Macintosh Centris, Quadra 660AV: Specifications (Discontinued)

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TOPIC ---

This article gives the technical specifications for the Macintosh
Centris 660AV and Quadra 660AV computer.

DISCUSSION --

Microprocessor

• Motorola 68040, 32-bit architecture, 25 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 55 Mhz
• Used for sound, speech recognition, telecommunications, and other real-time
  processing tasks.

Memory

• 8 MB of RAM standard: 4 MB of RAM soldered onto the logic board, and one
  4 MB SIMM installed in one of memory expansion slots.
• Two memory expansion slots for 70ns 72-pin SIMMs. Supported SIMM sizes are
  4, 8, 16, and 32 MB.
• Expandable to 68 MB of RAM by using 32 MB SIMMs in both 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 1.4 MB floppy disk drive that uses high-density
  floppy disks and reads, writes, and formats Macintosh, MS-DOS, OS/2, and
  ProDOS disks.
• Support for two internal SCSI devices, one of which may be used for
  removable media, such as an internal CD-ROM drive.
• One internal hard disk (80 MB, 230 MB, 500 MB 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 in.
- Supports some other non-Apple monitors, including VGA, SVGA, NTSC, and PAL
  19" monitors

Video RAM

- 1 MB VRAM. (VRAM is non-expandable)
- 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

- One internal NuBus expansion slot via NuBus adapter, which includes support
  for digital-audio video (DAV) connector. (Only 7 inch NuBus cards are
  supported.)
- 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 contact
  encoding.

Clock/Calendar

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- 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: 47 to 63 hertz, single phase
- Power: 86 watts maximum. (Does not include 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: 3.4 inches (8.5 cm)
- Width: 16.3 inches (41.5 cm)
- Depth: 15.6 inches (39.7 cm)
- Weight*: 14.0 pounds (6.4 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% noncondensing

* Maximum altitude: 10,000 ft. (3,048m)

System Software Requirements

Requires System 7.1 or later and the System Enabler 088.

Article Change History:
20 January 1994 - Added Quadra 660AV name.
30 July 1993 - added correct name of System Enabler.
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