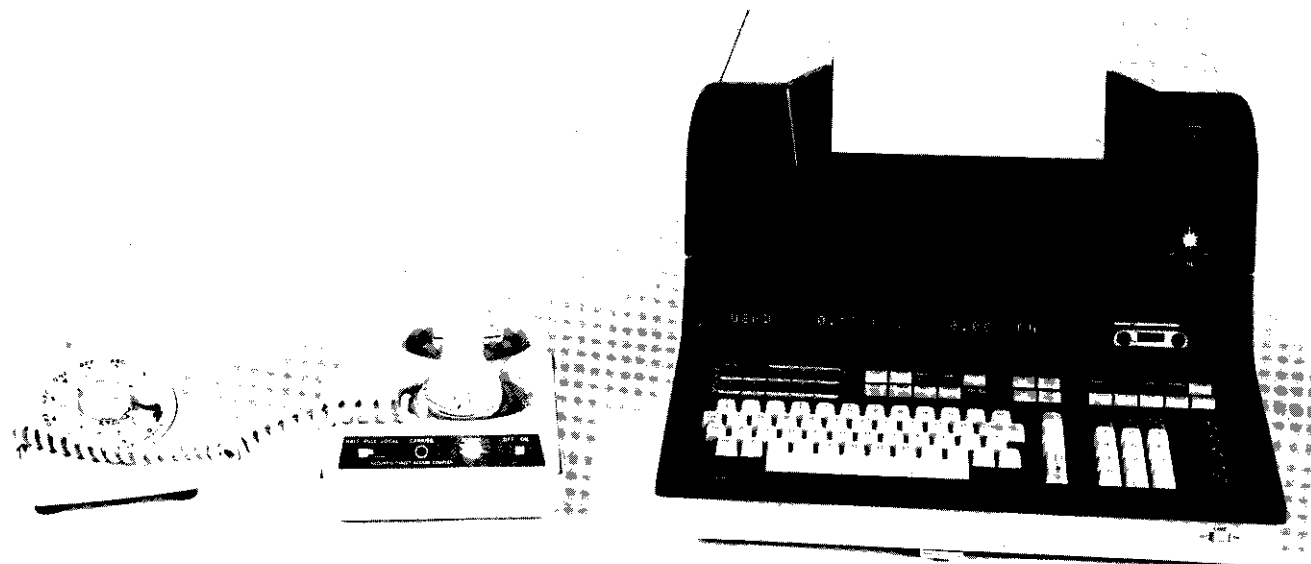


HEWLETT **hp** PACKARD

MODEL
30

11277
TERMINAL I ROM

TECHNICAL DATA FEBRUARY 1973



GENERAL

The 9830A Calculator (Model 30) allows the addition of up to 8 Add-on ROMs. Five may be added as external plug-in ROMs and three as internal plug-ins.

There is absolutely no difference in the operation of a ROM installed externally versus internally. It is a simple matter of available space and design.

Add-on ROMs provide additional capabilities by expanding the Command Set of the Model 30. This allows the user to tailor his Model 30 with exactly the peripheral control and language features he requires.

The Terminal I ROM described in this data sheet is available in internal and external configurations.

EXTERNAL — 11277B

INTERNAL — 11277F

SPECIFICATIONS

Memory:	2048 8-bit bytes (1024 words)
Power:	Supplied by the 9830A Calculator
Temperature:	0°C — 45°C
(Specification Below for External Plug-in ROM)	
Weight:	3 oz. (85 g)
Dimensions:	2.56" wide x 4.8" long x 0.8" deep (6,5 cm x 12,2 cm x 2,05 cm)



PURCHASE PLANS

Contact one of the Hewlett-Packard world-wide sales and service offices for specific prices and plans in your area.

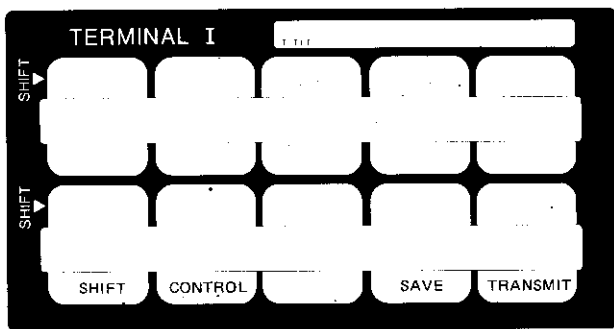
Service Contracts Available.

DESCRIPTION

The Terminal I ROM, HP Model 11277, allows the Model 30 to be used in conjunction with a modem or acoustic coupler as a terminal to a remote time-share system. Basically, the Terminal I ROM makes the calculator work like a teleprinter when communicating with a time-share system.

The calculator may also transmit or receive BASIC language programs or free text: This includes programs written in FORTRAN, ALGOL, or other programming languages.

In order to provide the necessary special characters and retain single keystroke execution, the Terminal I ROM makes use of four of the Special Function Keys.



The Terminal I ROM uses 20 8-bit bytes (10 words) of Read/Write memory to define these keys.

Two of the keys correspond to the teleprinter SHIFT and CTRL keys respectively. The SAVE function key is used to retain information transmitted from the remote time-share computer to the calculator. The TRANSMIT function is used to send program lines or instructions to the time-share system.

TERMINAL EQUIPMENT REQUIREMENTS

In addition to the 9830A Calculator and Terminal I ROM, the following equipment is necessary for the operation of the Model 30 as a terminal:

- HP Model 9866A Printer
- Low-speed modem with either a telephone data set or an acoustic coupler. The modem must be Electrical Industries Association (EIA) Standard RS-232-C compatible.
- HP Model 11206A Modem Interface Card

TIME-SHARE SYSTEM REQUIREMENTS

To use the Model 30 Calculator as a terminal the computer time-share service must offer the following options:

- No echo-back, or suppressible echo-back.
- Low-speed operation. The Model 30 and 11277 Terminal ROM are capable of transmitting up to 300 baud.
- Transmission in ASCII code.

ADDITIONAL FEATURES

The 9830A Calculator has been designed as a general purpose stand-alone calculator. This provides a number of 'bonus' features when the Model 30 is used in terminal mode.

• Savings in Connect Time

The calculator need not be connected to the time-share computer while programs are keyed in. Programs or data lines can be entered into the calculator memory, edited, and then the time-share connection made. The lines can be transmitted all at once to the time-share computer with considerable savings in connect time.

• Savings in Storage Charges

Any 'free text' lines received from a time-share system can be stored in the calculator memory as long as each line has a reference number. From the calculator memory, 'free text' lines can be stored on cassette files or on paper tape. Since most time-share services provide overnight storage to their customers at additional cost, these charges can be eliminated by using cassette or paper tape storage, as well as increasing the security of the data.

- 'Free text' lines can be printed without line numbers for text editing applications.
- The Special Function Keys can be used as typing aids for quicker and more accurate data entry.
- Typing and program errors are easily corrected with the calculator editing keys.
- The user can store and run BASIC programs in the Model 30 and perform calculations while in terminal mode.

For more information, call your local HP Sales Office or **East** (201) 265-5000 • **Midwest** (312) 677-0400 • **South** (404) 436-6181 • **West** (213) 877-1282. Or write: **Hewlett-Packard, Calculator Products Division**, P.O. Box 301, Loveland, Colorado 80537. In **Europe**: P.O. Box 85, CH-1217 Meyrin 2, Geneva, Switzerland; **Canada**: 275 Hymus Boulevard, Pointe Claire, 730, Quebec; **Japan**: YHP, 1-59-1, Yoyogi, Shibuya-Ku, Tokyo, 151; Other areas of the world: **HP International**, 3200 Hillview Ave., Palo Alto, California 94304.