Macintosh IIfx: Specifications (Discontinued)

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TOPIC ---

This article provides specifications for the Macintosh IIfx computer.

DISCUSSION --

CENTRAL PROCESSING UNIT (CPU)
- Microprocessor : 40 MHz MC68030 CPU
- Address Bus : 32-bit
- Registers (32-bit) : 16 general purpose data and address, two 32-bit
  Supervisor stack pointers, ten special purpose control registers
- Addressing Modes : 18
- 256-byte instruction cache and 256-byte data cache
- Built-in Paged Memory Management Unit (PMMU)

COPROCESSOR
- MC68882 40 MHz floating-point unit (follows IEEE standards)

OPERATING SYSTEM
- Macintosh System Software 6.0.5 or later
- A/UX 2.0 (Apple UNIX) or later

MEMORY
- 4 or 8 MB RAM (Random Access Memory), up to 128 MB using third-party RAM
  80ns, 64-pin SIMM
- 4 or 8 MB Parity RAM 60ns, 64-pin SIMM
- Built-in 32K Static RAM Cache, zero wait state operation
- 512K of ROM (Read-Only Memory)
- 256 bytes of parameter memory with built-in battery backup
- Optional Parity Support
- Supports overlapping reads and writes to DRAM

I/O PROCESSORS
- IOP: Two dedicated I/O processors manage low-level I/O tasks for the
  serial ports, floppy disk drive(s), and Apple Desktop Bus, providing
  higher levels of overall system performance.

MOUSE
- Apple Desktop Bus Mouse (ADB) mechanical tracking, optical shaft or

contact encoding 100 +- 10 pulses per inch (3.94 +- 0.39 pulse per mm)
of travel

DISK DRIVE
- One 1.4 MB high-density (Apple SuperDrive) internal drive. Two internal
  floppy drives are supported. The unit ships with the SuperDrive, but the
  logic board also supports an 800K drive

HARD DISK DRIVE
- A 3.5" 80MB or 5.25" 160MB hard drive is available

INTERFACES
- Two Apple Desktop Bus (ADB) connectors for keyboard, mouse, and
  low-speed input devices
- Six NuBus Slots supporting full 32-bit address and data lines through a
  96-pin EuroDIN connector
- Two RS-232/RS-422 serial ports, 230.4K baud maximum (up to 0.920 Mbit
  per second if clocked externally)
- SCSI interface
- Stereo sound port for external audio amplifier

SOUND GENERATION
- Apple's custom digital sound chip provides 8-bit stereo sampling at 44.1
  kilohertz, and includes four-voice wave-table synthesis- capable of
  driving stereo headphones or other stereo equipment through the sound
  jack.

ELECTRICAL REQUIREMENTS
- Line voltage: 100 to 240 volts AC, RMS automatically configured
- Line frequency: 48 to 62 hertz single phase
- Maximum power consumption: 230 watts maximum (not including monitor
  power)

ENVIRONMENTAL REQUIREMENTS
- Operating temperature: 50 TO 104 degrees F (10 TO 40 C)
- Storage temperature: -40 TO 116.6 degrees F
- Relative humidity: 5% to 95% (non-condensing)
- Altitude: 0 to 10,000 ft (0 to 3048 m)

SAFETY AND EMI QUALIFICATIONS
- FCC part 15 Class B Computing Devices
- UL 478 Electronic Data Processing Equipment
- CSA (Canadian Standards Assn.) 220 Information Processing and Business
  Equipment

SIZE AND WEIGHT
-- Main Unit
 - Height: 5.5 inches (140 mm)
 - Width: 18.7 inches (474 mm)
 - Depth: 14.4 inches (365 mm)
 - Weight: 24 lbs. (10.9 kg) not including hard drive
-- Apple Mouse (ADB)
 - Height: 1.1 inches (27.9 mm)

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 - Width: 2.1 inches (53.3 mm)
 - Depth: 3.8 inches (96.5 mm)
 - Weight: 6 oz. (.175 kg)
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