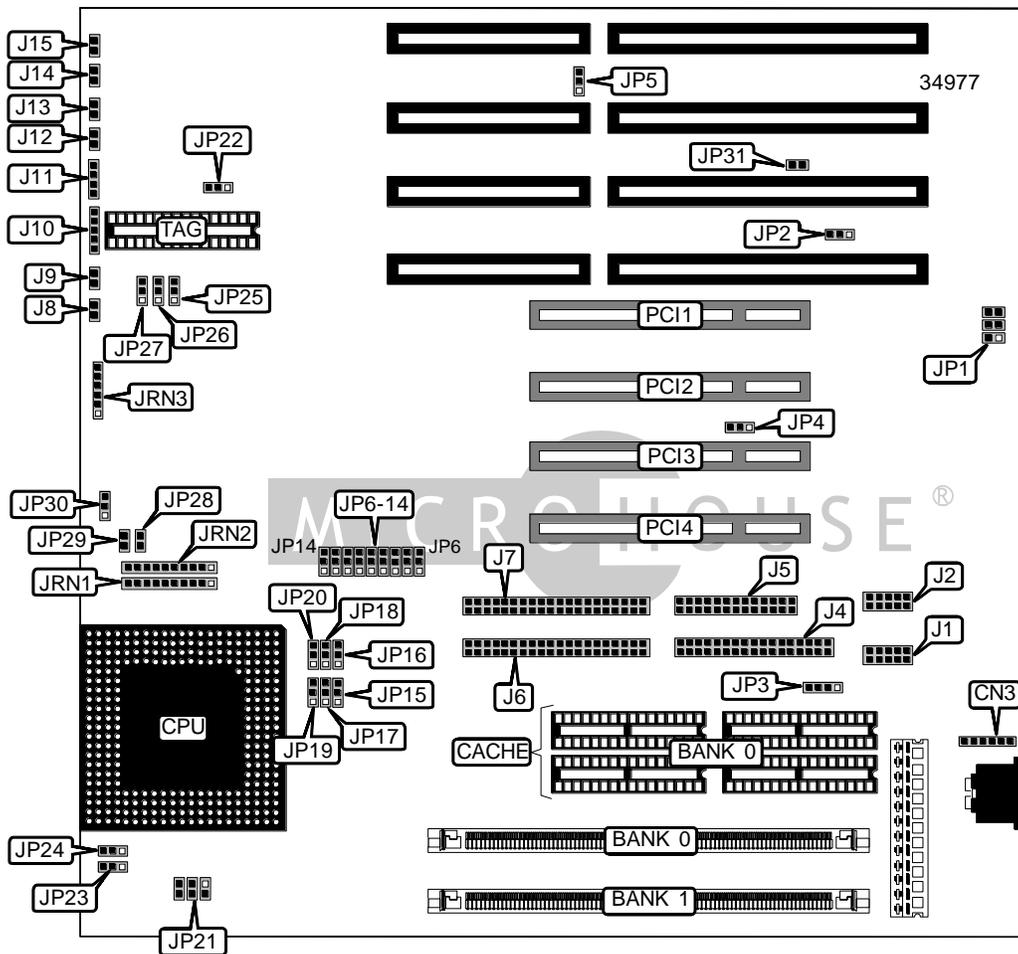
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CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 1	J1	Keylock	J10
Serial port 2	J2	Speaker	J11
External battery connector	J3	Reset switch	J12
Floppy drive interface	J4	Turbo/green PC connector	J13
Parallel port	J5	Turbo LED	J14
IDE interface 2	J6	Green PC LED	J15
IDE interface 1	J7	32-bit PCI slots	PCI1-4
IDE interface 2 LED	J8	PS/2 mouse connector	CN3
IDE interface 1 LED	J9		

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Battery type select external	JP3	Pins 1 & 2 closed
Battery type select internal	JP3	Pins 2 & 3 closed
í 12V flash EPROM 28F010	JP5	Pins 1 & 2 closed
5V flash EPROM 29F010 or EPROM 27C010	JP5	Pins 2 & 3 closed
í CMOS memory normal operation	JP22	Pins 1 & 2 closed
CMOS memory clear	JP22	Pins 2 & 3 closed
í Factory configured - do not alter	SW1/1	Pins 2 & 3 closed

DRAM CONFIGURATION		
Size	Bank 0	Bank 1
1MB	(1) 256K x 36	None
2MB	(1) 256K x 36	(1) 256K x 36
2MB	(1) 512K x 36	None
3MB	(1) 512K x 36	(1) 256K x 36
4MB	(1) 512K x 36	(1) 512K x 36
4MB	(1) 1M x 36	None
5MB	(1) 1 M x 36	(1) 256K x 36
6MB	(1) 1M x 36	(1) 512K x 36
8MB	(1) 1M x 36	(1) 1M x 36
8MB	(1) 2M x 36	None
9MB	(1) 2M x 36	(1) 256K x 36
10MB	(1) 2M x 36	(1) 512K x 36
12MB	(1) 2M x 36	(1) 1M x 36
16MB	(1) 2M x 36	(1) 2M x 36

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DRAM CONFIGURATION (CONT.)		
Size	Bank 0	Bank 1
16MB	(1) 4M x 36	None
17MB	(1) 4M x 36	(1) 256K x 36
18MB	(1) 4M x 36	(1) 512K x 36
20MB	(1) 4M x 36	(1) 1M x 36
24MB	(1) 4M x 36	(1) 2M x 36
32MB	(1) 4M x 36	(1) 4M x 36
32MB	(1) 8M x 36	None
33MB	(1) 8M x 36	(1) 256K x 36
34MB	(1) 8M x 36	(1) 512K x 36
36MB	(1) 8M x 36	(1) 1M x 36
40MB	(1) 8M x 36	(1) 2M x 36
48MB	(1) 8M x 36	(1) 4M x 36
64MB	(1) 8M x 36	(1) 8M x 36
64MB	(1) 16M x 36	None
65MB	(1) 16M x 36	(1) 256K x 36
66MB	(1) 16M x 36	(1) 512K x 36
68MB	(1) 16M x 36	(1) 1M x 36
72MB	(1) 16M x 36	(1) 2M x 36
80MB	(1) 16M x 36	(1) 4M x 36
96MB	(1) 16M x 36	(1) 8M x 36
128MB	(1) 16M x 36	(1) 16M x 36

CACHE CONFIGURATION		
Size	Bank 0	TAG
128KB	(4) 32K x 8	(1) 16K x 8
256KB	(4) 64K x 8	(1) 32K x 8
512KB	(4) 128K x 8	(1) 32K x 8

CACHE JUMPER CONFIGURATION					
Size	J10	J11	J12	J13	J14
128KB	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2
256KB	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2
512KB	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

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CPU EXTERNAL CLOCK SPEED SELECTION			
Speed	JP15	JP17	JP19
25MHz	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
33MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
40MHz	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
50MHz	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
50iMHz	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
63iMHz	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
66iMHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
80iMHz	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
83iMHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
100iMHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
120iMHz	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
133iMHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed

CPU TYPE SELECTION						
Type	JP6	JP18	JP20	JP25	JP26	JP27
80486SX	2 & 3	Open	Open	Open	2 & 3	2 & 3
80486DX/DX2	2 & 3	Open	Open	1 & 2	1 & 2	1 & 2
80486DX4	2 &3	2 & 3	Open	1 & 2	1 & 2	1 & 2
80486DX4OverDrive	2 & 3	2 & 3	Open	2 & 3	1 & 2	1 & 2
Pentium OverDrive	2 & 3	2 & 3	Open	2 & 3	1 & 2	1 & 2
AM486DX2 SV8B	2 & 3	2 & 3	Open	1 & 2	1 & 2	1 & 2
AM486DX2 NV8T	2 & 3	2 & 3	Open	1 & 2	1 & 2	1 & 2
AM486DX4 SV8B	2 & 3	2 & 3	Open	1 & 2	1 & 2	1 & 2
AM486DX4 NV8T	2 & 3	2 & 3	Open	1 & 2	1 & 2	1 & 2
CX486DX	2 & 3	1 & 2	Open	1 & 2	1 & 2	1 & 2
CX486DX2	2 & 3	1 & 2	Open	1 & 2	1 & 2	1 & 2
CX486DX4	2 & 3	1 & 2	Open	1 & 2	1 & 2	1 & 2
ST486DX2	2 & 3	1 & 2	Open	1 & 2	1 & 2	1 & 2
AM5x86-P75	2 & 3	2 & 3	Open	1 & 2	1 & 2	1 & 2
CX5x86	2 & 3	1 & 2	Open	1 & 2	1 & 2	1 & 2
Note: Numbers designate pins that should be in the closed position.						

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CPU TYPE SELECTION (CON'Tw)					
Type	JP28	JP29	JRN1	JRN2	JRN3
80486SX	Open	Open	Open	Closed	Open
80486DX/DX2	Open	Open	Open	Closed	Open
80486DX4	Open	Open	Open	Closed	Open
80486DX4OverDrive	Open	Open	Open	Closed	Open
Pentium OverDrive	Open	Open	Open	Closed	Open
AM486DX2 SV8B	Closed	Open	Open	Closed	Open
AM486DX2 NV8T	Open	Closed	Open	Closed	Open
AM486DX4 SV8B	Open	Open	Open	Closed	Open
AM486DX4 NV8T	Open	Open	Open	Closed	Open
CX486DX	Open	Open	Closed	Open	Open
CX486DX2	Open	Open	Closed	Open	Open
CX486DX4	Open	Open	Closed	Open	Open
ST486DX2	Open	Open	Closed	Open	Open
AM5x86-P75	Closed	Open	Open	Closed	Open
CX5x86	Open	Open	Open	Closed	Open

CPU VOLTAGE SELECTION			
Voltage	JP21	JP23	JP24
3.45v	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
3.6v	Pins 3 & 4 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
4v	Pins 5 & 6 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
5v	Open	Pins 1 & 2 closed	Pins 1 & 2 closed

VL BUS SPEED SELECTION		
Speed	JP4	JP8
í <= 33MHz	Pins 1 & 2 closed	Pins 1 & 2 closed
>33 MHz	Pins 2 & 3 closed	Pins 2 & 3 closed

DMA CHANNEL SELECTION		
Channel	JP1	JP1
None	Open	Open
1	Pins 1 & 3 closed	Pins 2 & 4 closed
3	Pins 3 & 5 closed	Pins 4 & 6 closed

PS/2 MOUSE SELECTION		
Setting	JP2	JP31
í Disabled	Pins 2 & 3 closed	Closed
Enabled	Pins 1 & 2 closed	Open