Macintosh Quadra 840AV: Specifications (7/93)

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TOPIC ---

This article gives the technical specifications for the Macintosh Quadra
840AV computer.

DISCUSSION --

Microprocessor

• Motorola 68040, 32-bit architecture, 40 Mhz clock speed
• Integrated floating-point unit (FPU)
• Paged Memory Management Unit (PMMU)
• 8 KB Cache

Digital signal processor (DSP)

• AT&T 3210 running at 66.67 Mhz
• Used for sound, speech recognition, telecommunications, and other
  real-time processing tasks

Memory

• 8 MB of RAM standard (varies depending on model ordered).
• Four memory expansion slots for 60ns 72-pin SIMMs. Supported SIMM sizes
  are 4,8,16,and 32 MB.
• Expandable to 128 MB of RAM by using 32 MB SIMMs in each of the four SIMM
  slots. (Note: Dealer Installation Required).
• 256 bytes of non-volatile parameter memory (PRAM).
• 2 MB ROM (Two 512k by 16 chips).

Disk Drives

• One Built-in Apple SuperDrive 1.4MB floppy disk drive that uses
  high-density floppy disks and reads, writes, and formats Macintosh,
  MS-DOS, OS/2, and ProDOS disks.
• Support for three internal SCSI devices, two of which may be used for
  removable media such as an internal CD-ROM drive. One of the internal
  SCSI devices may be a full height drive or a drive array. (230 MB, 500
  MB, and 1 GIG options available).

- Optional internal Apple CD-ROM drive (see above).
- Optional external SCSI hard disk drive (many capacities available).

Video Display

- Supports all Apple displays up to 21 inches.
- Supports some other non-Apple monitors, including VGA, SVGA, NTSC, and
  PAL 19" monitors.

Video RAM

- 1 MB VRAM expandable to 2 MB. Upgrading VRAM to 2 MB permits 24 bit
  display (millions) on monitors up to 16-in. and 16 bit (thousands) on
  21-in. color monitor.
- Four memory expansion slots for 80ns 256K SIMMs.
- VRAM is shared between graphics window and video window.
- Maximum video window size at a color depth of 16 bits is 640 X 480.

Interfaces

- Three internal NuBus expansion slots, including one with a digital-audio
  video connector (DAV)
- One Apple Desktop Bus (ADB) port, supporting a keyboard, mouse, and
  other devices
- AAUI-15 Ethernet connector
- Two serial (RS-232/RS-422) ports (Printer & Modem/GeoPort).
- Two S-Video ports, one each for input and output.
- Two composite video ports, one each for input and output.
- SCSI interface for connecting up to a total of seven SCSI devices.
- Sound-out port for stereo playback from CDs or Macintosh audio
  applications
- Stereo sound-input port (supports 16-bit stereo audio)
- One monitor out port.

Networking

- Built-in Ethernet
- Serial port for AppleTalk
- Integrated GeoPort telecommunications architecture for data, fax, and
  voice connectivity.

Sound Generator

- DSP-based 16 bit stereo audio
- Sample rates: 8 Khz to 48 Khz

Keyboard

- Several Apple Desktop Bus keyboards with numeric keypads available.

Mouse

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

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   contact encoding.
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Clock/Calendar

• Custom integrated circuit with long-life lithium battery.

Apple PlainTalk Microphone

• The microphone is unidirectional and optimized for use with speech
  recognition. (Microphone bundled with all units sold in the USA, available
  as a separate item outside the USA.)

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 VAC, RMS single phase, automatically
  configured.
• 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: 500 milliamps (a maximum of
  three Apple Desktop Bus devices is recommended)
• Mouse draws 10 milliamps.
• Keyboard draws 25 to 80 milliamps, depending on the keyboard model used.

Size and Weight

Main unit

• Height 14.25 inches (30.6 cm)
• Width   7.75 inches (19.7 cm)
• Depth 16.0 inches (39.6 cm)
• Weight* 24 pounds   (10.9 kg)

   * Weight varies based on internal devices installed.

Mouse

• Height   1.3 inches (33 mm)
• Width   2.4 inches (61.7 mm)
• Depth   4.2 inches (107.3 mm)
• Weight   4   ounces (0.10 kg)

Operating Environment

• Operating temperature: 50 degrees to 104 degrees F

(10 degrees to 40 degrees C)
- Storage temperature: -40 degrees to 116.6 degrees F
  (-40 degrees to 47 degrees C)
- Relative humidity: 5% to 95 non condensing
- Maximum altitude: 10,000 ft. (3,048m)

System Software Requirements

- Requires System 7.1 or later and the System Enabler 088.

Article Change History:
9 August 1993 - added VRAM SIMM specifications
30 July 1993 - added correct name of System Enabler.
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