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Quadra 610: Specifications 3/94 (Discontinued)

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TOPIC -----

This article provides technical specifications for the Macintosh Quadra 610 computer.

DISCUSSION -----

Microprocessor

- MC68040, 25-MHz clock speed, 32-bit data bus
- Integral FPU (floating-point unit), except in the USA's 8/160 configuration
- Integral PMMU (Paged Memory Management Unit) and 8K-cache architecture

Memory

- Comes with 8MB of RAM on the logic board
- Expandable to 68MB of RAM by adding Single Inline Memory Modules (SIMMs) to two 72-pin slots. (Doesn't support 1MB, 2MB, or 64MB 72-pin SIMMs.) RAM must be 80 ns or faster.
- Includes RAM disk software
- 1MB ROM

Disk Drives

- One built-in Apple SuperDrive 1.4MB floppy disk drive
- One internal 160MB or 230MB
- Accommodates one 5.25-inch half-height device, such as the AppleCD 300i internal CD-ROM drive

Video Display

- Supports all Apple displays
- Works with a wide range of third-party displays, including some 19-in., VGA, SVGA, NTSC, and PAL monitors

Video RAM (VRAM)

VRAM must be 80 ns or faster.

512K Standard Supports:

- 32,768 colors on the Macintosh 12-inch RGB Display
- 256 colors on the AppleColor High-Resolution RGB Display (13"), Macintosh Color Display (14"), and Macintosh 16-inch Color Display
- 256 shades of gray on the Macintosh 12-inch Monochrome Display
- 16 shades of gray on the Macintosh Portrait Display (15")
- 16 colors on the Macintosh 21-inch Color Display

1MB Option Supports:

- 32,768 colors on the Macintosh 12-inch RGB Display, AppleColor High-Resolution RGB Display (13"), Macintosh Color Display (14"), and Macintosh 16-inch Color Display
- 256 shades of gray on the Macintosh 12-inch Monochrome Display and Macintosh Portrait Display (15")
- 256 colors on the Macintosh 21-inch Color Display

System Software

 Macintosh System software version 7.1 with System Enabler 040 ver. 1.1

Interfaces

-
- Internal expansion slot for one processor-direct or 7-inch NuBus expansion card (requires adaptor)
 - SCSI interface for connecting up to six external peripheral devices
 - AAUI-15 Ethernet connector (optional)
 - Two serial (RS-232/RS-422) ports
 - One video port for color and monochrome displays of various sizes and resolutions
 - One sound-output port (stereo) for external amplifier or headphones, and CD playthrough
 - One sound-input port for monaural sound input
 - Two Apple Desktop Bus (ADB) ports for a keyboard, mouse, and other devices

Sound Generator

-
- Custom integrated circuit that drives a stereo miniature headphone jack (22 kHz sample rate)

Keyboard and Mouse

-
- Several ADB keyboards with numeric keypads available
 - Apple Desktop Bus Mouse II

Clock/Calendar

-
- Custom integrated circuit with long-life lithium battery

Disability Access

 CloseView, Easy Access, and visible-beep software are built in. These and third-party options provide alternative input and output devices

Power Requirements

- Line voltage: 100 to 240 V AC, RMS single phase, automatically configured
- Frequency: 47 to 63 Hz
- Power: 210 W maximum, not including display power

ADB power Requirements

- Maximum current draw for all ADB devices: 500 mA
(three ADB devices maximum recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (depending on the model used)

Size and Weight

Main Unit:

- Height: 3.4 in. (8.5 cm)
- Width: 16.3 in. (41.5 cm)
- Depth: 15.6 in. (39.7 cm)
- Weight: 14.0 lbs (6.4 kg) Weight varies depending internal devices installed.

Mouse:

- Height: 1.3 in. (3.3 cm)
- Width: 2.4 in. (6.2 cm)
- Depth: 4.2 in. (10.7 cm)
- Weight: 4.0 oz. (0.10 kg)

Operating Environment

- Operating temperature: 50 to 104° F (10 to 40° C)
- Storage temperature: -40 to 116.6° F (-40 to 47 °C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

Article Change History:

26 October 1993 - added reference to lack of FPU in 8/160 configuration.
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