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## Apple IIe Card: Hardware Specifications (7/93)

Article Created: 7 March 1991

### Article Change History

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- 07/12/93 - REVISED
    - To include Performa
  - 06/08/92 - REVIEWED
    - For technical accuracy

### TOPIC -----

This article gives the specifications for the Apple IIe Card for the Macintosh LC and Performa 400, 405, 430, and 450 computers. For a description of the Apple IIe Card software, search under "Apple IIe Card" and "software".

### DISCUSSION -----

#### OVERVIEW

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The Apple IIe Card lets the Apple Macintosh LC computer and Performa 400 series run the more than 10,000 Apple IIe programs. To assure compatibility with virtually all Apple IIe applications, the Apple IIe Card contains a 65C02 microprocessor -- the same one that's built in to the Apple IIe personal computer. The card comes with 128K RAM standard and can use up to 1MB of Macintosh LC RAM. A floppy-drive controller and connector ports for a 5.25-inch floppy disk drive and an Apple Joystick II are also included.

The Apple IIe Card takes full advantage of the Macintosh LC Performa 400 series' components, including the monitor, keyboard, mouse, and internal disk drives. With the superior resolution offered by Macintosh monitors, text and graphics generated by Apple IIe applications appear crisp and clear in all Apple IIe video modes. Regardless of the video mode, Apple IIe applications run at normal Apple IIe speeds -- or, using an optional mode of the Apple IIe Card, they can be run up to twice as fast.

#### SPECIFICATIONS

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Central Processing Unit

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- Processor: 65C02
- Clock Speed: 1.02MHz or 1.9MHz
- Address Bus: 16 bits
- Address Range: 2 banks of 65,536 bytes (128K total)
- Data Bus: 8 bits - Registers: Accumulator, two index registers, stack pointer, processor status, and program counter

#### Memory

- 256K of RAM (Apple IIe uses 128K of this RAM) on Apple IIe Card
- Ability to access up to 1MB of Macintosh LC RAM
- Apple IIe ROM in write-protected portions of Apple IIe Card memory

#### Text Display Modes

- 80 columns, 24 lines, 5x7 dot matrix
- 40 columns, 24 lines, 5x7 dot matrix
- All text can appear on the screen as normal, inverse, or MouseText characters

#### Graphics Display Modes

- Low-resolution color: 16 colors, 40x48
- High-resolution color: 6 colors, 280x192
- Double high-resolution color: 16 colors, 140x192
- Double high-resolution monochrome: 560x192

#### Compatible Operating Systems

- ProDOS
- DOS 3.3
- Pascal

#### Drives Supported

- Two Apple 5.25 Drives (Platinum 5.25 Drive is the only 5.25-inch drive supported)
- One UniDisk 3.5 Drive (White 3.5-inch external)
- Internal SuperDrive

#### Monitors Supported

All Macintosh LC monitors are supported (12- and 13-inch)  
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Keywords: SPECSHT

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19960215 11:05:19.00

Tech Info Library Article Number: 6571