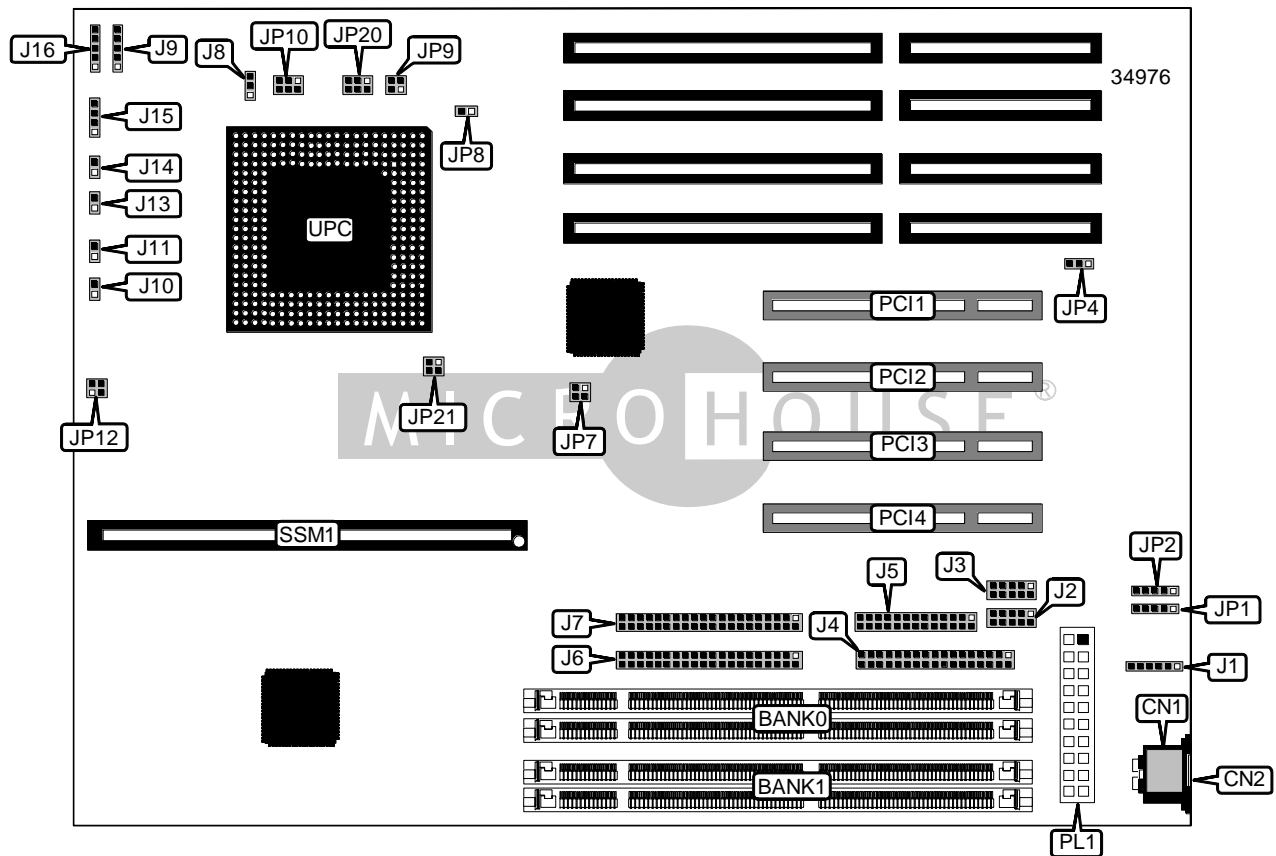


DIAMOND FLOWER, INC.

G586IPC (Rev. DF2+)

| | |
|------------------------|--|
| Device Type | Mainboard |
| Processor | AMK5/AMK6/CX 6x86/Pentium/MMX/Pentium OverDrive/ |
| Processor Speed | 75/90/100/120/133/150/166/180/200/233 |
| Chip Set | Intel |
| Maximum Onboard Memory | 256MB DRAM (EDO supported) |
| Cache | 256/512 |
| BIOS | Award |
| I/O Options | 32-bit PCI slots (4), floppy drive interface, IDE interface (2), parallel port, serial ports (2), PS/2 mouse port, PS/2 or AT keyboard port/USB connectors (2) IR connector/green PC connector |
| Dimensions | 250mm x 220mm |



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| CONNECTIONS | | | |
|------------------------|----------|-------------------------|----------|
| Purpose | Location | Purpose | Location |
| PS/2 mouse connector | J1 | Green PC connector | J13 |
| Serial port 1 | J2 | Reset switch | J14 |
| Serial port 2 | J3 | Speaker | J15 |
| Floppy drive interface | J4 | Power LED & keylock | J16 |
| Parallel port | J5 | PS/2 keyboard connector | CN1 |
| IDE interface 1 | J6 | AT keyboard connector | CN2 |
| IDE interface 2 | J7 | Power connector | PL1 |
| Fan connector | J8 | USB connector | JP1 |
| IR connector | J9 | USB connector | JP2 |
| IDE interface LED | J10 | Cache slot | SSM1 |
| Green PC LED | J11 | 32-bit PCI slots | PCI1-4 |

| USER CONFIGURABLE SETTINGS | | |
|--------------------------------|-------|-----------------|
| Function | Label | Position |
| í Display adapter set to color | JP4 | Pins 1&2 closed |
| Display adapter set to mono | JP4 | Pins 2&3 closed |
| í CMOS memory normal operation | JP8 | open |
| CMOS memory clear | JP8 | closed |

| DRAM CONFIGURATION | | |
|--------------------|--------------|--------------|
| Size | Bank 0 | Bank 1 |
| 8MB | (2) 1MB x 36 | None |
| 16MB | (2) 2MB x 36 | None |
| 16MB | (2) 1MB x 36 | (2) 1MB x 36 |
| 24MB | (2) 1MB x 36 | (2) 2MB x 36 |
| 32MB | (2) 4MB x 36 | None |
| 32MB | (2) 2MB x 36 | (2) 2MB x 36 |
| 40MB | (2) 1MB x 36 | (2) 4MB x 36 |
| 48MB | (2) 2MB x 36 | (2) 4MB x 36 |
| 64MB | (2) 8MB x 36 | None |
| 64MB | (2) 4MB x 36 | (2) 4MB x 36 |
| 72MB | (2) 1MB x 36 | (2) 8MB x 36 |

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| | | |
|--------|---------------|---------------|
| 80MB | (2) 8MB x36 | (2) 2MB x 36 |
| 96MB | (2) 4MB x 36 | (2) 8MB x 36 |
| 128MB | (2) 16MB x 36 | None |
| 128MB | (2) 8MB x 36 | (2) 8MB x 36 |
| 136MB | (2) 1MB x 36 | (2) 16MB x 36 |
| 144MB | (2) 2MB x 36 | (2) 16MB x 36 |
| 160MB | (2) 4MB x 36 | (2) 16MB x 36 |
| 192MB | (2) 8MB x 36 | (2) 8MB x 36 |
| 192 MB | (2) 16MB x 36 | (2) 8MB x 36 |
| 256 MB | (2) 16MB x 36 | (2) 16MB x 36 |

Note: Banks 0 & 1 are interchangeable.

CACHE CONFIGURATION

Note: The G586IPC come with 256KB or 512KB cache installed (location unidentified). If it has 256KB installed it may be upgraded to 512KB by adding 256KB in slot SSM1.

CPU SPEED SELECTION (CX 6X86)

| Speed | Clock speed | Multiplier | JP7 | JP12 |
|--------|-------------|------------|----------------------------|-------------------|
| 120MHz | 50MHz | 2x | 1 & 2 closed, 3 & 4 closed | Pins 1 & 2 closed |
| 133MHz | 55MHz | 2x | Open | Pins 1 & 2 closed |
| 150MHz | 60MHz | 2x | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 166MHz | 66MHz | 2x | Pins 3 & 4 closed | Pins 1 & 2 closed |

CPU SPEED SELECTION (AM K5)

| Speed | Clock speed | Multiplier | JP7 | JP12 |
|--------|-------------|------------|----------------------------|----------------------------|
| 75MHz | 50MHz | 1.5x | 1 & 2 closed, 3 & 4 closed | Open |
| 90MHz | 60 MHz | 1.5x | Pins 1 & 2 closed | Open |
| 100MHz | 66MHz | 1.5x | Pins 3 & 4 closed | Open |
| 120MHz | 60MHz | 1.5x | Pins 1 & 2 closed | Open |
| 133MHz | 66MHz | 1.5x | Pins 3 & 4 closed | Open |
| 166MHz | 66MHz | 1.75x | Pins 3 & 4 closed | 1 & 2 closed, 3 & 4 closed |

CPU SPEED SELECTION (AM K6)

| Speed | Clock speed | Multiplier | JP7 | JP12 |
|--------|-------------|------------|-------------------|----------------------------|
| 166MHz | 66MHz | 1.75x | Pins 3 & 4 closed | 1 & 2 closed, 3 & 4 closed |

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| CPU SPEED SELECTION (INTEL) | | | | |
|-----------------------------|-------------|------------|----------------------------|----------------------------|
| Speed | Clock speed | Multiplier | JP7 | JP12 |
| 75MHz | 50MHz | 1.5x | 1 & 2 closed, 3 & 4 closed | Open |
| 90MHz | 60MHz | 1.5x | Pins 1 & 2 closed | Open |
| 100MHz | 66MHz | 1.5x | Pins 3 & 4 closed | Open |
| 120MHz | 60MHz | 2x | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 133MHz | 66MHz | 2x | Pins 3 & 4 closed | Pins 1 & 2 closed |
| 150MHz | 60MHz | 2.5x | Pins 1 & 2 closed | 1 & 2 closed, 3 & 4 closed |
| 166MHz | 66MHz | 2.5x | Pins 3 & 4 closed | 1 & 2 closed, 3 & 4 closed |
| 200MHz | 66MHz | 3x | Pins 3 & 4 closed | Pins 3 & 4 closed |

| CPU SPEED SELECTION (INTEL MMX) | | | | |
|---------------------------------|-------------|------------|-------------------|----------------------------|
| Speed | Clock speed | Multiplier | JP7 | JP12 |
| 166MHz | 66MHz | 2.5x | Pins 3 & 4 closed | 1 & 2 closed, 3 & 4 closed |
| 200MHz | 66MHz | 3x | Pins 3 & 4 closed | Pins 3 & 4 closed |
| 233MHz | 66MHz | 3.5x | Pins 3 & 4 closed | Open |

| CPU VOLTAGE SELECTION | | | | |
|-----------------------|------------|---------------|--------------|---------------|
| Voltage | JP9 | JP10 | JP20 | JP21 |
| 2.5V | 3&4 closed | 1 & 3 , 2 & 4 | 5 & 6 closed | Open |
| 2.8V | 3&4 closed | 1 & 3 , 2 & 4 | 3 & 4 closed | Open |
| 2.9V | 3&4 closed | 1 & 3 , 2 & 4 | 1 & 2 closed | Open |
| 3.3V | 3&4 closed | 3 & 5 , 4 & 6 | 3 & 4 closed | 1 & 2 , 3 & 4 |
| 3.5V | 1&2 | 3 & 5 , 4 & 6 | 3 & 4 | 1 & 2 , 3 & 4 |

Note: Numbers designate pins that should be in the closed position.