Tech Info Library

Display Card 8/24GC: Third-Party Monitor Support

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Security:       Everyone
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TOPIC ---

Will Apple's new video cards, specifically the Macintosh Display Card 8/24GC,
support third-party monitors? I am particularly interested in
RasterOps and SuperMac 19-inch monitors.

DISCUSSION --

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

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

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 or SuperMac 19-inch displays meets the above
specifications. Based on this, we do not think that they will work properly.

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

```
Pin           Description
---           -------------------------------------------
```

```
 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
```

SuperMac has announced two new monitors that work with the new Apple video cards: the "Color Two-Page Display" and the "Platinum Two-Page Display."

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