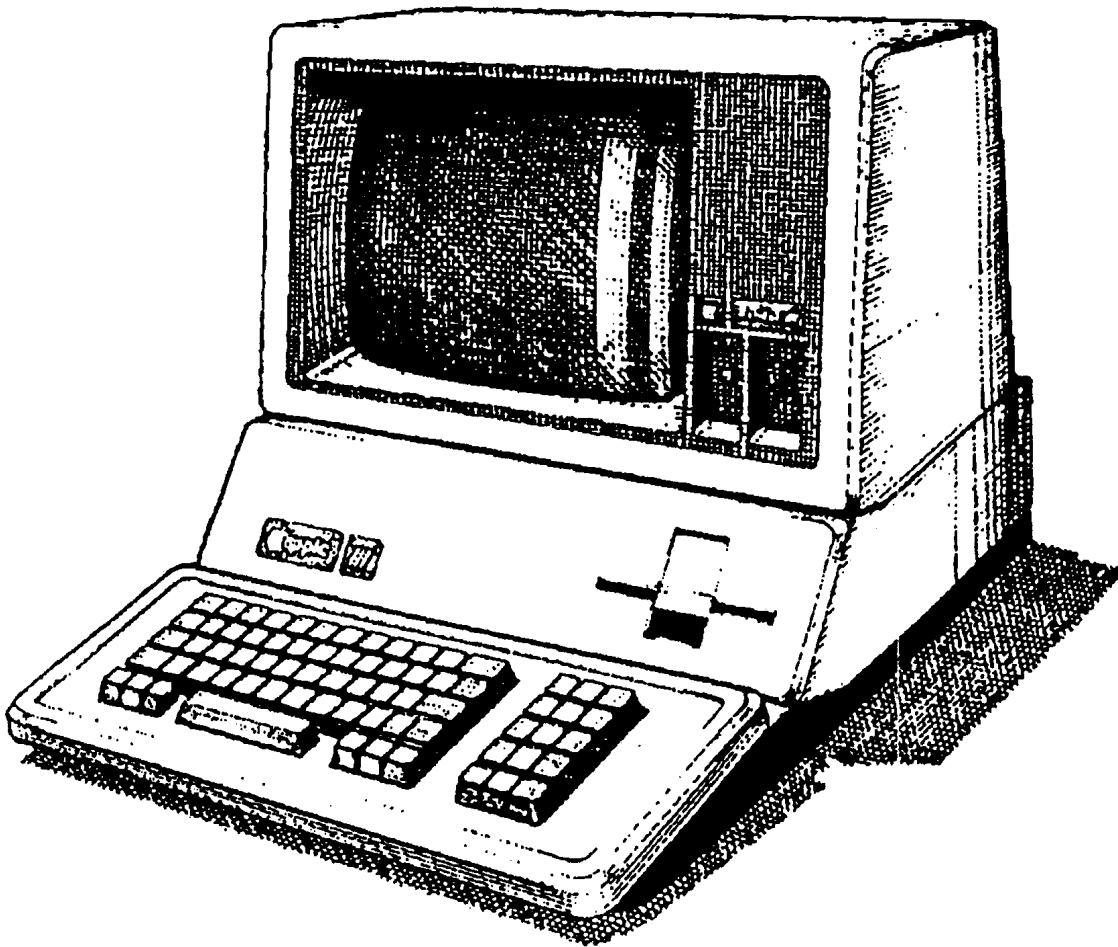




Apple /// Computer Information



DOCUMENT NAME	#
<i>APPLE III COMPUTER HARDWARE SPECIFICATIONS</i>	251
<i>Apple III Users Guide, Pre-Print Ed., July 1980</i>	

Ex Libris David T. Craig

SPECIFICATIONS AND CAPABILITIES@@

SIZE: 17.5 inches wide (44.45 cm)
 18.2 inches deep (46.22 cm)
 4.8 inches tall (12.2 cm)
 Cast aluminum base with molded plastic cover

WEIGHT: 26 pounds (11.8 kilos)

PROCESSOR: Apple designed processor utilizes 6502A as one of its major components. Other circuitry provides extended addressing capability, relocatable stack and zero page, and memory mapping.

EMULATION MODE: Provides hardware emulation of 48k byte Apple II or Apple II plus. Allows most Apple II programs to run without modification

CLOCK SPEED: 1.8 MHz with video off, 1.4MHz average
 1.0 MHz in emulation mode

MAIN MEMORY: 96K (98,304) eight-bit bytes minimum
 128K (131,072) bytes maximum
 Dynamic RAM memory

ROM MEMORY: 4K (4,096) bytes used for self-test diagnostics

POWER SUPPLY: High-voltage switching type
 +5, -5, +12, -12 volts

MASS STORAGE: One 5.25 inch floppy disk drive built-in
 140K (143,360) bytes per diskette
 Up to 3 additional drives can be connected
 by daisy-chain cable (560K bytes on-line storage)

KEYBOARD: 74 keys (61 on main keyboard, 13 on numeric pad)
 Full 128 character ASCII encoded
 All keys have automatic repeat
 Three special keys: SHIFT, CONTROL, ALPHA LOCK
 Two user-definable "Apple" keys
 Four directional arrow keys with two-speed repeat
 Four other special keys: TAB, ESCAPE, RETURN, ENTER

SCREEN: Three upper/lower case text modes:
 80 column, 24 line black-and-white
 40 column, 24 line 16 color foreground and background
 40 column, 24 line black-and-white
 All text modes have a software-definable
 128-character set (Includes upper and lower case)
 with normal or inverse display

Three graphics modes:

280x192, 16 colors (with some limitations)
140x192, 16 colors
560x192, black-and-white
plus Apple II Modes

VIDEO OUTPUT: RCA phono connector for NTSC black-and-white composite video
DB-15 type connector for:
NTSC black-and-white composite video
4 TTL outputs for generating RGB color
Composite sync signal
NTSC color composite video
+5, -5, +12, -12 volt power supplies
Color signals appear as 16-level grey scale on black-and-white video outputs

AUDIO OUTPUT: Built-in 2-inch speaker
Miniature phone-tip jack on back of Apple
Driven by six-bit digital/analog converter or fixed-frequency "beep" generator

SERIAL I/O: RS-232C compatible, DB-25 female connector
Software selectable baud rate and duplex mode

JOYSTICKS: Two DB-9 connectors for two joysticks with pushbuttons

PRINTER: One DB-9 connector (shared with second joystick)
For Apple Silentype printer

CLOCK: Can be set and read from programs
Powered by long-life replaceable watch batteries
Keeps track of month, date, day of week,
and exact time to 1/1,000th of a second

EXPANSION: Four 50-pin expansion slots inside the cabinet

SOS: Sophisticated Operating System handles all system I/O
SOS can be configured to handle standard or custom I/O devices and peripherals by adding or deleting "device drivers"

All Languages and Application programs access data through the SOS file system

LANGUAGES: Apple Business BASIC, Pascal, FORTRAN (4th quarter)