



Tech Info Library

Apple IIC: Specifications (1 of 2) (Discontinued 9/88)

Revised: 9/10/93
Security: Everyone

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--Order #: A2S4000

--Technical Specifications

1. Central Processing Unit (CPU):

--65C02 microprocessor; supports 27 more internal instructions than the 6502

--16-bit address bus; access range: 65,536 (64K) bytes

--8-bit data bus

--8-bit registers:

1. accumulator
2. index register
3. index register
4. stack pointer
5. processor status register

--Clock speed: 1.02 MHz

2. Video:

--Text display modes:

1. 40-column text, 24 lines, 5 x 7 dot matrix (suitable for television or monitor)
2. 80-column text, 24 lines, 5 x 7 dot matrix (80-column card and monitor required)

--Graphics display modes:

1. Low-resolution 16-color graphics:
 - a. 40h x 48v color blocks
 - b. 40h x 40v with four lines of text
2. High-resolution 6-color graphics:
 - a. 280h x 192v dots

- b. 280h x 160v with four lines of text.
- 3. 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

--Color output signal:

- 1. NTSC
- 2. RGB (red, green, blue) with adapter

--Character set:

--Full 128 ASCII characters
96 printable in both upper and lower case
32 graphics characters, called Mousetext

--Display formats:
5 by 7 dot matrix
Normal, inverse, flashing, or Mousetext

3. Memory:

--128K RAM; expandable to 128K with Apple Extended 80-Column Card

--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. Register examine and modify routines
 - e. 80-column-display firmware
 - f. Mini assembler

--The Apple IIC has a total of 39 integrated circuits.

4. Disk Drive:

--Built-in

--For 5 1/4-inch disks:

- 1. Recording surface: 1
- 2. Tracks per surface: 35
- 3. Sectors per track: 16
- 4. Capacity: 140K
- 5. Access:
 - a. ProDOS and Pascal: 137K
 - b. DOS: 124K

5. Inputs/Outputs:

--Typewriter-style keyboard

1. Contoured, full-travel keys for easy touch-typing
2. Generates all 128 ASCII character codes and:
3. Two programmable function keys
 - a. Open Apple
 - b. Solid Apple
4. Four directional arrow (cursor-movement) keys
5. Special-purpose keys
 - Escape, Control, Caps Lock, Delete, Tab, Shift, and Reset
6. Automatic repeat
7. Two-key rollover
8. Configuration:
 - a. Standard
 - b. DVORAK

--Speaker and sound-generation capability

1. Speaker built-in
2. Volume control knob
3. External output jack with switch

Apple Technical Communications

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