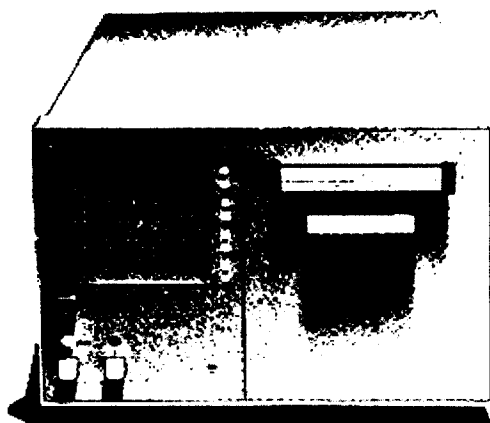




# COMPUTERS, PERIPHERALS & CALCULATORS

## Modular Computer; Desktop Computer

Models HP 9915A, HP 9825B/T



9915A

### HP 9915A Modular Computer

The HP 9915A is a modular computer that contains the heart of the HP-85 desktop system, but excludes keyboard, CRT, and tape drive. It is ideal in automated testing, measurement and control applications where durability is essential. The 9915A is a viable alternative to microprocessors and board computers, which are inexpensive but difficult to engineer, program, and develop.

#### Efficient Program Development

Programs for the HP 9915A can be developed and debugged on the HP-85 and transferred to the HP 9915A via either EPROM or magnetic tape. Applications can be running in about half the time it would take for a microprocessor or board computer.

The 9915A can accept up to 32 Kbytes of EPROM-stored programs. HP-85 software is available that allows the designer to program EPROMs with commercially available PROM programmers.

#### Flexible Design for Operator Interface

The 9915A is designed for easy operator use, but more extensive controls can be added. For applications requiring minimal attention, the 9915A's program start button and programmable front panel lights will suffice. For moderate operator interface, there are eight software-definable function keys. For extensive operator control, remote pushbuttons, LEDs, CRT displays, and custom keyboards can be added.

Since all of the HP-85's graphics capabilities are built into the 9915A, charts, histograms, block diagrams and other graphics may be easily displayed via an external CRT. CRT and keyboard interfaces are available as an option.

#### I/O Capabilities

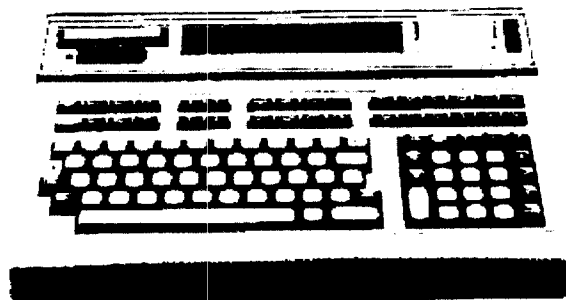
The HP-85/9915A BASIC language includes a powerful set of statements to simplify I/O, providing the user with interrupt, bit manipulation, high-speed transfer, software control of interface and easy data formatting. I/O drivers are built in, and both machines use the same plug-in interfaces: HP-1B (IEEE 488-1978), serial, 8-bit, 16-bit parallel, and binary coded decimal. The interface prices are shown on Page 590.

#### Additional Features

Peripherals available for the 9915A include printers, plotters, and flexible disc drives. HP devices such as the HP 6942A Multiprogrammer and the HP 3497A Data Acquisition, Control Unit allow analog input/output. An optional tape unit is available when it is necessary to change programs often or record test data. Its capacity is 200 K bytes, depending on whether the stored information is programs or data.

### HP 9825B/T Desktop Computer

The 9825B or 9825T Desktop Computer offers many features previously found only on minicomputers. It is particularly suited to controller applications, and is a powerful standalone device.



9825B/T

The 9825B/T is a compact computing system with built-in peripherals. The 9825B has 73 Kbytes of read/write (R/W) memory and internally integrated ROMs (read-only memories) for Strings, Advanced Programming, Plotters, General I/O and Extended I/O. The 9825T has 62 Kbytes of R/W memory, all the 9825B's built-in ROMs, and a built-in Systems Programming ROM.

A 32-character LED display and a built-in 16-character thermal printer provide alphanumeric readout. The high-speed bidirectional data cartridge holds 250 Kbytes and has an average access time of 6 seconds. File verification is automatic on recording.

Twelve Special Function keys, combined with the shift key, can handle 74 different operations. They can serve as immediate execute keys, as call keys for subroutines, and as typing aids.

#### Powerful Programming

The 9825 is programmed in HPL, a high-level language. HPL allows subroutine nesting and flags, and up to 26 simple variables and 26 multidimensional array variables. Fixed- and floating-point formats can be set from the keyboard. Syntax checking is simple; a flashing cursor in the display identifies error locations.

A live keyboard lets the user examine and change program variables, perform complex calculations, call subroutines, and record or list programs while the 9825 is performing other operations. The tape cassette can be used to record and load the entire memory automatically.

#### I/O Performance

Three I/O slots accept any of the following interfaces (prices as shown on Page 594): 98032A 16-bit parallel; 98033A BCD; 98034B HP-1B; 98035A Real Time Clock; and 98036A RS-232-C Serial. This allows the 9825 to communicate with instruments and peripherals. High-speed I/O handles data input speeds up to 400K 16-bit words/sec.

Two-level priority interrupt allows the 9825 to control several instruments or peripherals requiring attention at random rates or times. Auto restart and interface status testing enhance standalone controlling.

#### Ordering Information

	Price
9825B Desktop Computer	\$8,100
9825T Desktop Computer	\$8,600
9915A Modular Computer with 16K memory, I/O ROM and Program Development ROM	\$1,675
Opt. 001 Built-in Tape Drive	\$475
Opt. 002 Operator Interface Capability (for commercial video monitors, keyboards and remote front panel control)	\$385