



Tech Info Library

Display Card 4/8 and 8/24 Specifications (Discontinued)

TOPIC -----

This article gives specifications for the Display Card 4/8 and 8/24.

DISCUSSION -----

System Requirements

To use the Macintosh Display Card 4/8 or Macintosh Display Card 8/24, you'll need a personal computer in the Macintosh II family with an available NuBus slot and System Software Version 6.0.5 or later. For Macintosh II, IIX, and IICX, you'll need 32-bit QuickDraw software to run 24-bit color applications. To take advantage of full 24-bit color, Apple recommends a minimum of 2 megabytes of RAM.

Technical Specifications

Interface

- NuBus; plugs into any Macintosh II slot
- NuBus slave block transfer modes supported

Connector

15-pin D-style

Display modes

- 1, 2, 4, 8, or 24 bits per pixel (2, 4, 16, 256, or 16.7 million colors)
- Software-selectable

Display resolution

- Up to 1,152 pixels horizontally by 870 pixels vertically, depending on the resolution of the display
- Auto-configuring

Apple Convolution

- Convolution available for RS-170 interlaced video to up to 8 bits per pixel (256 colors) on the Macintosh Display Card 8/24

Color lookup table

- In 24-bit mode, provides direct access to 16.7 million colors, driving 8-bit DACs (digital-analog converters) for each of the three RGB channels

- In other modes, provides a palette of up to 256 colors out of 16.7 million

Output signals

- Modes: RGB (analog) and gray scale
- Video: RS-343 standard. Supports RS-170 timing standard for interlaced video with overscan and underscan modes.
- Sync: Separate or composite depending on display resolution; negative-going; TTL

Raster rates

- Variable raster rates under software control
- Vertical refresh: 66.7 or 75 hertz depending on display resolution
- Dot clock: 12.2727, 30.24, 57.2832, or 100 megahertz depending on display resolution

Power consumption

7 watts

DISPLAY MODES SUPPORTED

Display	Macintosh Display Card 4/8
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Apple High-Resolution Monochrome Monitor	640 x 480 pixels 2, 4, 16, or 256 gray levels
AppleColor High-Resolution RGB Monitor	640 x 480 pixels 2, 4, 16, or 256 colors
Apple Macintosh Portrait Display	640 x 870 pixels 2, 4, or 16 gray levels
Apple Two-Page Monochrome Monitor	1,152 x 870 pixels 2, 4, or 16 gray levels
Interlaced video devices	640 x 480 pixels 2, 4, 16, or 256 colors

Display	Macintosh Display Card 8/24
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Apple High-Resolution Monochrome Monitor	640 x 480 pixels 2, 4, 16, or 256 gray levels
AppleColor High-Resolution RGB Monitor	640 x 480 pixels 2, 4, 16, 256, or 16.7 million colors
Apple Macintosh Portrait Display	640 x 870 pixels 2, 4, 16, or 256 gray levels
Apple Two-Page Monochrome	1,152 x 870 pixels

Monitor	2, 4, 16, or 256 gray levels
Interlaced video devices	640 x 480 pixels 2, 4, 16, 256, or 16.7 million colors (Apple Convolution enabled up to 256 colors)
Apple Color Display (14")	640 x 480 pixels 2, 4, 16, or 256 colors
Macintosh 16-inch Color Display	832 x 624 pixels 2, 4, 16, or 256 colors
Macintosh 21-inch Color Display	1,152 x 870 pixels 2, 4, 16, or 256 colors

Article Change History

06/28/93 - Revised to include 14", 16", and 21" Color Displays
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