DIAMOND FLOWER, INC.
PBMF-3000

Card Type	Multi-I/O card,
Chip Set	Unidentified
Maximum Onboard Memory	3MB DRAM
I/O Options	Game port, parallel port, serial ports (2), daughter board connector
Data Bus	16-bit ISA
Floppy drives supported	None
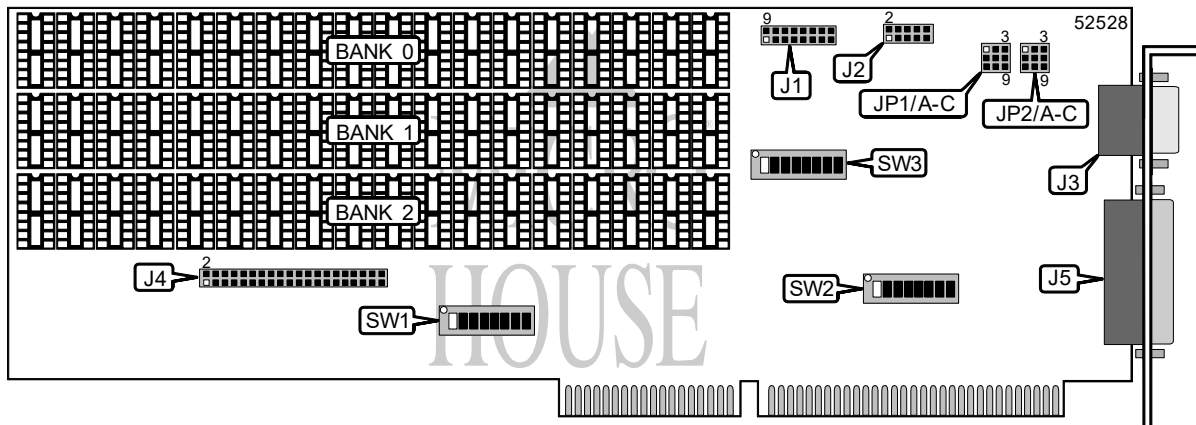
CONNECTIONS			
Function	Label	Function	Label
Game port	J1	Daughter board connector	J4
Serial port 2	J2	Parallel port	J5
Serial port 1	J3		

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Serial port 1 DCD normal operation	JP1	Pins 1 & 2 closed
Serial port 1 DCD input forced true	JP1	Pins 2 & 3 closed
í Serial port 1 DSR normal operation	JP1	Pins 4 & 5 closed
Serial port 1 DSR input forced true	JP1	Pins 5 & 6 closed
í Serial port 1 CTS normal operation	JP1	Pins 7 & 8 closed
Serial port 1 CTS input forced true	JP1	Pins 8 & 9 closed
í Serial port 2 DCD normal operation	JP2	Pins 1 & 2 closed
Serial port 2 DCD input forced true	JP2	Pins 2 & 3 closed
í Serial port 2 DSR normal operation	JP2	Pins 4 & 5 closed
Serial port 2 DSR input forced true	JP2	Pins 5 & 6 closed
í Serial port 2 CTS normal operation	JP2	Pins 7 & 8 closed
Serial port 2 CTS input forced true	JP2	Pins 8 & 9 closed
í Parity enabled	SW1/8	On
Parity disabled	SW1/8	Off
í Game port enabled	SW2/4	On
Game port disabled	SW2/4	Off
í Factory configured - do not alter	SW3/7	Unidentified
í Factory configured - do not alter	SW3/8	Unidentified

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DRAM SWITCH CONFIGURATION									
Size	Bank 0	Bank 1	Bank 2	Bank 3	Bank 4	Bank 5	SW2/1	SW2/2	SW2/3
256KB	4164	None	None	None	None	None	Off	Off	off
512KB	4164	4164	None	None	None	None	On	Off	Off
384KB	4164	4164	4164	None	None	None	Off	On	Off
512KB	4164	4164	4164	4164	4164	4164	On	On	Off
512KB	41256	None	None	None	None	None	Off	Off	On
1024KB	41256	41256	None	None	None	None	On	Off	On
1536KB	41256	41256	41256	None	None	None	Off	On	On
2048KB	41256	41256	41256	41256	41256	41256	On	On	On

Note: Banks 3, 4 and 5 are located on the expansion board. Each bank takes 18 chips of the designated size.

MEMORY SWITCH CONFIGURATION								
Address	Size	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7
20000h	256KB	On	Off	Off	Off	Off	Off	Off
40000h	512KB	Off	On	Off	Off	Off	Off	Off
60000h	1MB	On	On	Off	Off	Off	Off	Off
80000h	1.125MB	Off	Off	On	Off	Off	Off	Off
100000h	1.25MB	On	Off	On	Off	Off	Off	Off
F60000h	15.375MB	On	On	Off	On	On	On	On
F80000h	15.5MB	Off	Off	On	On	On	On	On
FA0000h	15.675MB	On	Off	On	On	On	On	On
FC0000h	15.75MB	Off	On	On	On	On	On	On
FE0000h	15.875MB	On	On	On	On	On	On	On

Note: A total of 127 base address settings are available. The switches are a binary representation of the decimal memory addresses. SW1/7 is the Most Significant Bit and switch SW1/1 is the Least Significant Bit. The switches have the following decimal values: SW1/7=8388608, SW1/6=4194304, SW1/5=2097152, SW1/4=1048576, SW1/3=524288, SW1/2=262144, SW1/1=131072. Turn off the switches, add the values of the switches, and convert to hexadecimal to obtain the correct memory address. (Off=1,On-0). To obtain the Kilobyte memory size, divide the decimal value of the memory address by 1024, and to obtain the megabyte size divide by 1024 again.

PORT CONFIGURATION		
Setting	SW2/7	SW2/8
Disabled	Off	Off
Disabled	On	On
LPTA	Off	On
LPTB	On	Off

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SERIAL PORT 1 & 2 ADDRESS SELECTION			
Serial port 1	Serial port 2	SW2/5	SW2/6
Disabled	Disabled	Off	Off
í COM1 (3F8h)	COM2 (2F8h)	Off	On
COM2 (2F8h)	COM3 (3E8h)	On	Off
COM3 (3E8h)	COM4 (2E8h)	On	On

SERIAL PORT 1 INTERRUPT SELECTION		
IRQ	SW3/3	SW3/4
IRQ3	On	Off
í IRQ4	Off	On
Disabled	Off	Off

SERIAL PORT 2 INTERRUPT SELECTION		
IRQ	SW3/1	SW3/2
í IRQ3	On	Off
IRQ4	Off	On
Disabled	Off	Off

PARALLEL PORT INTERRUPT SELECTION		
IRQ	SW3/5	SW3/6
Disabled	Off	Off
í IRQ7	Off	On
IRQ5	On	Off

DIAMOND FLOWER, INC.
PBMF-3000 DAUGHTER BOARD
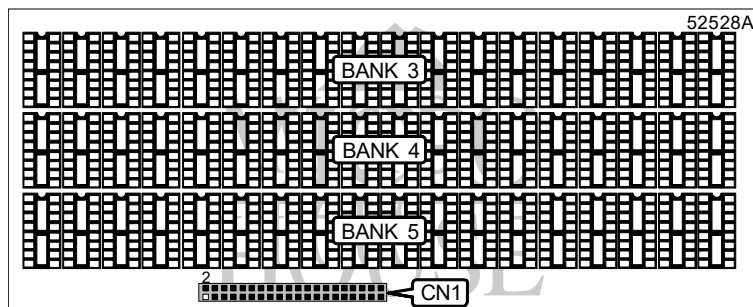
CONNECTIONS	
Function	Label
Daughter board connector	CN1