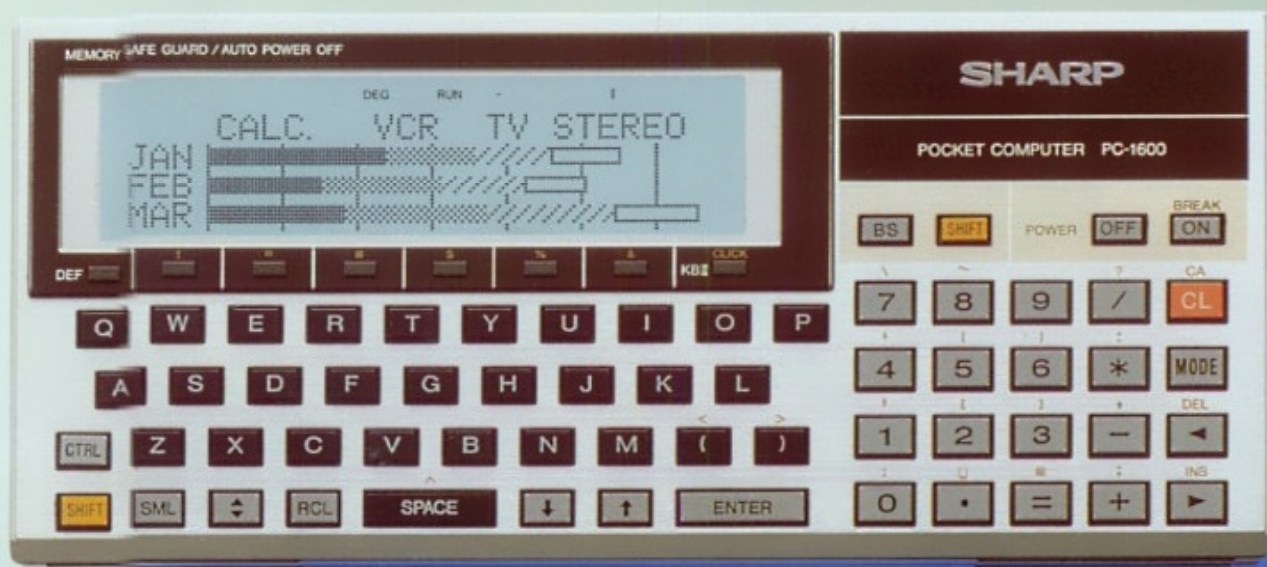


SHARP

PC-1600

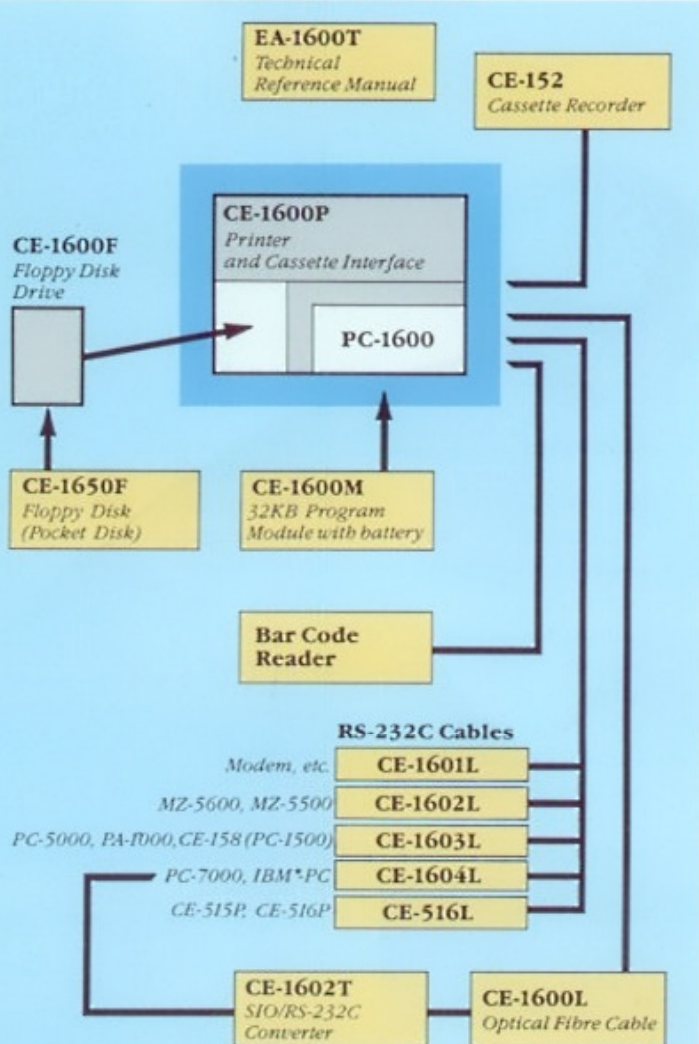
Pocket Computer

THE ULTIMATE POCKET COMPUTER



PC-1600

SYSTEM DIAGRAM



Compatible PC-1500(A) Peripheral Equipment

- CE-150 colour-graphic printer/cassette interface
- CE-151 4KB memory module
- CE-152 cassette recorder
- CE-153 software board
- CE-155 8KB memory module
- CE-158 RS-232C parallel interface
- CE-159 8KB program module
- CE-161 16KB program module
- CE-162E parallel cassette interface

NOTE

- 1) Peripheral equipment for the PC-1600 is not compatible with the PC-1500 and PC-1500A.
- 2) Operations for the CE-150, CE-162E and CE-158 when used with the PC-1600 are limited within the operation range of the PC-1500(A).
- 3) CE-151, CE-155, CE-159, CE-161, and CE-1600M can be used in slot 1.
- 4) CE-161 and CE-1600M can be used in slot 2.
- 5) CE-158 and CE-162E cannot be used with the CE-1600P.

Certain products may not be available in all countries.

PC-1600 SPECIFICATIONS

CPU:	Main CPU; SC7852 Z80 compatible (3.58MHz), LH5803 (1.3MHz) Sub CPU; LU 57813P (307.2KHz)
Display:	LCD, full graphic: Character; 4 lines × 26 digits, (7 × 5 dots) Graphic; 32 × 156 dots
Capacity:	ROM; 96KB RAM; 16KB std. (available user area: 11,834 bytes), expandable to 80KB
Program Language:	BASIC [upward compatibility with PC-1500(A)]
Keys:	65 (same as PC-1500) plus BS, CTRL, KB II, SHIFT
Power Source:	6V (DC) SUM-3, AA or R6 × 4 dry batteries Optional AC Adaptor, EA-160
Power Consumption:	0.48W
Battery Life:	Approx. 25 hours (when not using RS-232C)
Operating Temperature:	0°C ~ 40°C (32°F ~ 104°F)
Dimensions:	195(W) × 86(D) × 25.5(H)mm
Weight:	Approx. 390 g with batteries
Accessories:	2 templates, soft case, battery (SUM-3), × 4, operation manual

CE-1600P PLOTTER PRINTER/CASSETTE INTERFACE

Printing System:	XY axis plotter, 4 pens
Printing Colours:	Black, blue, green and red
Printing Digits:	Max. 160 digits
Printing Speed:	Max. 5 character/sec.
Minimum Step Width:	0.2mm (1/64")
Cassette Interface:	MIC, EAR, REM
Bus Interface:	60-pin bus/50-pin bus for CE-1600F
Power Consumption:	5.7W
Power Source:	NiCd battery, AC adaptor (supplied)
Dimensions:	320(W) × 221.5(D) × 46(H)mm
Weight:	1.6 kg

CE-1600F FLOPPY DISK DRIVE (POCKET DISK DRIVE)

Access System:	Random
Connection:	50-pin bus on the CE-1600P
Media:	2.5" floppy disk, CE-1650F
Capacity:	64KB/disk (when formatted), 128KB/disk
Power Source:	Supplied from the 50-pin bus on the CE-1600P
Dimensions:	98(W) × 122(H) × 39(D)mm
Weight:	470 g

Design and specifications subject to change without notice.

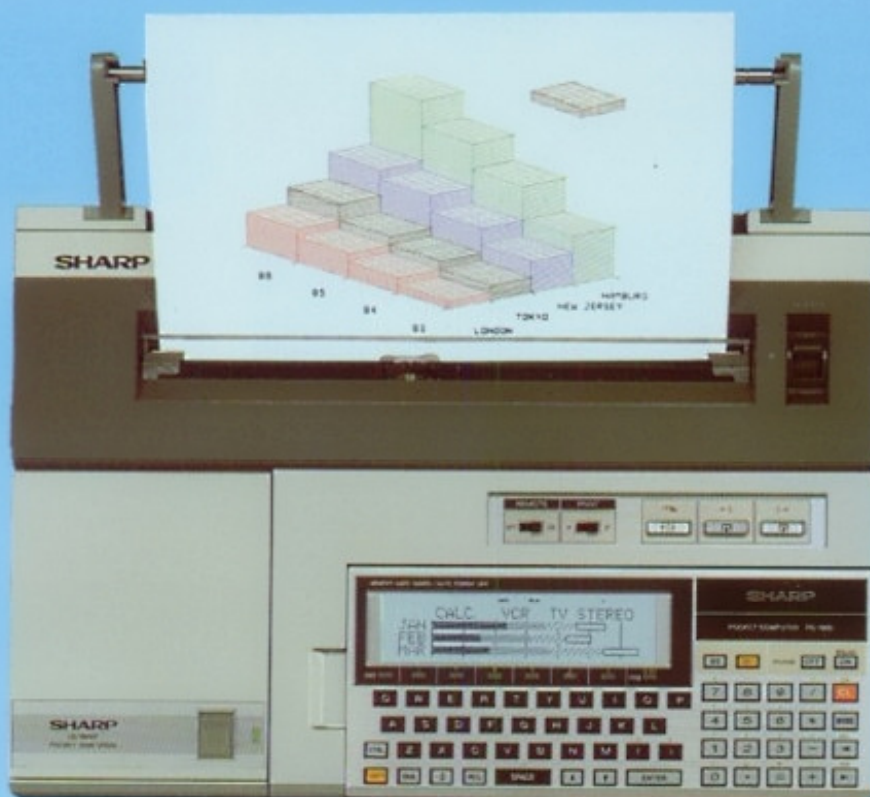
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SHARP

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A VERSATILE, SOPHISTICATED SYSTEM FOR EVERYONE



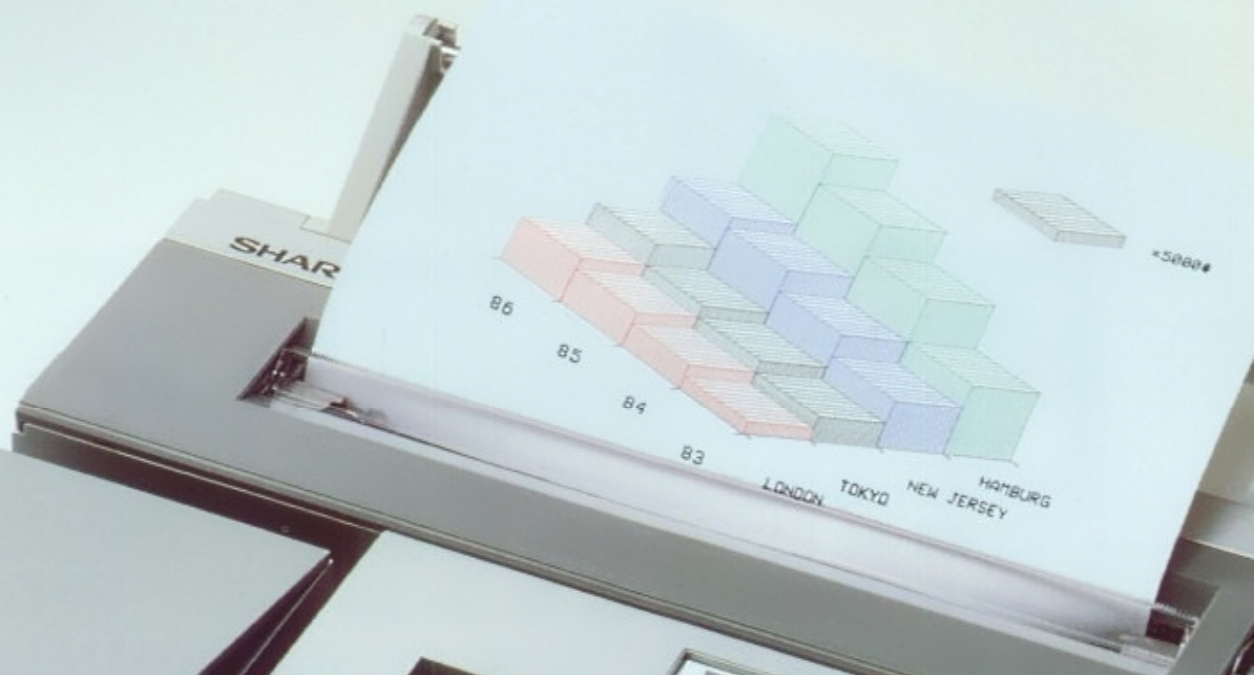
Complete PC-1600 system

Sharp's PC-1600 is a versatile and sophisticated computer system designed to help professionals perform their work more effectively and with greater efficiency. Together with its accessories, the PC-1600 provides personal automation that goes with you anywhere.

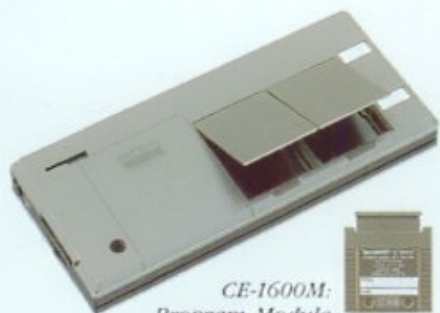
The PC-1600 delivers sophisticated data processing for a wide variety of users. For the businessperson, estimates, billings and balance sheets can be provided anywhere as required. For the engineer at a job site, complex technical computations can be performed quickly and accurately whilst in the field. For the researcher in the laboratory, data can be collected and analysed for instant results, and saved for further processing. General users can use the PC-1600's versatile features for a range of tasks, such as programming schedule reminders to create a handy personal calendar.

The Sharp PC-1600 represents the ultimate in personal automation, offering the portability and convenience of a pocket-sized computer combined with a wide selection of optional devices—a flexible, integrated system more powerful than many lap-top computers.

P C - 1 6 0 0



A VERSATILE SYSTEM TO HELP PRO



CE-1600M:
Program Module
with Battery (32KB RAM)



CE-1600L: Optical Fibre Cable

Sharp's PC-1600 is the powerful pocket computer which offers a maximum 80K-bytes of RAM. Equipped with a standard 16KB RAM, the PC-1600 can be expanded to the full 80KB simply by slipping an optional 32KB CE-1600M Program Memory Module into each of the two available memory expansion slots. Smaller capacity memory modules are also available—the CE-159 8KB Module and the CE-161 16KB Module. These versatile modules can hold data or programs for applications such as personal databases, insurance quotations,

Up to 80K-byte memory

engineering calculations, or data analysis. Memory contents are protected by a built-in battery for five years when the module is stored in the machine, and for two years on the shelf.

The PC-1600 also features a 96KB ROM containing Enhanced BASIC, a powerful computer language with an expanded command and statement set that includes communications and analogue input functions. With a full memory complement, the PC-1600 can use the popular BASIC language and provide a generous 80KB (including system area) RAM user area. Programs that previously required a larger lap-top or desk-top personal computer can now be run on a pocket computer.

The PC-1600's RS-232C port allows direct connection to personal computers for data and program file exchange, plus telecommunications access to a computer using an acoustic coupler or modem.

The Optical SIO (Serial Input/Output) Interface is designed for high-speed optical communications. When used with the optional CE-1600L Optical Fibre

Broad interface capability

Cable, the PC-1600 can achieve a data transfer rate of 38.4 Kbps. In addition, optical fibre does not conduct electricity and so is ideal in situations where connection to high-voltage equipment may pose a danger. Optical communications via the PC-1600 are ideal for the factory, laboratory or hospital.

Building a compact, integrated system is simple with the PC-1600's two handy peripheral expansion devices, the CE-1600P 4-Colour Plotter Printer and the CE-1600F Pocket Disk Drive. Combined into a single convenient unit only slightly larger than an A4-size magazine, the PC-1600 System can be carried almost anywhere. The CE-1600P 4-Colour Plotter Printer utilises a colour pen system to create graphs and reports on A4-size paper. Reports of sales figures, experimental data analysis or engineering computations can be prepared. Colour output is available anywhere—whenever

Compact integrated system expansion

is required.

The CE-1600F Floppy Disk Drive (Pocket Disk Drive) is a 2.5-inch random-access floppy drive for program and data storage newly developed by Sharp especially for pocket computers. In addition to eliminating messy cable connections to a tape recorder, the pocket disk offers significant speed advantages over cassette tape and opens up a broad new array of applications through its random data access capability.



Floppy disk (pocket)

PROFESSIONALS WORK MORE EFFECTIVELY

The PC-1600's new high-speed Z80A-compatible 8-bit CMOS CPU is nearly 2.5 times faster than that of the PC-1500(A). This nimble microprocessor is the ideal complement to the increased memory capacity offered by the PC-1600.

Until now, many complex or calculation-intensive applications were too demanding for pocket computers. But the PC-1600's fast CPU can handle such diverse tasks

High-speed CPU

as character string matching in data or multi-year compound interest computations with amazing speed and efficiency.

The PC-1600 offers broad hardware and software compatibility with Sharp's popular PC-1500(A) Pocket Computer*. Many of the most desirable hardware options, including the CE-150 Printer and various memory modules, can be used

PC-1500(A) compatibility

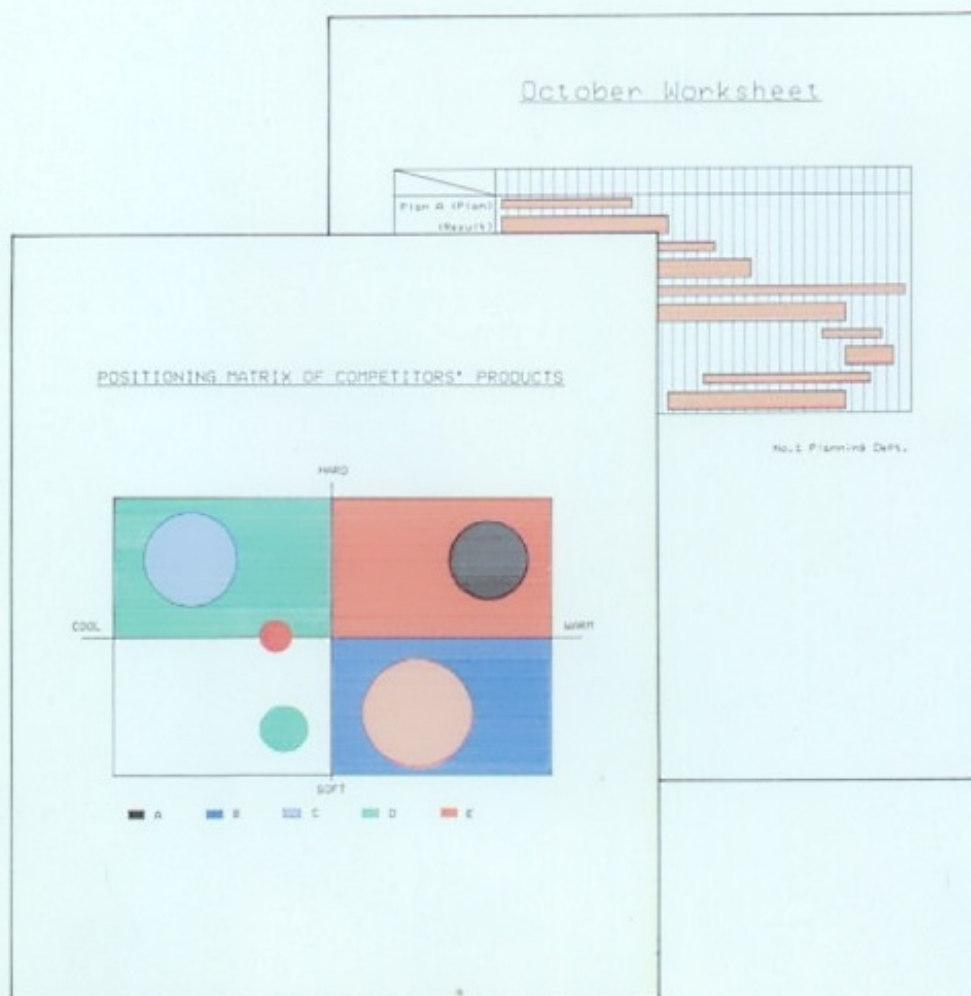
with the PC-1600. Also, in "PC-1500(A) Mode," the PC-1600 can run applications programs written in PC-1500(A) BASIC, expanding the software library available for the PC-1600.

**Upwardly compatible with the PC-1500(A) BASIC.*

A versatile "wake-up" feature is also offered with the PC-1600. Using the RS-232C

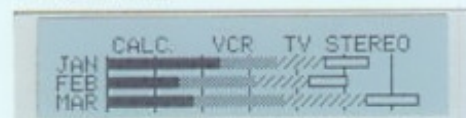
Wake-up/timer functions

communications port in combination with the built-in clock/timer function, the PC-1600 can be programmed to control external devices. For example, a message can be sent at a predetermined time by electronic mail using a telecommunications modem, or a piece of test equipment in a laboratory could be switched on. Special commands also provide programming access in BASIC to the timer, alarm, and clock function (month, date, hour, minute and second) for sophisticated real-time applications.



4-colour output on A4-size paper

The PC-1600's enlarged, 4-line x 26-character liquid crystal display allows expanded text and symbol display. For mini-graphics, the 32 x 156 dot display can be used to show a wide variety of graphic information.



Mini-graphic display