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Performa 600: Specifications (7/94)

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TOPIC -----

This article provides the specifications for the Macintosh Performa 600 computer system.

DISCUSSION -----

Processor

MC68030, 32-bit architecture, 31.3344 MHz clock frequency, integrated Paged Memory Management Unit (PMMU)

Coprocessor

Optional MC68882 floating-point unit, 31.3344 MHz clock frequency

Memory

- Comes with 4 MB of RAM (5 MB of RAM for internal CD-ROM version), expandable to 68 MB. Four SIMM slots require 80ns (or faster) fast-paged mode RAM.

- 1MB ROM

- 256 bytes of non-volatile parameter memory (PRAM)

Video RAM

512K video RAM, upgradable to 1 MB (Internal CD-ROM version comes with 1 MB of VRAM).

- 512K video RAM supports the following modes:

- Macintosh 12" RGB Display (512 x 384 pixels) at 1, 2, 4, 8, and 16 bits per pixel
- Macintosh 12" Monochrome Display, AppleColor High-Resolution RGB Monitor, Macintosh Performa and Performa Plus Display and the Macintosh Color Display (640 x 480 pixels) at 1, 2, 4, and 8 bits per pixel

- 1 MB video RAM supports the following modes:

- Macintosh 12" RGB Display (512 x 384 pixels) at 1, 2, 4, 8, and 16 bits per pixel
- Macintosh 12" Monochrome Display (640 by 480 pixels) at 1, 2, 4 and 8 bits per pixel
- AppleColor High-Resolution RGB Monitor, Macintosh Performa and Performa Plus Display and the Macintosh Color Display (640 x 480 pixels) at 1, 2, 4, 8 and 16 bits per pixel

Disk Drives

- Apple SuperDrive 1.4 MB high-density floppy disk drive
- Internal Apple SCSI hard disk drive (third- or half-height, 80 MB to 400 MB)
- Support for a second internal half-height 5.25-inch SCSI device, such as a AppleCD 300i CD-ROM drive or a hard disk drive
- External SCSI port supports up to six additional SCSI devices

Interfaces

- Two ADB ports support keyboard, mouse, and other daisy-chained devices via synchronous serial bus (maximum of three devices).
- Three NuBus expansion slots accommodate expansion cards with a maximum power budget of 15 watts per slot.
- One PDS (processor-direct slot) accommodates an accelerator card with a maximum power budget of 5 watts.
- Two RS-232/RS-422 serial ports, 230.4 Kbits/second maximum (up to 0.920 Mbit/sec if clocked externally).
- SCSI interface supports up to six external SCSI devices.
- Sound output port capable of delivering monophonic sound from computer generated sounds to both channels of a stereo device. Audio CD's deliver stereo sound to the port. (Audio CD's can play in mono through the built-in speaker on the Performa 600)
- Sound input port for monaural sound input

AC Line Input

- Line voltage: 100-240 volts AC, RMS automatically configured
- Frequency: 50-60 Hz single-phase
- Power: 112 watts maximum, not including monitor power

AC Line Output

-
- Output receptacle: 100-240 volts AC, RMS, 3 ampere maximum

DC Power

-
- 112 watts maximum

+5 volt	15.0 amps
+12 volt	2.5 amps
-12 volts	0.6 amps

Clock/Calendar

-
- CMOS custom chip with long-life lithium battery

Displays

The internal video logic supports a variety of color and monochrome monitors, including:

- Macintosh Performa Display
- Macintosh Performa Plus Display
- Macintosh Color Display
- Macintosh 12" Monochrome Display
- Macintosh 12" RGB Display
- AppleColor High-Resolution RGB Monitor
- 640 x 480 pixel VGA displays (special adapter cable required)
- Other third-party monitors

Monitors not supported by Performa 600's internal video are supported by NuBus video (or display) cards.

Input Devices

-
- Standard or extended Apple keyboard with ADB connector
 - ADB mouse: mechanical tracking, optical shaft, or contact encoding
 - Microphone: electret type, omnidirectional, power provided by the computer. Output voltage is 4 millivolts peak to peak at normal speaking volume.

Dimensions

-
- Weight 11.3 kg (25 lb.)
 - Height 152 cm (6 in.)
 - Width 330 mm (13 in.)
 - Depth 419 mm (16.5 in.)

Environment

-
- Operating temperature: 10° C to 40° C (50° F to 104° F)
 - Storage temperature: -40° C to 47° C (-40° F to 116.6° F)
 - Relative humidity: 5% to 95% (noncondensing)

- Altitude: 0 to 3048 m (0 to 10,000 ft.)

Software Already Installed

- System 7 software for Performa computers, designed specifically to make the Performa easy for everyone in the family to use.
- At Ease software, which helps prevent other users from accidentally erasing your valuable files.
- Macintosh PC Exchange software so you can work with MS-DOS and Windows disks you bring home from work.
- Application software, including a program that combines word processing (for memos and letters, spreadsheet (for financial calculations), and graphics (for drawing and painting).

Article Change History:

- 26 Jul 1994 - Expanded information on sound out capabilities.
- 19 Jan 1993 - Updated to include memory configuration of internal CD ROM version.
- 09 Nov 1992 - Updated to further expand list of display options.
- 02 Nov 1992 - Updated to list of displays, and to clarify SCSI information.

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