



Tech Info Library

Performa 410: Specifications (7/94)

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Security: Everyone

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TOPIC -----

This article provides technical specifications for the Macintosh Performa 410 computer.

DISCUSSION -----

Microprocessor

- MC68030, 32-bit architecture, 16 MHz clock speed
- CMOS custom clock/calendar with long-life lithium battery

Memory

- 4MB RAM on logic board, expandable to 10MB via two SIMM slots using 30-pin, 80ns (nanosecond) SIMMs.
- 512K Video RAM (VRAM)

Video Display

- Apple Performa Display standard:
 - 14-inch color display
 - 640 by 480 pixels
 - 0.39 mm dot pitch
 - Meets the strictest international magnetic-field emissions guidelines (SWEDIAC MPR2)
 - 256 colors displayed with standard 512K VRAM

Storage

- One internal SuperDrive 1.4MB high-density floppy-disk drive, reads disks from Macintosh, Apple II, MS-DOS, and Windows systems.

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- One internal 80MB SCSI hard disk drive
- Optional external SCSI hard disk drive (many capacities available)
- Optional external AppleCD CD-ROM drive

Modem

- TelePort/Bronze for Macintosh Performa (from Global Village Communication, Inc.)
- GlobalFax software (send-only fax) for 9600-baud faxing from any application to fax machines worldwide (upgradable to receive fax via software)
- Modem also serves as 300/1200/2400-baud data modem
- No separate power adapter required

Power Input

- Line voltage: 90 to 240 volts AC, RMS automatically configured
- Frequency: 47 to 63 Hz single phase
- Power: 50 watts maximum, not including display power

Interfaces

- One Apple Desktop Bus (ADB) port supports a keyboard, mouse, and other devices daisy-chained through a low-speed, synchronous serial bus
- Two serial (RS-232/RS-422) ports, 230 kilobits per second maximum (up to 0.920 megabits per second if clocked externally)
- SCSI interface for connecting up to six external devices
- Video port supports RGB and monochrome monitors of various sizes and resolutions
- Sound output port capable of delivering monophonic sound to both channels of a stereo device
- Sound input port for monaural sound input (monaural 8-bit sound, sampled at 22 or 11 kHz)
- Internal expansion slot for one processor-direct expansion card

Keyboard and Mouse

- Apple Desktop Bus (ADB) keyboard with numeric keypad and two-level tilt adjustment
- Apple ADB Mouse II

Apple Desktop Bus Power Requirements

- Maximum current draw for all ADB devices: 200 milliamperes (mA)
- Recommended maximum of three ADB devices
- Mouse draws 10 mA
- Keyboard draws 25 mA

Microphone

- Hands-free omnidirectional electret microphone included

Sound Generator

Custom sound chip, including mono sampling generator capable of driving stereo miniature phone jack headphones, or stereo equipment by sending the same output into each channel.

Software

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- Macintosh System Software version 7.1P5 with Launcher, designed specifically for Performa computers.
 - At Ease software lets adults share the computer with children -- while protecting valuable data.
 - Macintosh PC Exchange lets you work with MS-DOS and Windows disks.
 - Application software: a selection of productivity and communication tools already installed on the hard drive.
 - ClarisWorks 2.0 by Claris
 - Quicken 4 by Intuit
 - Best of Homeworks Templates by Paradygn
 - Click Art Performa Collection by T/Maker
 - TelePort Fax/Modem software by Global Village
 - American Heritage Dictionary 3rd Edition by WordStar
 - Mario Teaches Typing by InterPlay
 - Spectre Challenger by Velocity & Penninsula Gameworks
 - Super Munchers by MECC

Disability Access

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- CloseView, Easy Access, and "visible beep" software are built in.
 - Third-party options provide other alternative input and output devices

Size and Weight

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- Main Unit
 - Weight: 8.8 pounds (4.0 kg)
 - Height: 3.2 inches (81 mm)
 - Width: 12.2 inches (310 mm)
 - Depth: 15.0 inches (382 mm)
 - Mouse
 - Weight: 4 ounces (0.10 kg)
 - Height: 1.3 inches (33 mm)
 - Width: 2.4 inches (61.7 mm)
 - Depth: 4.2 inches (107.3 mm)
 - Keyboard
 - Weight: 2 pounds (1 kg)
 - Height: 1.8 inches (44 mm)
 - Width: 16.5 inches (418 mm)
 - Depth: 5.6 inches (142 mm)

Environment

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- Operating temperature: 10 to 40 C (50 to 104 F)
 - Storage temperature: -40 to 47 C (-40 to 116.6 F)

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- Relative humidity: 20% to 80% (noncondensing)
- Maximum altitude: 3048 m (10,000 ft.)

Service and Support

- One year limited warranty
- One year free in-home service
- Toll-free help line
- Support for non-Apple software is provided by the respective software publishers.

Ordering Information

- M1985LL/A - Macintosh Performa 410 with 4MB of RAM and an internal 80MB hard disk.

Article Change History:

- 26 Jul 1994 - Expanded sound generation capabilities.
- 10 Dec 1993 - Changed System Software version to 7.1P5.
- 16 Nov 1993 - Deleted reference to FPU socket
- 26 Oct 1993 - Eliminated references to displays other than the bundled one.

Support Information Services

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