



# Tech Info Library

## Apple IIe: Specifications (Discontinued)

--Order #: A2S2064

### --Technical Specifications

#### 1. Central Processing Unit (CPU):

- 65C02 microprocessor
- 16-bit address bus; access range 65,536 (64K) bytes
- 8-bit data bus
- Clock speed: 1.02 MHz (Up to 500,000 operations per second)

#### 2. Video:

- Text display modes:
  - a. 40-column text, 24 lines, 5 x 7 dot matrix (suitable for television or monitor)
  - b. 80-column text, 24 lines, 5 x 7 dot matrix (80-column card and monitor required)

#### 3. Graphics display modes:

- Low-resolution 16-color graphics:
  1. 40h x 48v color blocks
  2. 40h x 40v with four lines of text
- High-resolution 6-color graphics:
  1. 280h x 192v dots
  2. 280h x 160v with four lines of text.
- Double high-resolution 16-color graphics: 560h x 192 v dots; (extended 80-Column Card required)
- All graphics modes may be displayed on a television or monitor

#### 4. Character set:

- Full 128 ASCII characters:
  1. 96 characters printable in both upper and lower case
  2. 32 control characters

#### 5. Display formats:

- Normal, inverse, flashing, or Mousetext

#### 6. Memory:

- 64K RAM; Apple Extended 80-column card included
- 32K ROM, including:
  1. Applesoft BASIC interpreter
  2. System monitor routine for machine-language programming
    - a. Disassembler

- b. Automatic I/O device assignment
- c. Keyboard and screen-editing features
- d. Diagnostic routines
- e. 80-column-display firmware
- f. Mini Assembler

#### 7. Inputs/Outputs:

- Typewriter-style keyboard
  - 1. Contoured, full-travel keys for easy touch-typing
  - 2. Generates all 128 ASCII character codes and:
    - a. Two programmable function keys:
      - 1. OPEN APPLE
      - 2. SOLID APPLE
    - b. Four directional arrow (cursor-movement) keys
    - c. Special-purpose keys:
      - ESCAPE, CONTROL, CAPS LOCK, DELETE, TAB SHIFT, and RESET
    - d. All keys repeat automatically
- Multipurpose video and memory-expansion slot
- Seven additional I/O slots; full buffered, with interrupt and DMA priority structure
- NTSC-compatible (USA) and PAL color video output
- Monochromatic video output
- Speaker and sound-generation capability
- Game I/O signals:
  - 1. 3 switch inputs
  - 2. 4 analog (hand control) inputs
  - 3. 4 annunciator outputs
  - 4. 1 strobe output
  - 5. Ground and +5 volts output
- Cassette input/output

#### 8. Electrical:

- Line voltage: 108V to 132 V AC
- Typical power consumption: 11W
- Maximum power consumption: 60W
- Supply voltages:
  - 1. +5V (+/- 3%)
  - 2. +11.8V (+/- 6%)
  - 3. -5.2V (+/- 10%)
  - 4. -12V (+/- 10%)
- Maximum supply currents
  - 1. +5V: 2.5A
  - 2. +12V: 1.5A
  - 3. -5V: 250ma
  - 4. -12V: 250mA
- Safety and EMI qualifications
  - 1. -FCC Part 15, Class B Computing Devices
  - 2. -CSA 22.2, No. 154-1979
  - 3. -UL 126Z-Office Machines

#### 9. Environmental:

- External ambient operating temperature: 32 to 113 degrees F  
(0 to 45 C)

--Maximum temperature on power supply case: 130 degrees F (55 C)  
--Relative humidity: 5 to 85%

10. Physical:

--Height: 4.5 in. (11.43 cm)  
--Width: 15.13 in. (38.43 cm)  
--Depth: 18.0 in. (45.72 cm)  
--Weight: 12.0 lbs. (5.45 kg)

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