



# Tech Info Library

## Macintosh Quadra 800: Specifications (Discontinued)

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TOPIC -----

This article gives the technical specifications for the Macintosh Quadra 800 computer, which was discontinued on 14 March 1994.

DISCUSSION -----

### Microprocessor

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- Motorola 68040, 32-bit architecture, 33 MHz clock speed; main logic board clock 33 MHz
- Integral Paged Memory Management Unit (PMMU), Floating Point Unit (FPU), and 8-kilobyte cache architecture

### I/O Speed

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- 25 MHz

### Memory

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- Comes with 8MB of RAM standard and four memory expansion slots for 60ns 72-pin SIMMs. Current Apple SIMMs don't work in the Quadra 800. It doesn't support 1MB, 2MB, or 64MB 72-pin SIMMs.
- Expandable to 136MB of RAM by installing 32MB SIMMs in each of the four SIMM slots.

### Disk Drives

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- Built-in Apple SuperDrive 1.4MB floppy disk drive
- 230MB or 500MB internal Apple SCSI hard disk drive (optional)
- Support for two internal SCSI devices, such as a CD-ROM or DAT drive, or SCSI hard disk drive (several capacities available)

### Video Display

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- Up to 16 bits per pixel (bpp) video support for all Apple monitors standard (Macintosh Color Display (14-inch) Macintosh 16" Color Display and require 1MB VRAM.)

- Supports all Apple monochrome and color monitors, including:
  - Macintosh 12" RGB Display
  - Macintosh 12" Monochrome Display
  - AppleColor High-Resolution RGB Monitor
  - Macintosh Color Display (14" display)
  - Apple Macintosh Portrait Display
  - Macintosh 16" Color Display
  - Macintosh Two-Page Monochrome Monitor
  - Macintosh 21" Color Display
- Supports some other non-Apple monitors, including VGA, SVGA, NTSC and PAL 19" monitors.

#### Video RAM

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- 512K VRAM, upgradable to 1MB for display of more colors or shades of gray.

#### Interfaces

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- One Apple Desktop Bus (ADB) port, supporting a keyboard, mouse, and other devices daisy-chained through a synchronous serial bus.
  - Two serial (RS-232/RS-422) ports, 230.4 kilobits per second maximum (up to 0.920 megabits per second if clocked externally)
  - SCSI bus interface
  - Video port to support RGB and monochrome monitors of various sizes and resolutions
  - Three internal NuBus expansion slots.
  - One 68040 PDS (processor-direct slot) provides access to the CPU for highest possible performance.
  - Stereo sound output port capable of delivering sound to both channels of a stereo device
  - Sound input port for monaural sound input.
  - Two audio line input ports (stereo input is mixed to a monophonic signal)
  - AUI-15 Ethernet connector

#### Keyboard

- 
- Supports all ADB (Apple Desktop Bus) keyboards.

#### Mouse

- 
- Apple Desktop Bus Mouse II; mechanical tracking, optical shaft, or contact encoding.

#### Sound Generator

- 
- Custom sound chip drives stereo miniature phone jack headphones or stereo equipment.

#### Clock/Calendar

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- Custom chip with long-life lithium battery.

#### Microphone

- Electret, omnidirectional; output voltage is 4 millivolts, peak-to-peak, at normal volume.

#### Disability Access

- CloseView, Easy Access, and visible beep included with system software. These built-in features and third-party options provide alternative input and output tools for people with disabilities.

#### Electrical Requirements

- Line voltage: 100 to 240 volts AC
- Frequency: 50 to 60 Hz, single phase
- Power: 200 watts maximum, not including monitor power

#### ADB Power Requirements

- Maximum current draw for all ADB devices: 200 milliamps
- Mouse draws 80 milliamps.
- Keyboard draws 25 to 80 milliamps, depending on the keyboard model used.

#### 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. (3,048m)

#### Size and Weight

- Main unit
  - Height 14.25 inches (46.2 cm)
  - Width 8.9 inches (22.5 cm)
  - Depth 16 inches (40.5 cm)
  - Weight 24 lb. (16.7 kg) varies with disk drive options installed
- Mouse
  - Height 1.1 inches (2.8 cm)
  - Width 2.1 inches (5.3 cm)
  - Depth 3.8 inches (9.7 cm)
  - Weight 6 oz. (.17 kg)

#### Noise Level

< 40 db (floor standing position) measured from the seated operator position.

#### Article Change History:

21 Oct 1994 - Corrected dimension specs.

18 Mar 1994 - Added "Macintosh" to title.

14 Mar 1994 - Added discontinued information announced 14 March 1994.

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