
The original Apple IIe

The original Apple IIe is the oldest member of the IIe family. It has the following features:

- the 6502 microprocessor
- 64K of RAM
- 40-column display (unless an optional 80-column text card is installed)

The enhanced Apple IIe

The enhanced Apple IIe includes the following changes from the original Apple IIe:

- The 65C02 microprocessor, which is an improved version of the 6502 microprocessor found in the original Apple IIe. The 65C02 uses less power, has 27 new **opcodes**, and runs at the same speed as the 6502. (See Chapter 7 and Appendix A.)
- A new video ROM containing the same MouseText characters found in the Apple IIc. (See Chapter 2.)
- New Monitor ROMs (the CD and EF ROMs) containing the enhanced Apple IIe firmware. (See Chapter 5.)
- The identification byte at \$FBC0 has been changed. In the original Apple IIe it is \$EA (decimal 234); in the enhanced Apple IIe it is \$E0 (decimal 224).
- Recent models of the enhanced IIe include the Extended 80-Column Text Card as a standard accessory, thus increasing the available RAM in the enhanced IIe from 64K to 128K.

The enhanced Apple IIe includes a number of improved features in addition to the changes listed above. The following sections describe the improved features of the enhanced IIe.

Startup drives

You can use startup (boot) devices other than a Disk II® to start up ProDOS® on the enhanced Apple IIe.

Apple II Pascal versions 1.3 and later may start up from slots 4, 5, or 6 on a Disk II, ProFile™, or other Apple II disk drive. Apple II Pascal versions 1.0 through 1.2 must start up from a Disk II in slot 6.

DOS 3.3 may be started from a Disk II in any slot.

Opcod● is short for *operation code* and is used to describe the basic instructions performed by the central processing unit of a computer.