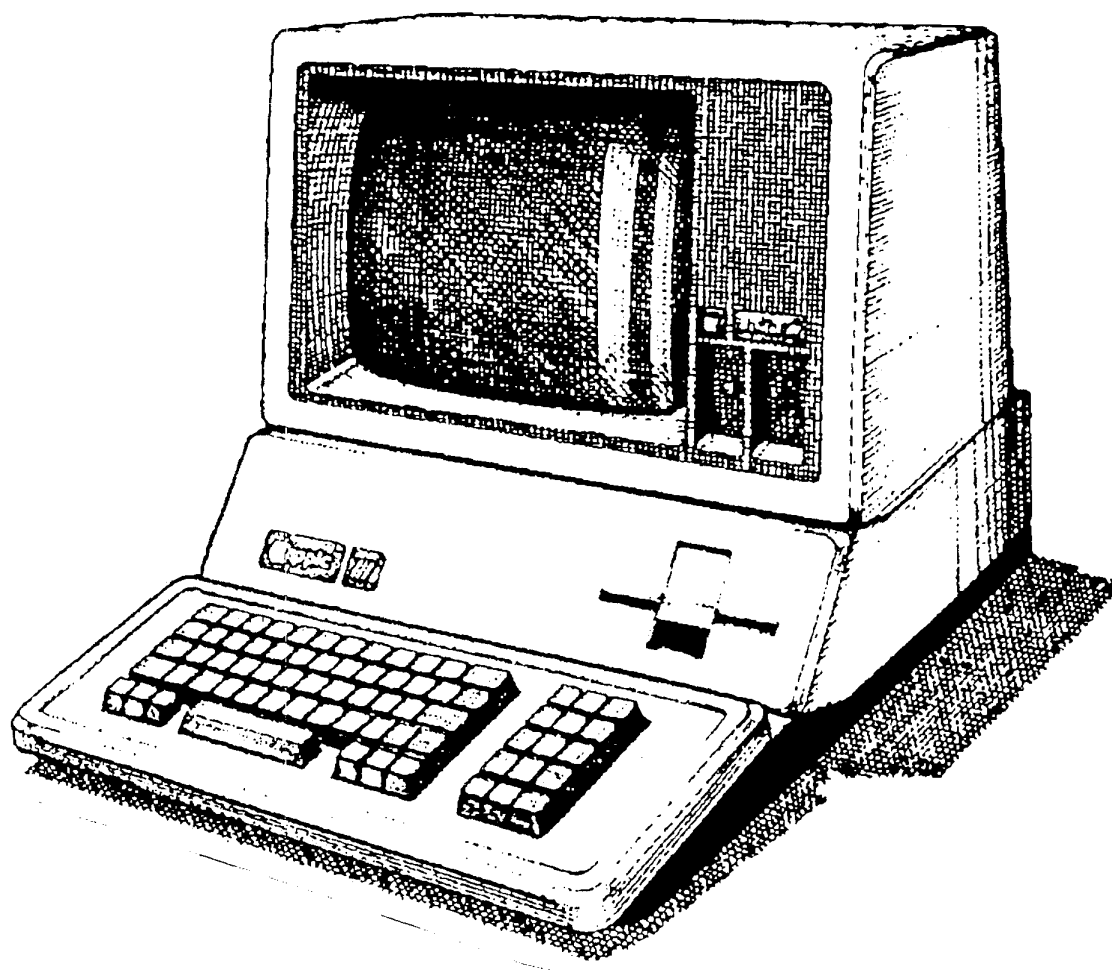




Apple /// Computer Information

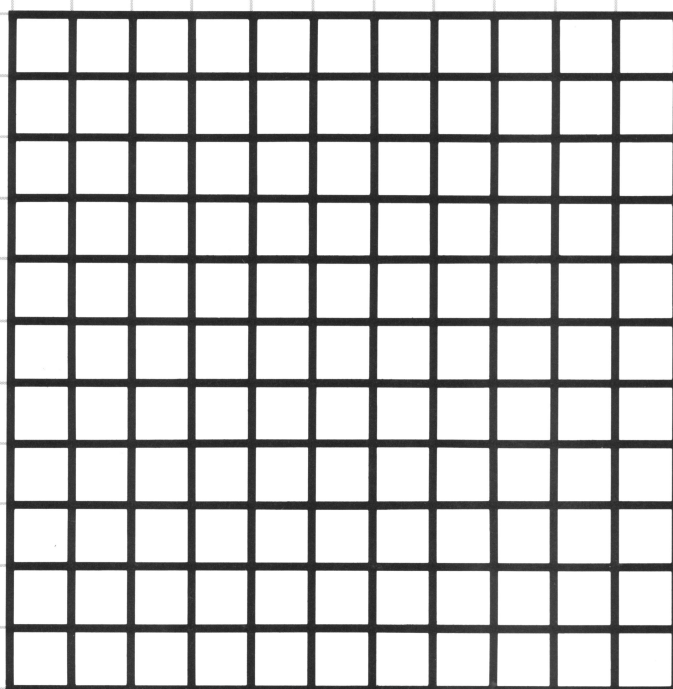


DOCUMENT NAME	#
<i>APPLE III PLUS SYSTEM DATA SHEET</i>	<i>3</i>

Ex Libris David T. Craig

Apple III Plus

System Data Sheet



EX LIBRIS: David T. Craig
736 Edgewater
[# _____] Wichita, Kansas 67230 (USA)

The Apple III Plus

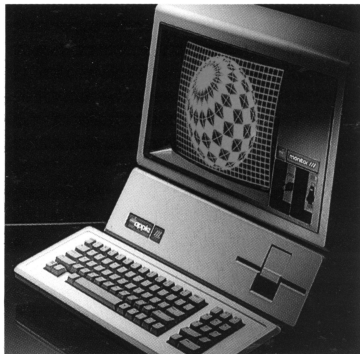
The Personal Computer That's All Business.

Decision makers in today's hectic business climate are faced with a myriad of facts and figures—and all too often, very little time to decipher, organize, and put this data to its best use.

The Apple III Plus personal computer was created to meet these challenges at all levels, in every size and every kind of business. Designed to be complete from the time it comes out of the carton, the Apple III Plus has many standard features found in minicomputers. But the system is also designed to grow with you, to keep you a step ahead as your responsibilities increase.

You can use the power of the Apple III Plus for all your business needs: for accounting, resource management, and project scheduling; to create financial forecasts, budgets, and reports; or in electronic communications, software development, and computer-assisted training. More than 400 sophisticated business programs are available for the Apple III Plus. The system also lets you utilize the extensive library of CP/M® business software, with the addition of Apple SoftCard™III. And what's more, its emulation mode lets you use most programs that run on the 48K Apple II Plus.

The Apple III Plus is the personal computer that means business ... from the company that means personal computing.



Designed complete. And ready to take on more.

The Apple III Plus is ready to go as soon as you connect a monitor and plug it into an electrical outlet—no opening it up, no additional interface cards. It comes with a built-in disk drive, video outputs for color and monochromatic displays, and a numeric keypad.

Other built-in features include:

Large user memory. The Apple III Plus has 256 kilobytes of internal memory. This means you can work with the many large business applications on the market today quickly and efficiently.

Color graphics. The 16-color graphics capability of the Apple III Plus lets you convey the meanings of charts and graphs easily, even if you're not using a color monitor. Information can be displayed either in full color or in 16 varying shades. And the Apple III Plus can be used with any color monitor, from phosphor green to full color.

High-resolution video. The Apple III Plus displays 560 by 384 dots, or 80 horizontal characters and 24 lines of text on your screen. You get enhanced readability and crystal clear graphics, right down to the corners. A wide variety of character fonts are available, along with inverse video.

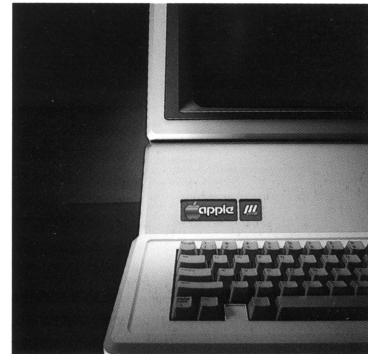
Accessory connectors. The most common accessories plug right into the Apple III Plus back panel outlets: a serial printer, a Silentype® printer, additional floppy disk drives, color and monochromatic video displays (NTSC, RGB, and composite), a modem, and hand controls. The Apple III Plus also has four inside expansion slots for additional accessories.

Clock/calendar. No more wondering which version of a report is the most recent, or when you updated your inventory. The built-in clock/calendar automatically marks your files with the date and time you last worked with them. Long-life replaceable batteries keep the clock going even when your system is unplugged or turned off.

Designed simple. So you can get fancy.

Apple III Plus lets you insert financial models into reports, add names to form letters, and turn numbers into charts. This is because its Sophisticated Operating System (SOS) treats all your files identically. Programs written for the Apple III Plus are all based on SOS formatting, so you can combine them on a ProFile™ mass storage system and move freely from one to another. The uniformity of SOS also provides an ideal environment for software development.

With Apple SOS, you can expand your Apple III Plus with ease. You don't have to figure out how to make the computer work with a new printer, disk drive, or modem, because SOS controls all communications with accessories through special files known as "device drivers." Apple III Plus programs come equipped with the most commonly used device drivers; to make programs compatible with new equipment, you simply copy a driver file for the new device onto your program disks. Your software can just as easily be revised to take advantage of SOS upgrades, and of hardware enhancements to the computer itself.



Technical Specifications

■ **Video Display:**

■ **Graphics modes:**

- 280 x 192, 16 colors (with some limitations) or 280 x 192, monochromatic;
- 140 x 192, 16 colors;
- 560 x 192, monochromatic;
- All Apple II modes (in emulation).

■ **Text modes:**

- 80-column, 24-line monochromatic;
- 40-column, 24-line, 16-color foreground and background;
- 40-column, 24-line monochromatic.

The standard 80-column, 24-line text mode is based on a resolution of 560 dots by 192 dots. A 560-dot by 384-dot monochromatic "interlace" text mode is activated with a toggle switch.

All text modes have a software-definable character set (128 characters in upper and lowercase), with normal or inverse display. Text and graphics may be displayed simultaneously.

■ **Central Processing Unit (CPU):**

Type:

Custom-designed processor based on 6502B.

Clock speed:

1.4 MHz average.

Operations per second (8-bit):

Up to 750,000.

Data bus:

Two 8-bit formats, combined for extended addressing.

Address bus:

19 bits.

Address range:

262,144 bytes (256K).

Registers:

Accumulator (A); Index Registers (X,Y); Stack Pointer (S); Program Counter (PC); Environmental Register (E); Bank (B); Zero Page (Z); Processor Status (P).

The custom-designed microprocessor circuitry of the Apple III Plus utilizes the 6502B as one of its major components. Other circuitry provides established addressing capability, relocatable stack, zero page, and memory mapping.

■ **Memory:**

256K-byte dynamic RAM.

4K ROM (initialization and self-test diagnostics).

■ **Clock/Calendar Function:**

Automatic time and date marking of files.

Can be called from all languages.

■ **Inputs and Outputs:**

■ **Keyboard:**

- 62 keys on main keyboard;
- 13 keys on numeric keypad;
- Full 128 characters; ASCII encoded;
- All keys have automatic repeat;
- Four directional arrow keys with two-speed repeat;
- Two user-definable "Apple" keys;
- Eight other special keys: SHIFT, CONTROL, ALPHA LOCK, TAB, ESCAPE, RETURN, ENTER, DELETE.

■ **Storage Devices:**

- One built in, 140K 5.25-inch floppy-disk drive
- Three additional drives can be connected by daisy-chain cable for a total of 560K bytes on-line storage.
- Up to four ProFile hard-disk drives (5 megabytes each) may be added with plug-in interface cards.

■ **Video Output:**

- RCA phono connector for NTSC monochromatic composite video.
- 16-shade scale on monochromatic displays.
- 15 pin connector for:
 - NTSC color composite video;
 - NTSC monochromatic composite video
 - RGB color video;
 - Composite sync signal;
 - Power supply voltages.

■ **Audio Output:**

- Driven by 6-bit digital/analog converter or fixed-frequency "beep" generator.
- Built-in two-inch speaker with miniature phono jack on back panel.

■ **Serial (Printer/Modem) Port:**

- RS-232C compatible, 25-pin connector;
- Software-selectable baud rate and duplex mode.

■ **Joystick/Silentype Ports:**

- Two 9-pin connectors; one port may be used for the Silentype Printer.

■ **Expansion:**

- Four 50-pin expansion slots.

■ **Languages:**

Apple Business BASIC, Apple III Pascal, Apple III COBOL.

■ **Emulation Mode:**

Apple II, allowing most 48K Apple II programs (with the exception of Pascal and FORTRAN) to run without modification.

■ **Electrical Specifications:**

Three-wire, 110-volt or 120 volt outlet; normal household AC power.

■ **Physical Specifications:**

- Height: 4.8 inches (12.20 cm)
- Depth: 18.2 inches (46.22 cm)
- Width: 17.5 inches (44.45 cm)
- Weight: 26 lbs. (11.8 kg)

The Apple III Plus meets the following agency regulations for safety and electromagnetic compatibility:

- FCC Part 15, Class B Computing Devices
- CSA 22.2, No. 154-1979
- UL 126Z—Office Machines

The Apple III Plus Personal Computer System Package

U.S. Order Number A3S1256

With your order for an Apple III Plus system, you will receive:

- Apple III Plus;
- Power cord;
- Monitor cable;
- Warranty and service information;
- Accessory Kit Containing:
 - "Read Me First" guide,
 - "Apple Presents Apple" disk,
 - Business Applications Simulations disk,
 - System Demonstration disk,
 - Apple II Plus Emulation disk,
 - SOS Utilities Apple Training Pak (manual),
 - System Utilities disk,
 - System Utilities Data disk (contains device driver files, character sets, and keyboard layouts),
 - Confidence Program (disk and manual),
 - Owner's Guide,
 - Standard Device Drivers Manual.

Product specifications may change without notice.

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CP/M is a registered trademark of Digital Research, Inc.

SoftCard is a trademark of MicroSoft Corporation.



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