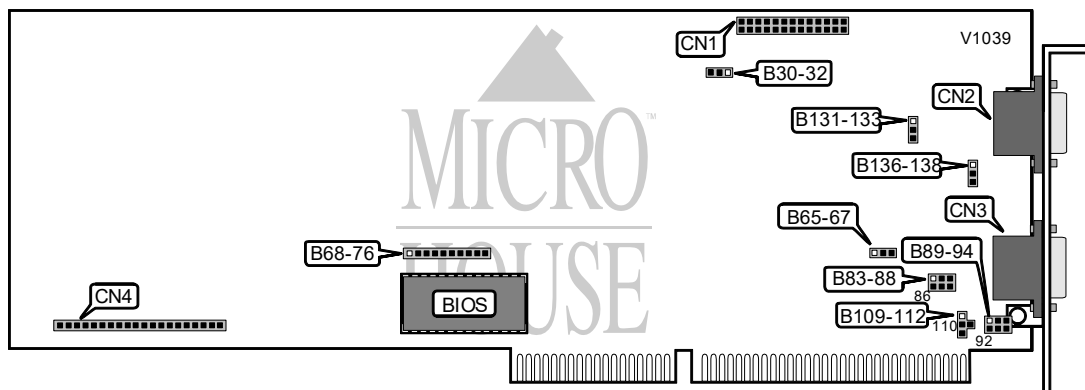


# MATROX GRAPHICS, INC. ILLUMINATOR 16/AT/A

**Card Type** Video  
**Chipset Controller** N/A  
**I/O Options** Video  
**Maximum DRAM** N/A



CONNECTIONS			
Purpose	Location	Purpose	Location
VGA feature connector	CN1	Video out	CN3
Video in	CN2	Video stabilizer	CN4

BIOS ADDRESS SELECTION	
Address	B68-76
0000h	Pins 68 & 69, 71 & 72, 74 & 75 closed
C400h	Pins 68 & 69, 71 & 72, 75 & 76 closed
C800h	Pins 68 & 69, 72 & 73, 74 & 75 closed
CC00h	Pins 68 & 69, 72 & 73, 75 & 76 closed
D000h	Pins 69 & 70, 71 & 72, 74 & 75 closed
D400h	Pins 69 & 70, 71 & 72, 75 & 76 closed
D800h	Pins 69 & 70, 72 & 73, 74 & 75 closed
DC00h	Pins 69 & 70, 72 & 73, 75 & 76 closed

INPUT SIGNAL	
Configuration	B30-32, B131-133, B136-138
Composite	Pins 31 & 32, 131 & 132, 136 & 137 closed
S-Video	Pins 30 & 31, 132 & 133, 137 & 138 closed

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**ILLUMINATOR 16/ATA**

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OUTPUT SIGNAL	
Configuration	B89-94
i Composite	Pins 90 & 91, 93 & 94 closed
S-Video	Pins 89 & 90, 92 & 93 closed
Note: Pins 89-91 control Luma. Pins 92-94 control Chroma	

SYNC/COLOR MIX	
Color	B65-67, B83-88
Red	Pins 66 & 67, 83 & 84, 87 & 88 closed
Green	Pins 65 & 66, 84 & 85, 87 & 88 closed
Blue	Pins 66 & 67, 84 & 85, 86 & 87 closed
Unmixed	Pins 66 & 67, 84 & 85, 86 & 87 closed
Note: Set B109-112 for VGA pass-through (see special sync table)	

SPECIAL SYNC	
Sync	B109-B112
Separate hsync, vsync	Pins 109 & 110 closed
Digital csync	Pins 110 & 111 closed
Analog csync	Pins 110 & 112 closed
VGA passthrough	Pins 109 & 110 closed