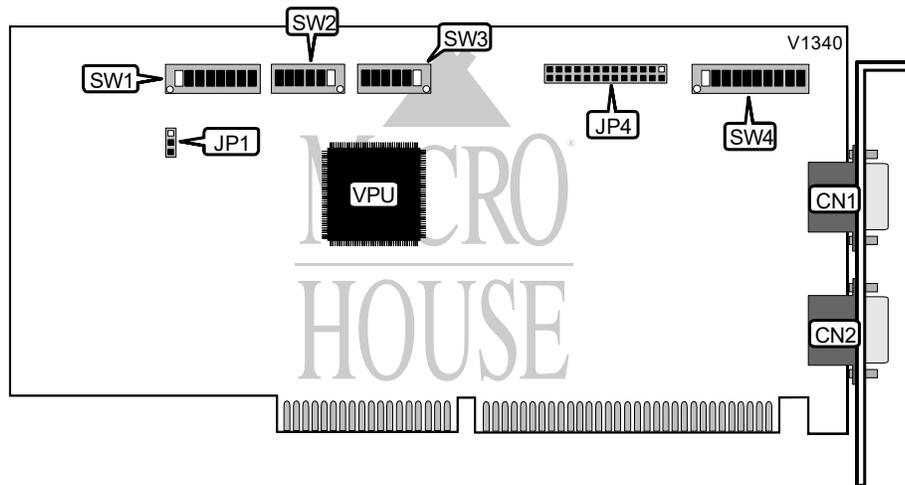# OMNICOMP GRAPHICS CORPORATION
M&M BASIC

Category	Video
Video Types Supported	VGA
Video Processor	S2C9001
Highest Resolution Supported	720 x 480
Data Bus Type	16-bit ISA
Memory Type	N/A
Maximum Onboard Memory	N/A

CONNECTIONS			
Purpose	Location	Purpose	Location
Video input connector	CN1	VESA feature connector	JP4
Video output connector	CN2		

I/O REGISTER SPACE CONFIGURATION	
Setting	JP1
Fixed	Pins 1 & 2 closed
Programmed	Pins 2 & 3 closed

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BASE I/O ADDRESS SELECTION								
Address	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
100h	Off	On	On	On	On	On	On	On
200h	On	Off	On	On	On	On	On	On
300h	Off	Off	On	On	On	On	On	On
400h	On	On	Off	On	On	On	On	On
500h	Off	On	Off	On	On	On	On	On
FB00h	Off	Off	On	Off	Off	Off	Off	Off
FC00h	On	On	Off	Off	Off	Off	Off	Off
FD00h	Off	On	Off	Off	Off	Off	Off	Off
FE00h	On	Off	Off	Off	Off	Off	Off	Off
FF00h	Off	Off	Off	Off	Off	Off	Off	Off

Note: A total of 255 base address settings are available. The switches are a binary representation of the decimal memory addresses. SW1/8 is the Most Significant Bit and switch SW1/1 is the Least Significant Bit. The switches have the following decimal values: SW1/8=32768, SW1/7=16384, SW1/6=8192, SW1/5=4096, SW1/4=2048, SW1/3=1024, SW1/2=512, SW1/1=256. Turn off the switches and add the values of the switches that are off to obtain the correct memory address. (Off=1, On=0)

VIDEO INPUT IMPEDANCE SELECTION			
Setting	SW4/2	SW4/3	SW4/4
Red display signal from VGA card	Off	Off	Off
Green display signal from VGA card	Off	Off	Off
Blue display signal from VGA card	Off	Off	Off
Channel 1 composite video or Y of S-video	Off	Off	Off
Channel 2 composite video or Y of S-video	Off	Off	Off
Channel 3 composite video or Y of S-video	Off	Off	Off
Channel 1 C of S-video	Off	Off	On
Channel 2 C of S-video	Off	On	Off
Channel 3 C of S-video	On	Off	Off

VIDEO INPUT IMPEDANCE SELECTION (CON'T)			
Setting	SW4/5	SW4/6	SW4/7
Red display signal from VGA card	Off	Off	Off
Green display signal from VGA card	Off	Off	Off
Blue display signal from VGA card	Off	Off	Off
Channel 1 composite video or Y of S-video	Off	Off	On
Channel 2 composite video or Y of S-video	Off	On	Off
Channel 3 composite video or Y of S-video	On	Off	Off
Channel 1 C of S-video	Off	Off	Off
Channel 2 C of S-video	Off	Off	Off
Channel 3 C of S-video	Off	Off	Off

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VIDEO INPUT IMPEDANCE SELECTION (CON'T)			
Setting	SW4/8	SW4/9	SW4/10
Red display signal from VGA card	Off	Off	On
Green display signal from VGA card	Off	On	Off
Blue display signal from VGA card	On	Off	Off
Channel 1 composite video or Y of S-video	Off	Off	Off
Channel 2 composite video or Y of S-video	Off	Off	Off
Channel 3 composite video or Y of S-video	Off	Off	Off
Channel 1 C of S-video	Off	Off	Off
Channel 2 C of S-video	Off	Off	Off
Channel 3 C of S-video	Off	Off	Off

MISCELLANEOUS TECHNICAL NOTE
SW2 is the Video Color Switch. It is used to adjust the timing of the color information in the video signal. SW2 consists of six switches the default is the SW2/4 switch in the On position, & the rest of the switches in the Off position. You must use a "trial and error" process to adjust SW2. Only one switch can be On at any given time.

MISCELLANEOUS TECHNICAL NOTE
SW3 is the Color Key Skew Switch. It is used to adjust the timing of the color key signal. SW3 consists of six switches the default is the SW3/4 switch in the On position, & the rest of the switches in the Off position. You must use a "trial and error" process to adjust SW3. Only one switch can be On at any given time.

FACTORY CONFIGURED - DO NOT ALTER	
Switch	Position
SW4/1	On