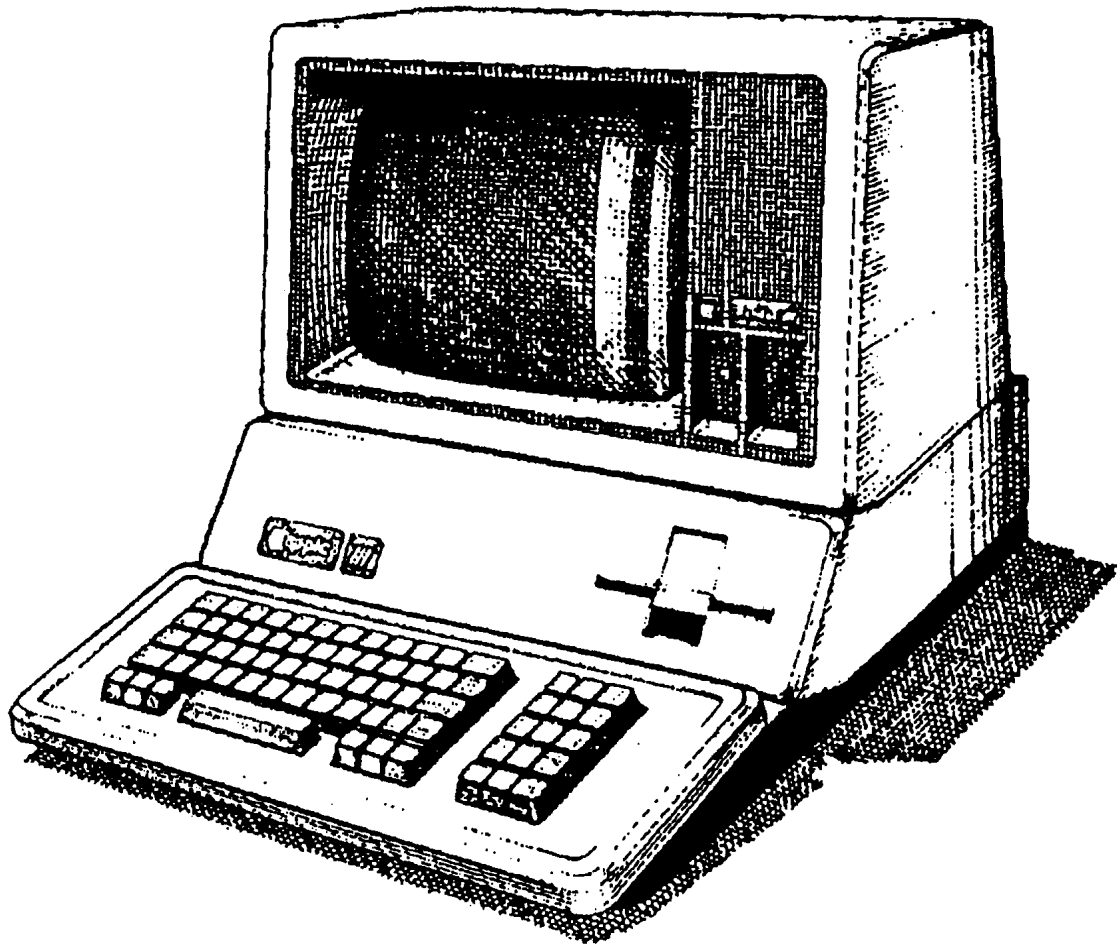




Apple /// Computer Information



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| DOCUMENT NAME | # |
| <i>APPLE III COMPUTER HARDWARE SPECIFICATION</i> | 243 |
| <i>Apple III Owner's Guide, 1981, 030-0121-B</i> | |

Ex Libris David T. Craig

General purpose communications (.RS232)

RS-232-C interface.
Configurable data rates from 110 to 9600 baud.
Configurable protocols, including XON/XOFF, ETX/ACK,
and ENQ/ACK.
Interrupt-driven, buffered, bi-directional data transfer.
Hardware handshaking option.

Serial printer (.PRINTER)

RS-232-C interface.
Configurable data rates from 110 to 9600 baud.
Interrupt-driven and buffered (output only).
Hardware handshaking option.

Audio (.AUDIO)

64 volume levels.
Produces tones from 31 to 5090 Hz (over 7 octaves).
Duration range from 0 to 5 sec (increments of 1/60 sec).

Hardware

Size: 17.5 inches wide (44.45 cm)
18.2 inches deep (46.23 cm)
4.8 inches tall (12.19 cm)
Cast aluminum base with molded plastic cover

Weight: 26 pounds (11.8 kg)

Processor: Based on the 6502B microprocessor, with extended
addressing capability

Clock Speed: 2 MHz peak, 1.4 MHz average

131,072

Main Memory: 128K (~~98,304~~) eight-bit bytes

Dynamic Random Access Memory

ROM Memory: 4K (4,096) eight-bit bytes initialization and diagnostics

Power Supply: High-voltage switching type

+5, -5, +12, -12 volts

UL approval pending

Power Req: 100 watts maximum, 107 to 132 volts, 60 Hz.

Ambient Temp: 15 to 35 degrees Celsius.

Critical factor is deformation temperature of diskette cases.

Mass Storage: One 5.25 inch (13.33 cm) floppy disk drive.

built-in 140K (143,360) bytes per diskette.

Up to 3 additional drives can be connected by "daisy chain" cables.

Keyboard: 74 keys (61 on main keyboard, 13 on numeric pad)

Full 128 character ASCII represented

All keys have automatic repeat except modifier keys

Five modifier keys: SHIFT, CONTROL, ALPHA LOCK, and two program-definable "Apple" keys

Four directional arrow keys with two-speed repeat

Four other special keys: TAB, ESCAPE, RETURN, ENTER

Screen: Three text modes:

40x24, black and white, normal and inverse

80x24, black and white, normal and inverse

40x24, 16 color, foreground and background

All text modes have a software-definable 128-character set

Four graphics modes:

280x192, black and white

280x192, 16 color, foreground and background

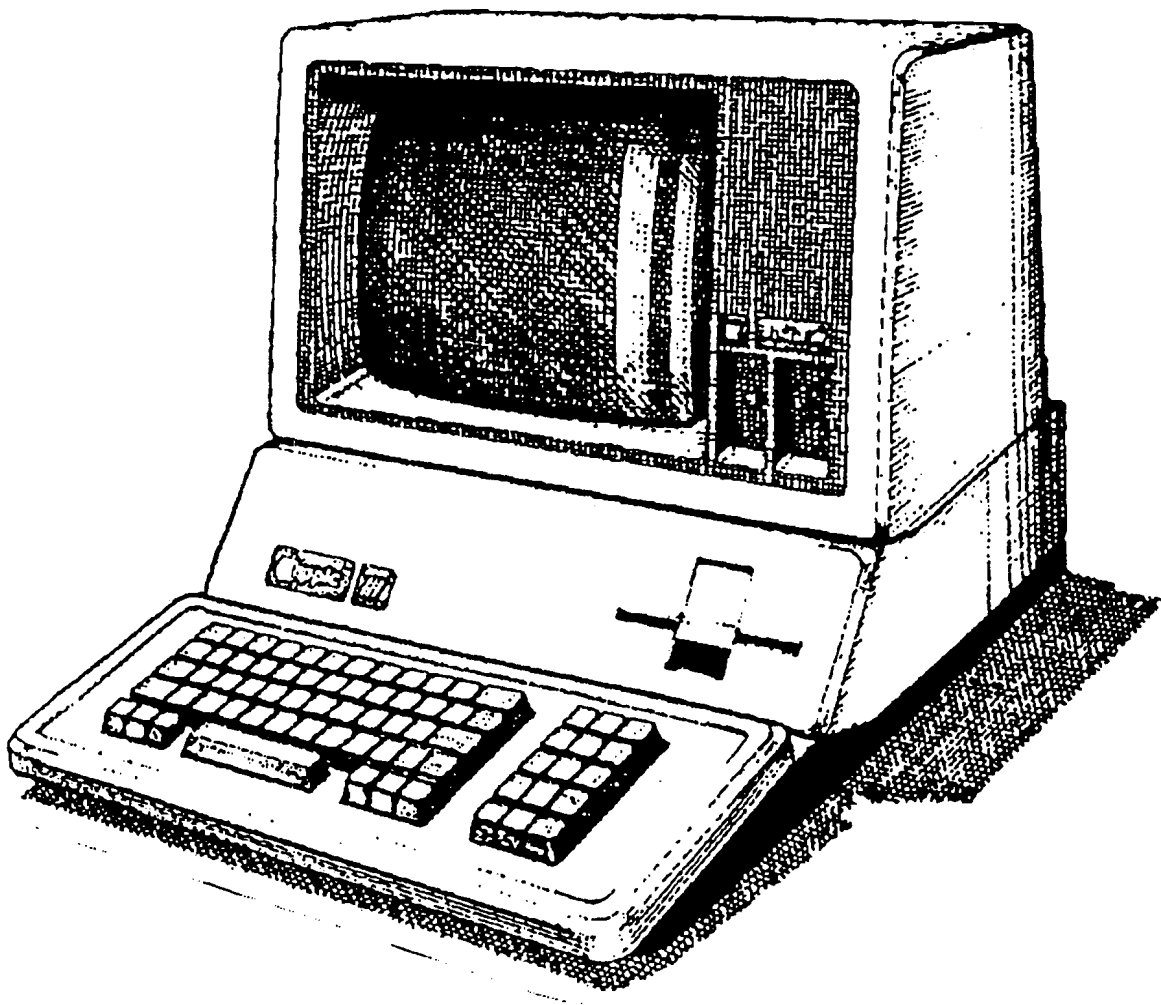
140x192, full 16 color

560x192, black and white

- Video Output:** RCA phono connector for NTSC black and white composite video
DB-15 type connector for:
 NTSC black and white composite video
 NTSC color composite video
 RGB pure video
 Composite sync signal
 +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 III
Three different audio generators:
 64 level audio port (6-bit DAC)
 One-bit square-wave generator
 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, two pushbuttons, and two switches
- Printer:** One DB-9 connector (shared with first joystick) for “Apple Silentype” printer
- Expansion:** Four 50-pin expansion slots inside the cabinet



Apple III Computer Information



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