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Macintosh Display Card 8/24GC and Raster Ops Monitors

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TOPIC -----

I have a RasterOps Colorboard 108 plus video card and a RasterOps 19-inch Trinitron monitor. I also have two questions:

- 1) Does the Macintosh Display Card 8/24GC support the RasterOps 19-inch Trinitron monitor?
- 2) If I install the Macintosh Display Card 8/24GC but don't connect a monitor to it, will it accelerate the display on the RasterOps monitor?

DISCUSSION -----

- 1) The Macintosh Display Card 8/24GC supports any display that meets one of the following specifications:

Sense pins			Display	Hor x Vert Pixels	Dot Clock	Vert Refrsh	Horiz Refrsh
10	7	4	Display				
0	0	1	Apple Portrait Display	640 x 870	57.2832	75	68.9
0	1	1	Apple Two-Page Monochrome Monitor	1152 x 870	100	75	68.7
1	1	0	12-Inch Apple Monochrome Monitor	640 x 480	30.24	66.7	35.0
1	1	0	13-Inch AppleColor RGB Monitor	640 x 480	30.24	66.7	35.0

0 - Grounded 1 - Not Connected

Note that sense pins 4, 7, and 10 are referred to as SENSE0, SENSE1, and SENSE2 in pinout tables for the video connectors.

None of the RasterOps 19-inch Trinitron displays meets the above specifications. One of their 19-inch Trinitron displays has a vertical refresh of 75Hz and a horizontal refresh of 60.241KHz. We do not think that this will work properly, but you can try it in the "Apple Two-Page Monochrome Monitor" mode.

Here are the pinouts for the Macintosh Display Card 8/24GC:

Pin	Description
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1	Red Video Ground
2	Red Video
3	Composite Sync
4	SENSE0
5	Green Video
6	Green Video Ground
7	SENSE1
8	Not Connected
9	Blue Video
10	SENSE2
11	Composite Sync and Vertical Sync Ground
12	Vertical Sync
13	Blue Video Ground
14	Horizontal Sync Ground
15	Horizontal Sync
Shell	Chassis Ground

2) If no monitor is connected to the Macintosh Display Card 8/24GC, the card will, in effect, turn itself off and not accelerate the RasterOps display system. You can trick the card into thinking that a monitor is attached by grounding pin 4. This will cause the card to accelerate other displays in the system.

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