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## PowerBook 140 and 145: How They Differ From 170

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TOPIC -----

This article compares the PowerBook 140 and 145 to the PowerBook 170, and lists the feature sets that distinguish them.

DISCUSSION -----

### Overview

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The PowerBook 140, 145, and 170 computers are notebook-size Macintosh computers.

These computers share the same architecture and specifications, with these exceptions: microprocessor speed, amount of on-board RAM, type of display, capacity of the internal hard disk drive, and presence of a coprocessor and an internal modem.

### Common Features

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The PowerBook 140, 145, and 170 computers are smaller and lighter than the Macintosh Portable and offer improved CPU performance by using a 68030 processor. They are designed to be extremely rugged and portable. Both systems are 11.25 by 9.3 by 2.25 inches and weigh under 7 pounds.

They share a common main logic board, but have different daughter boards for the processor, RAM, and ROM.

### PowerBook 140 and 145

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The PowerBook 140 and 145 have a 68030 microprocessor. In the PowerBook 140, it runs at 16 MHz; in the PowerBook 145, it runs at 25 MHz.

Both feature a backlit Film Supertwist Nematic (FSTN) display, and a built-in 40MB or 80MB hard disk. They do not include a socket for a 68882 floating-point unit (FPU). Expansion slots (connectors) are provided for RAM cards and modem cards.

Here are the features specific to the Macintosh PowerBook 140 and 145:

- Microprocessor: 68030 running at 16 or 25 MHz

- Coprocessor: NO 68882 FPU
- Video display: flat-panel, transmissive mode, FSTN LCD (liquid crystal display), 640 x 400 pixels, with on-demand CCFL (cold cathode fluorescent lamp) backlighting
- Hard disk: one internal 40MB or 80MB, 2.5-inch SCSI hard disk
- RAM: 2MB or 4MB
- Modem: Optional

#### PowerBook 170

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The PowerBook 170 has a 68030 microprocessor running at 25 MHz, a 68882 FPU, backlit active matrix display, and built-in 40MB hard disk and 2400 baud modem (USA only). Expansion slots (connectors) are provided for RAM cards and modem cards.

Here are the features specific to the Macintosh PowerBook 170:

- Microprocessor: 68030 running at 25 MHz
- Coprocessor: 68882 FPU
- Video display: flat-panel, transreflective Active Matrix LCD (liquid crystal display), 640 x 400 pixels, with on-demand CCFL (cold cathode fluorescent lamp) backlighting
- Hard disk: one internal 80MB, 2.5-inch SCSI hard disk
- Modem: one internal 20-pin connector with 2400 baud modem card installed; send facsimile capability (USA only, international decision on a country-by-country basis)

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