

Canon
COMPUTER SYSTEMS

Software Guide

AS-100

16-bit microcomputer



Canon AS-100 Computer Unlimited Potential

Power in itself is worthless unless it is used effectively. The AS-100 is exactly the same. We packed it with the most powerful, innovative hardware features—16-bit CPU, full-color graphic display and printing capability, wide user-memory area, expandable disk storage, and a complete peripheral line-up.

The only thing that it lacks is brains. Logical intelligence to unleash its power. Without an exclusive software architecture, however, the AS-100's potential can never be realized. And no matter how good the software, it's useless unless it can be used easily. That's why we've created the friendliest software possible. To showcase the equally friendly AS-100 hardware. So you can produce the kind of professional results you need.

Multi-Operating System Construction

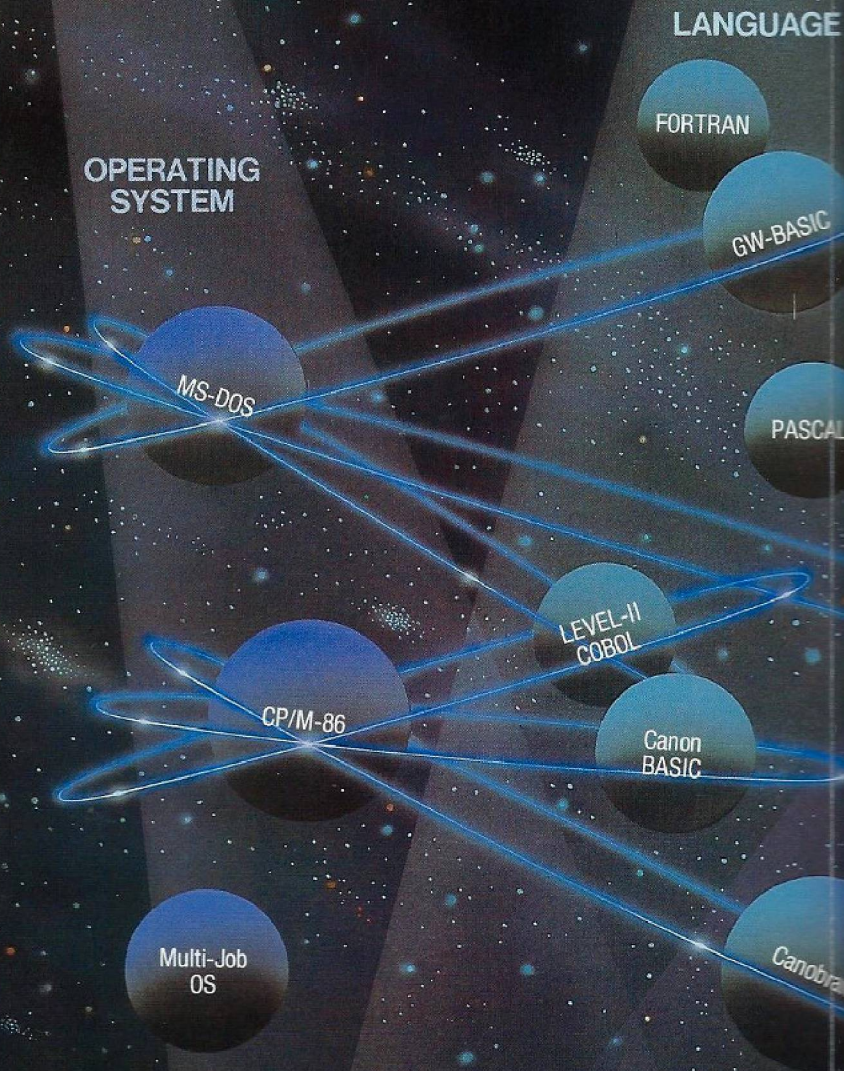
The operating system is the bridge between the hardware and the software. And with the AS-100 System, we give you a choice of operating systems, each with a character of its own, each prepared to make absolutely certain that the hardware does precisely the job that the software sets out for it to do. Depending on the hardware configuration and application requirements, you'll want to match up an operating system that gives you access to all of the AS-100's impressive features.

We've provided two of the world's most popular operating systems to use with the AS-100—CP/M-86™ and MS-DOS™. And we're already working on another one, a multi-job version made especially for the AS-100.

The most obvious advantage of the AS-100's multi-operating system capability is the almost overwhelming number of application programs and packages available on the consumer market. Again you choose what you need. If you want to switch operating systems, it's simply a matter of changing the system disk. That's all. And here's another important thing that you may not know about operating systems. They enable a multiple language support system that gives you complete control over all of the AS-100's superior hardware.

Multi-Language Support

The core of the AS-100's language support system is Canon BASIC. But we've also included GW-BASIC™, which is well adapted for use under MS-DOS, and LEVEL-II COBOL™, a language well-known for its versatility in business applications. Pascal and Fortran are also available to assist in overall system development. In the future you can count on Canon to bring you the latest in programming languages as they are introduced.



Computer Systems --- 1. Awesome Results.

APPLICATION

Word
Processor

UTILITY

Sort/
Merge

On-Line
Emulator

CX-1
Converter

CP/M-86
→ MS-DOS
Converter

Exclusive Application Software

By now you know that software is what gives the AS-100's hardware construction its real depth. The software is necessary to produce results that you can see and hold in your hand. But we also know that initial software purchases can add up quickly, greatly increasing start-up costs. And as well as being expensive, most software on the open market is not geared to the AS-100's specific strengths.

That's why we created Canobrain. A programless, general-purpose software package for business that you can put to work as soon as the AS-100 is switched on. Operation is completely interactive, which means that Canobrain tells you exactly what to do—simple enough even for the neophyte. It's table data processing and graphic functions make it a perfect decision-making tool. And we've already started adding more features—word processing, data communication, and a variety of other helpful features to make Canobrain all the more flexible.

In addition, an independent word processing program has been prepared to handle all of your organization's document creation needs. It incorporates advanced correction, editing and formatting functions that amount to tremendous savings in time, while making the most efficient use of the AS-100.

Utility Programs

An array of utility programs can be employed along with the AS-100 to compliment the hardware and relieve some of the burden from the application programs. Here are just a few of the utilities:

- * Sort/Merge Facility which assists in data file reorganization.
- * On-Line Terminal Emulator which allows the AS-100 to be used as a terminal for on-line data communication.
- * CX-1 Converter which changes programs/data written for the CX-1 so that they can be used with the AS-100.
- * CP/M-86 → MS-DOS Converter which converts files written under one of these popular operating systems so that they can be used with the other one.

*CP/M-86 is a trademark of Digital Research.
MS-DOS and GW-BASIC are trademarks of Microsoft.
LEVEL-II COBOL is a trademark of Micro Focus.*

Canon AS-100 System Hardware Specifications

CRT Display Unit (CPU) AS-100M/C

CPU Processor: 16-bit microprocessor 8088
Clock: 4M Hz

Main Memory LSI: MOS-LSI 64K-bit dynamic RAM
Capacity: Maximum 512K-bytes
128/256/384K-bytes optional memory boards

CRT Display Size: 12 inches
Display capacity: 80 characters \times 25 lines
(640 \times 400 dots)
Display color: Green (monochrome CRT)
8-colors out of 27-colors (color CRT)

Power Source AC 115V 50/60Hz 125W (M) 140W (C)
AC 120V 60Hz 1.5A (M) 1.8A (C)
AC 230V 50Hz 125W (M) 150W (C)
AC 240V 50/60Hz 125W (M) 150W (C)

Size 400mm (W) \times 344mm (H) \times 429mm (L)
(15-3/4" \times 13-1/2" \times 16-7/8")

Weight 19.5 kg (43 lb.) . . . Monochrome CRT
23 kg (51 lb.) Color CRT



Keyboard A-1111

Face Angle 4.5° to 8.5° adjustable
Size 480mm (W) \times 185mm (D) \times 32mm (T)
(18-7/8" \times 17-1/4" \times 1-1/4")
Weight 2.2 kg (4.8 lb.)

Mini-Floppy Disk Drives A-1300

Type Double-sided, double-density, double-track
5" mini floppy disk drive (2 drives)
Media Canon specified mini floppy disk MD2-512DD
Capacity: 640K-bytes/disk
Recording density: 5922 BPI
Data Transfer Speed 250K-bits/sec.
Recording Method MFM (Modified Frequency Modulation)
Access Time Seek time: 4msec/track
Head settling time: 15msec
Latency: 100msec
Size 80mm (W) \times 344mm (H) \times 370mm (L)
(3-1/8" \times 13-1/2" \times 14-5/8")
Weight 6.3 kg (14 lb.)

Floppy Disk Drive A-1330

Type Double-sided, double-density
8" floppy disk drive (2 drives)
Media Canon-specified floppy disk
Capacity: 1M-bytes/disk
Recording density: 6816 BPI
Data Transfer Speed 500K-bits/sec.
Recording Method MFM (Modified Frequency Modulation)
Access Time Seek time: 3msec/track
Head settling time: 15msec
Latency: 83msec
Power Source AC 115V 50/60Hz 50W
AC 120V 60Hz 0.7A
AC 230V 50Hz 50W
AC 240V 50/60Hz 50W
Size 180mm (W) \times 344mm (H) \times 397mm (L)
(7" \times 13-1/2" \times 15-5/8")
Weight 15 kg (33 lb.)

* Information presented in this brochure is based on specifications available November 1982 and is subject to change without notice.

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