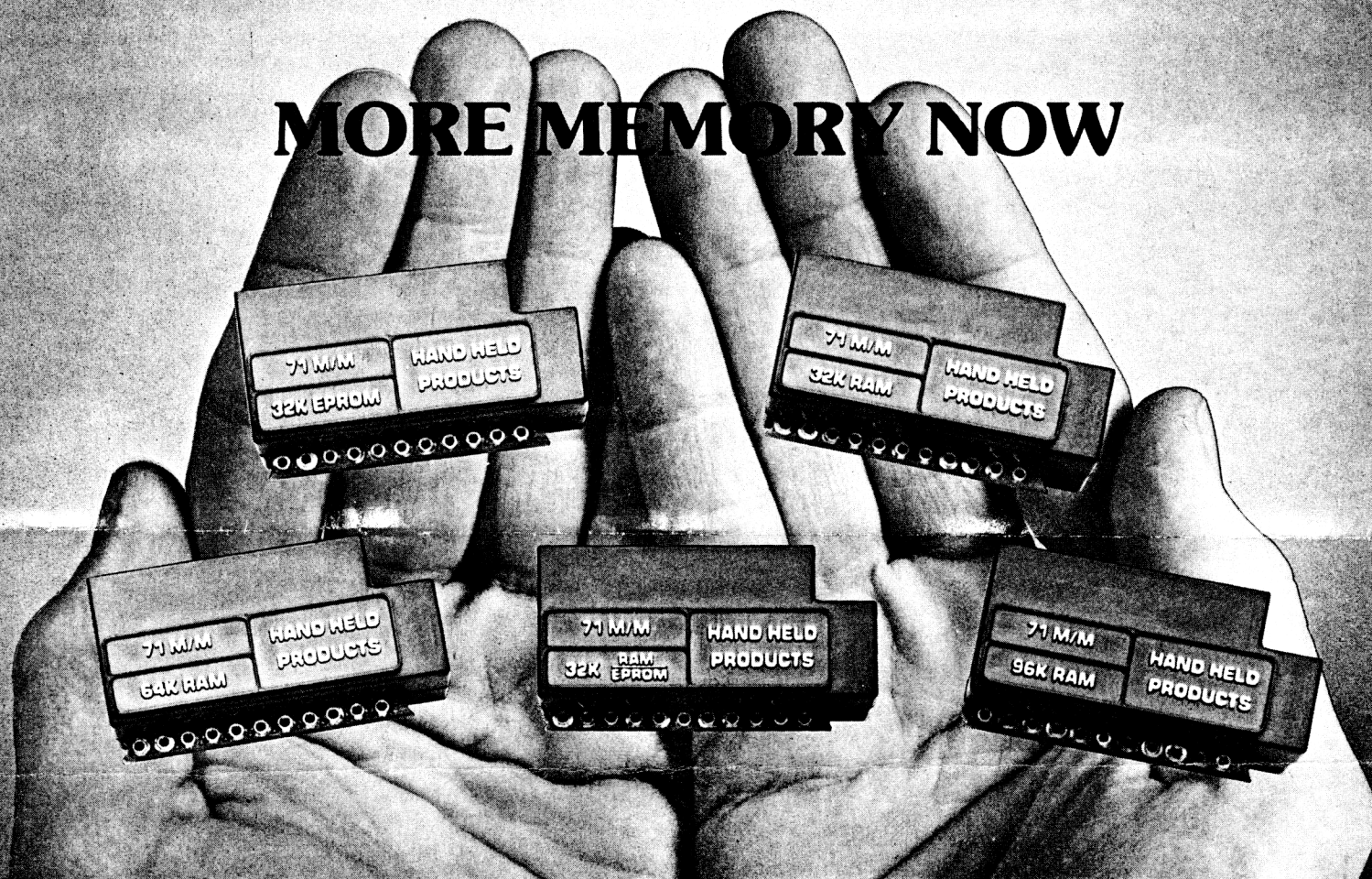


# MORE MEMORY NOW



## NEW FROM HAND HELD PRODUCTS

Upgrade your Hewlett-Packard HP-71 hand held computer instantly! Hand Held Products has responded to the clamor of all HP-71 users who need more memory. The HP-71 is a strong tool for a host of applications but is limited to only 17.5K of Random Access Memory (RAM). With increased memory, the HP-71 is transformed into a powerhouse whose potential is finally realized! In response to the user demand, Hand Held Products is pleased to announce not only one, but five ways to dramatically increase the memory of your HP-71.

All Memory Modules are enclosed within the card reader space of the HP-71, are entirely self-contained, and can be

literally installed in seconds. The 64K RAM and 32K RAM modules have enclosed battery back-up and can be removed from the HP-71 without fear of memory loss. Hand Held

Products also provides other products to support the HP-71 and 71 Memory Modules. A cross assembler which allows you to download assembly language programs into your HP-71 is available as well as ROM development software to enable you to burn your own EPROMS. Hand Held Products

is very proud to add the 71 Memory Modules and support products to its rapidly growing family of state-of-the-art, custom, portable electronics.

HHP-71 M/M 96K	RAM	— \$995.00
HHP-71 M/M 64K	RAM	— \$695.00
HHP-71 M/M 32K	RAM	— \$395.00
HHP-71 M/M 32K	RAM	— \$495.00
HHP-71 M/M 32K	EPROM CARRIER	— \$ 99.00
	EPROM CARRIER	

Available Now! For complete information:

**HAND HELD PRODUCTS, INC.**

P.O. Box 2388, Charlotte, North Carolina 28211

Telephone (704) 541-1380  
Volume Discounts Available

TWX 810-621-0380 PROTECH  
VISA and MasterCard Accepted

Hand Held Products' 71 Memory Modules (M/M's) are a very powerful enhancement for the Hewlett-Packard HP71 computer. The 71 M/M's are available in the following configurations:

- Random Access Memory (RAM) expansion. Hand Held Products provides your choice of 32K, 64K, or 96 Kbyte RAM expansion.
- Erasable Programmable Read-Only Memory (EPROM) expansion. The EPROM carrier versions of the 71 M/M's allow you to address up to 32 Kbytes of software in EPROM.
- RAM/EPROM expansion. The 32K RAM/32K EPROM version of the M/M's provides 32K of RAM as well as up to 32K of EPROM.

As you can see, the addition of Hand Held Products' 71 Memory Modules dramatically increases the memory of your HP71 computer. Installation of any of the 71 M/M's transform the HP71 into a powerhouse and can open up a new world of opportunity for HP71 users.



Display shows available RAM after installing 96K Memory Module.

## Installing the Memory Module

The 71 M/M's are enclosed in the card-reader port of the HP71. The installation is very simple. No tools are necessary:

- 1) Turn off the HP71.
- 2) Turn the HP71 over and remove the cover to the card reader port.
- 3) Remove the plastic insert.
- 4) Install the 71 M/M by aligning the gold pins in the HP71 with the sockets in the 71 M/M. Press on the back of the 71 M/M until it fits snugly in place.
- 5) Turn the HP71 right-side-up and make certain the nameplate of the M/M is flush with the front of the HP71.
- 6) Replace the cover to the card-reader port.

## Using the 71 M/M—RAM

Hand Held Products' 71 Memory Modules offer you the flexibility of using your extended memory in two ways:

- *Main Memory*  
When a 71 RAM M/M is installed, you have instantly added 32K, 64K, or 96 Kbytes of RAM to your HP71. This additional memory becomes a part of Main RAM in your HP71.
- *Independent Memory*  
Your increased memory can also be partitioned or placed in independent RAM. The additional memory resides in port 5 of the HP71. The 32K RAM, 64K RAM, and 96K RAM M/M's can be partitioned in 32K increments and are addressed in the following locations.  
32K . . . . port 5.0  
64K . . . . ports 5.0 and 5.01  
96K . . . . ports 5.0, 5.01, and 5.02

### Note:

Other independent memory configurations in increments of 32K are available. Consult Hand Held Products for further information.

## 71 M/M's. . . Battery Back-Up

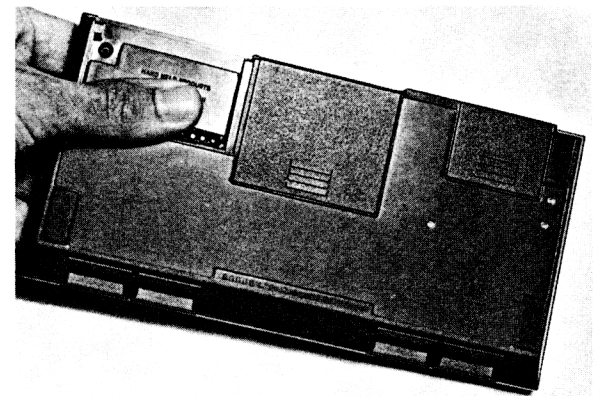
The 32K RAM and 64K RAM M/M's have a self-contained lithium battery. This will allow the 71 M/M to be removed from the HP71 and still retain its memory when used as freeported RAM.

The 71 M/M's battery is in operation only when the module is removed from the HP71 i.e., there is no drain on the M/M's battery while installed in the HP71. When installed in the HP71, all 71 M/M's are powered by the HP71's power source. The snap-on cover which is provided with your 71 M/M is extremely important with regard to the battery life of your 32K RAM and 64K RAM Memory Module. The cover should be placed on the M/M immediately upon the removal of the module from the HP71 and must remain on the module at all times when not installed in the HP71.

- *Battery Life*

Your battery backed-up memory module will retain its memory for up to five (5) years under normal use. Normal usage is considered as leaving the M/M inside the HP71 approximately 80% of the time.

It is a simple task to replace the battery in your M/M. The only material necessary is a 71 M/M Battery Replacement Assembly which comes complete with everything you need and can be installed in minutes.



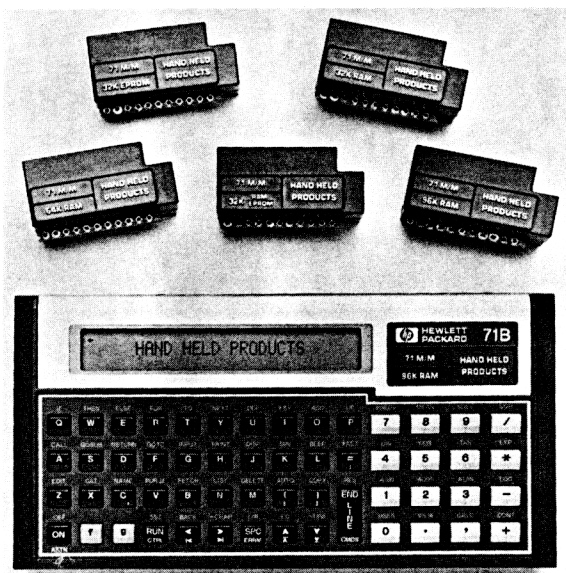
Installing the Hand Held Products Memory Module.

**71 M/M's . . . EPROM Carrier  
Versions**

The 71 M/M's offer two options for adding EPROM to the HP-71: the EPROM carrier by itself or the EPROM carrier with 32K of RAM. The EPROM functions the same in both versions.

You may install up to 32K of EPROM in your 71 M/M EPROM Carrier. The following EPROMs may be used: Intel™ compatible, NMOS or CMOS, 27256, 27128, 2764, 200 nanosecond or faster.

- *Addressing the Memory*  
In the EPROM Carrier version of the 71 M/M, the EPROM is addressed in port 5.0. In the 32K RAM/32K EPROM M/M the EPROM is addressed in port 5.0 and the RAM is in port 5.01.



# Hand Held Products

INTRODUCES

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FOR THE

# HP-71

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