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Centris 610 & 650, Quadra 800: VRAM and Pixel Depth (7/94)

Article Created: 22 March 1993

Article Reviewed/Updated: 28 July 1994

TOPIC -----

This article describes the memory configurations necessary to support each of the video modes at specific pixel depths on the Macintosh Centris 610 and 650, and the Quadra 800.

The information in this article relative to the Centris 610 and Centris 650 is also relevant to the Quadra 610 and Quadra 650.

DISCUSSION -----

The frame buffers on the Centris 610, Centris 650, and Quadra 800 systems support a variety of pixel depths, from 1 to 16 bits per pixel (bpp). The supported pixel depths (1, 2, 4, 8, or 16 bpp) depend on the display resolution and the amount of VRAM present. The fully expanded capability of all three systems is the same: 1MB of VRAM. As with the Quadra 950, these systems can be expanded using 256K (128K x 16) 80 nanosecond VRAM SIMMs (although the Centris 610 requires only 100 ns VRAM).

The following chart lists the Centris 610 and 650 and the Quadra 800 built-in video's maximum pixel depth supported, depending upon the VRAM configuration:

Display size -----	512K VRAM -----	1MB VRAM -----
12-inch landscape 384 x 512	16 bpp	16 bpp
12-inch Monochrome 640 x 480	8 bpp	8 bpp
13-inch RGB & VGA 640 x 480	8 bpp	16 bpp
SVGA 800 x 600	8 bpp	16 bpp
15-inch Portrait (b/w) 640 x 870	4 bpp	8 bpp

16" Color, 832 x 624	8 bpp	16 bpp
19" Color, 1024 x 768	4 bpp	8 bpp
2-Page Display (b/w) 1152 x 870	4 bpp	8 bpp
21" Color 1152 x 870	4 bpp	8 bpp
PAL		
underscan-640x480	8 bpp	16 bpp
overscan-768x576	8 bpp	16 bpp
NTSC		
underscan-512x384	8 bpp	16 bpp
overscan- 640x480	8 bpp	16 bpp

Article Change History:

28 Jul 1994 - Added reference to Quadra 610 and 650 to aid in searching.

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Keywords: <None>

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19960215 11:05:19.00

Tech Info Library Article Number: 11844