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Display Card 8•24 GC: Specifications (Discontinued)

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TOPIC ----------

This article give specifications for the Display Card 8/24 GC.

DISCUSSION ----------

Display Card 8/24 GC Specifications

System Requirements

To use the Macintosh Display Card 8/24 GC, you'll need a personal computer in the Macintosh II family with an available NuBus slot, System Software Version 6.0.5 or later, and a minimum of 2 megabytes of memory. For the Macintosh II, IIx, and IIcx, you need the 32-bit QuickDraw software to run 24-bit color applications.

Technical Specifications

Graphics coprocessor
Advanced Micro Devices Am29000 RISC-based processor running at 30 megahertz.

On-board memory
2 megabytes of VRAM used as display frame buffer and processor instruction memory, which can be expanded via SIMM sockets with the Macintosh Display Card DRAM Expansion Kit to hold an additional 2 megabytes of DRAM, for processing of large off-screen graphics. You can expand memory up to 8 megabytes via third-party SIMMs. 64 kilobytes of SRAM used as processor instruction cache.

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 display

resolution, auto-configuring.

Apple Convolution
Convolution available for RS-170 interlaced video to up to 8 bits per pixel (256 colors).

Interface
NuBus; plugs into any Macintosh II slot with NuBus master and slave block transfer modes supported.

Connector
15-pin D-style

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
20 watts (In systems with all NuBus slots utilized, the power requirements of all cards installed should be added together to ensure that the NuBus power draw is not exceeded. For more information, see the Macintosh owner's guide.)

DISPLAY MODES SUPPORTED

Display	Macintosh Display Card 8/24 GC
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 Monitor	1,152 x 870 pixels 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)

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