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Macintosh IIvx: Specifications (Discontinued 10/93)

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Revised:        10/21/93
Security:       Everyone
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TOPIC --

This article provides the technical specifications for the Macintosh
IIvx computer system.

Microprocessor

• 68030, running at 32 MHz
• 68882 math coprocessor, running at 32 MHz
• Integral Paged Memory Management Unit (PMMU)

Cache

• 32K cache

Memory (DRAM)

• 4MB of RAM standard
• Expands to up to 68MB of RAM by installing four 16MB SIMMs in the
  expansion bank
• Includes RAM disk software
• 80 ns fast page mode (or faster)

Disk storage

• 1.4MB internal Apple SuperDrive
• Support for one 3.5-in. hard disk drive
• Support for one 5.25-in. half-height device, such as the AppleCD 300i
  internal CD-ROM drive.

AppleCD 300i configuration

- operates at twice the speed of ordinary CD-ROM drives
- Data streaming rate, double speed (2x)
  - Mode 1: 300 KB/sec
  - Mode 2: 342 KB/sec
- Automatic lens cleaning and double front-loading door for dust protection
- Auto-inject caddy loading
- Support for multi-session Kodak Photo CD format
- Support for bootable CDs
- 5MB RAM
- 1MB video RAM

Video display

- Supports Apple monochrome and color monitors, including:
  - Macintosh 12" Monochrome Display
  - Macintosh 12" RGB Display
  - AppleColor High-Resolution RGB Monitor
  - Macintosh Color Display
- Supports some VGA monitors

Video RAM (VRAM)

- 512K minimum supports 256 colors on Apple color video displays listed above
- Expandable to 1MB for support of 32,000 colors on the same displays

Interfaces

- Three internal NuBus expansion slots
- One accelerator slot
- SCSI bus interface
- Video port to support RGB and monochrome monitors of various sizes and resolutions
- One sound output port for stereo playback from CDs and monaural playback of Macintosh sounds
- One sound input port
- Two serial (RS-232/RS-422) ports, 230.4 Kbit/sec maximum (up to 0.920 Mbit/sec if clocked externally)
- Two Apple Desktop Bus (ADB) ports, supporting a keyboard, mouse, and other devices daisy-chained through a synchronous serial bus

Keyboard

- Supports all Apple Desktop Bus keyboards

Mouse

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

Sound generator

- Custom Sound Chip drives stereo miniature headphone jack

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Clock/calendar
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• Custom chip with long-life lithium battery

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Microphone
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• Electret, omnidirectional; output voltage is 4 mV, peak to peak, at
  normal volume

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

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Electrical requirements
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• Line voltage: 100 to 240 V AC, RMS automatically configured
• Frequency: 50 to 60 Hz, single phase
• Power: 112 W maximum, not including monitor power

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ADB power requirements
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• Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB
  devices is recommended)
• Mouse draws 10 mA
• Keyboard draws 25 to 80 mA, depending on the keyboard model used

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

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Size and Weight
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Main unit:
• Height: 6.0 in. (15.2 cm)
• Width: 13.0 in. (33.0 cm)
• Depth: 16.5 in. (41.9 cm)
• Weight: 25 lbs. (11.3 kg)
  weight varies with internal devices installed

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Mouse
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```
• Height: 1.1 in. (2.8 cm)
• Width: 2.1 in. (5.3 cm)
• Depth: 3.8 in. (9.7 cm)
• Weight: 6 oz. (170 g)

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System Software Requirements
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Macintosh IIvx uses System 7.1

Article Change History:
05 November 1992 - Revised to include DRAM specifications.

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