Tech Info Library

Performa 460: Specifications (7/94)

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Revised:        7/26/94
Security:       Everyone


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TOPIC -------------------------------------------------------------


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


DISCUSSION --------------------------------------------------------


Microprocessor
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• MC68030, 32-bit architecture, 33 MHz clock speed
• Socket for optional 68882 FPU
• CMOS custom clock/calendar with long-life lithium battery


Memory
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• 4MB RAM on logic board, expandable to 36MB via one 72-pin SIMM slots
• 512K Video RAM (VRAM) for 256 colors on the Apple Performa PLUS Display.
  VRAM is expandable to 768K for 32,000 colors.


Video Display
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• Apple Performa Display standard:
  - 14-inch color display
  - 640 x 480 pixels
  - 0.39mm dot pitch
  - Meets international magnetic-field emissions guidelines
    (SWEDAC MPR2)


Storage
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• One internal SuperDrive 1.4MB high-density floppy-disk drive, reads disks
  from Macintosh, Apple II, MS-DOS, and Windows systems
• One internal 80MB SCSI hard disk drive
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- 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

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

- Macintosh System Software version 7.1P, 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.

Disability Access

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

Size and Weight

- Main Unit
  Weight: 8.8 lb. (4.0 kg)
  Height: 3.0 inches (77 mm)
  Width: 12.2 inches (310 mm)
  Depth: 15.0 inches (382 mm)
- Mouse
  Weight: 6 oz. (0.17 kg)
  Height: 1.1 inches (27.9 mm)
  Width: 2.1 inches (53.3 mm)
  Depth: 3.8 inches (96.5 mm)
- Keyboard
  Weight: 2 lb. (1 kg)
  Height: 1.8 inches (44 mm)
  Width: 16.5 inches (418 mm)
  Depth: 5.6 inches (142 mm)

Environment

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

Article Change History:
26 Jul 1994 - Expanded information on sound generation.

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