



# Tech Info Library

## PowerBook Duo 280c: Technical Specifications (5/94)

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TOPIC -----

This article provides the technical specifications for the Apple PowerBook Duo 280c.

DISCUSSION -----

### Microprocessor

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- Motorola 68LC040 66/33-MHz microprocessor with integral memory management unit (FPU not integrated)

### Memory

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- Comes with 4MB of DRAM
- DRAM expansion up to 8MB or 12MB with PowerBook Duo 4MB or 8MB Memory Expansion Kits, or up to 40MB with third-party memory expansion cards

### Disk Storage

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- One internal 320MB hard disk
- Optional external Apple SuperDrive 1.4MB floppy disk drive

### Display

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- 8.4-in. diagonal
- Backlit, active-matrix, color liquid crystal display, 640 by 480 pixels
- Two display modes: 640 by 400 with thousands of colors; 640 by 480 with 256 colors
- LED indicator when computer is in sleep mode

### Battery

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- Nickel-metal-hydride High Capacity Type III battery provides 2 to 4 hours of computer use before recharging is necessary
- EverWatch battery-saver technology

### Keyboard

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- Built-in, 2.4-mm travel, 18-mm pitch

- Two-level tilt adjustment
- LED light when caps lock is engaged

#### Trackball

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- 19-mm diameter, dual-button trackball

#### Clock/Calendar

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- CMOS custom-integrated circuit with long-life lithium battery

#### Microphone

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- Built-in omnidirectional microphone; output voltage of 4 mV, peak-to-peak, at normal volume

#### Interfaces

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- Power adapter port
- 152-pin PDS connector for connecting PowerBook Duo Dock, PowerBook Duo MiniDock, PowerBook Floppy Adapter, or other expansion devices
- RS-422 serial port for LocalTalk networking, printers, modems, and other devices
- Port for optional internal modem

#### File-Transfer Options

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- LocalTalk cables and System 7 file sharing
- Serial cable and System 7 file sharing
- Express modem and AppleTalk Remote Access software
- Duo MiniDock with external Apple SuperDrive, SCSI disk adapter, and HDI-30 SCSI system cable
- Duo Dock or Duo Dock II internal Apple SuperDrive, optional internal hard drive, and HDI-30 SCSI system cable

#### Docking Options

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- PowerBook Duo Dock or Duo Dock II
- PowerBook Duo MiniDock
- PowerBook Floppy Adapter
- Docking systems from third-party vendors

#### Modem

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- Optional internal PowerBook Express Modem; sends and receives data and faxes at 14,400 bps. Includes Express Fax and OCR software (OCR software available in United States and Europe only).

#### Sound Generator

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- Built-in speaker
- Apple Sound Chip provides monophonic 8-bit sound and is capable of driving stereo headphones or other stereo equipment with the same signal

supplied to both channels through any optional PowerBook Duo Dock, Duo Dock II, or PowerBook Duo MiniDock

#### Sound Input

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- 4-voice sound with 8-bit analog-to-digital conversion recording, sampled at 11 or 22 kHz

#### Disability Access

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- CloseView, Easy Access, and visible-beep included with system software. These built-in solutions and third-party options provide alternative input and output devices for people with disabilities.

#### Electrical Requirements

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- Line voltage: 100 to 240 VAC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 36 W maximum

#### ADB Power Requirements

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- Maximum current draw for all ADB devices is 100 mA with Powerbook Duo MiniDock or PowerBook Floppy Adapter or 500 mA with PowerBook Duo Dock or Duo Dock II (a maximum of three ADB devices is recommended)

#### Environmental Requirements

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- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -30° to 140° F (-25° to 60° C)
- Relative humidity: 20% to 80% noncondensing
- Operating altitude: 1 to 10,000 ft. (0 to 3,048 m)
- Maximum storage altitude: 15,000 ft. (4,722 m)

#### Size and Weight

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- Thickness: 1.5 in. (3.8 cm)
- Width: 10.9 in. (27.7 cm)
- Depth: 8.5 in. (21.6 cm)
- Weight: 4.8 lb. (2.1 kg)

#### Support Information Services

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