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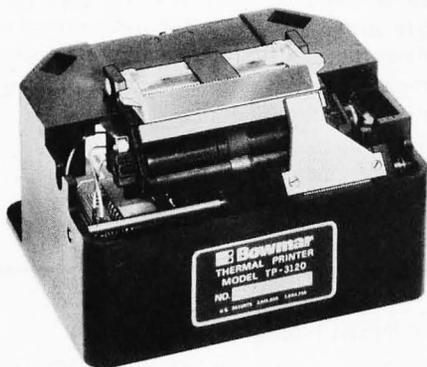
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## What's New?

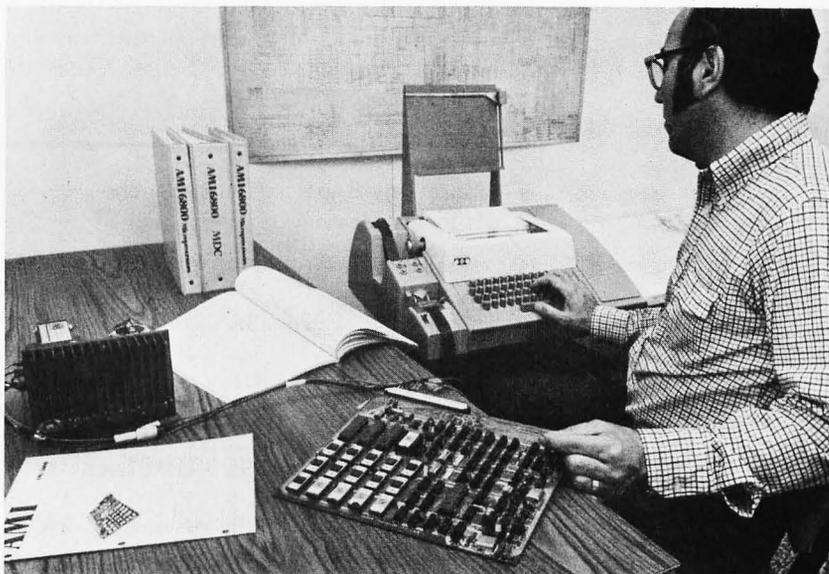
### OEMs and Kit Makers Take Note:

Bowmar Instrument Corporation, 8000 Bluffton Rd, Fort Wayne IN 46809, has introduced a new thermal printer, called the TP-3120, which can be integrated into products for the consumer markets. The printer is said to be highly reliable due to minimization of moving parts and evidence of a mean time between failure in excess of 3 million characters for the thermal print head and an overall operating life of more than 1 million lines of printing.

The TP-3120 operates at a speed of 29.4 characters per second and prints up to 1.07 lines per second. The printer produces alphanumeric outputs, has low power consumption and quiet operation, and thus should



prove attractive in small systems. The design goal was a printer for use in microprocessor based terminals, medical electronics, point of sale cash register devices, test equipment and other instances where hard copy is a desirable feature if the cost is low enough. ■



### A 6800 Evaluation Board – Plus EROM Programmer and Tiny BASIC!

AMI (American Microsystems Inc) has introduced a microprocessor prototyping board for hardware and software evaluation of the 6800 based microcomputer systems family in specific applications.

The AMI 6800 Microprocessor Evaluation Board (EVK300) features a built-in programmer for the S6834 EROM circuit. This feature gives the AMI board an additional capability not usually found in evaluation kits. Using the board, designers can become proficient with the 6800 processor, and system development can take place quickly and painlessly.

The board can also serve as a general purpose computer for low volume systems by the utilization of up to 58 input/output lines and expansion up to 56 K bytes of programmable or read only memory.

The single board computer measures 10.5

inches (26.7 cm) by 12 inches (30.5 cm) and has two 86 pin edge connectors. The board can be used for evaluating incoming microcircuits and for programming EROMs on a limited production basis. Communication with the computer is done through a Teletype current loop interface.

A high level interpretive computer language called AMI 6800 Tiny BASIC is furnished to EVK300 board users residing in the EROM at no extra charge, and prototyping operating system program (PROTO), residing in the ROM, is also supplied with the board.

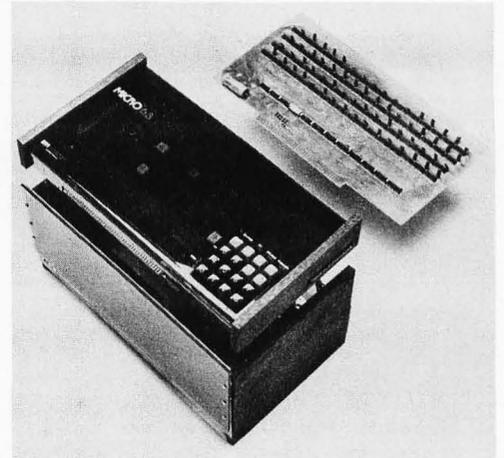
The board is available in three package options: in kit form with the printed circuit board and a minimum of parts (EVK100 - \$295); an expanded kit with 512 byte EROM (EVK200 - \$595) and the expanded kit fully assembled and tested having 2 K bytes EROM with Tiny BASIC (EVK300 - \$950). Contact American Microsystems Inc, 3800 Homestead Rd, Santa Clara CA 95051. ■

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#### More Tiny BASIC - Doctor Dobbs Is Really Moving

Electronic Product Associates Inc, 1157 Vega St, San Diego CA 92110, have announced that Tiny BASIC is now available for the Micro-68 computer development system. This BASIC is a 16 bit integer arithmetic subset of Dartmouth BASIC and includes: LET, IF ... THEN, INPUT, PRINT, GOTO, GOSUB, RETURN, END, REM, CLEAR, LIST, RUN, RND, andUSR. The entire system will fit in only 2 K of

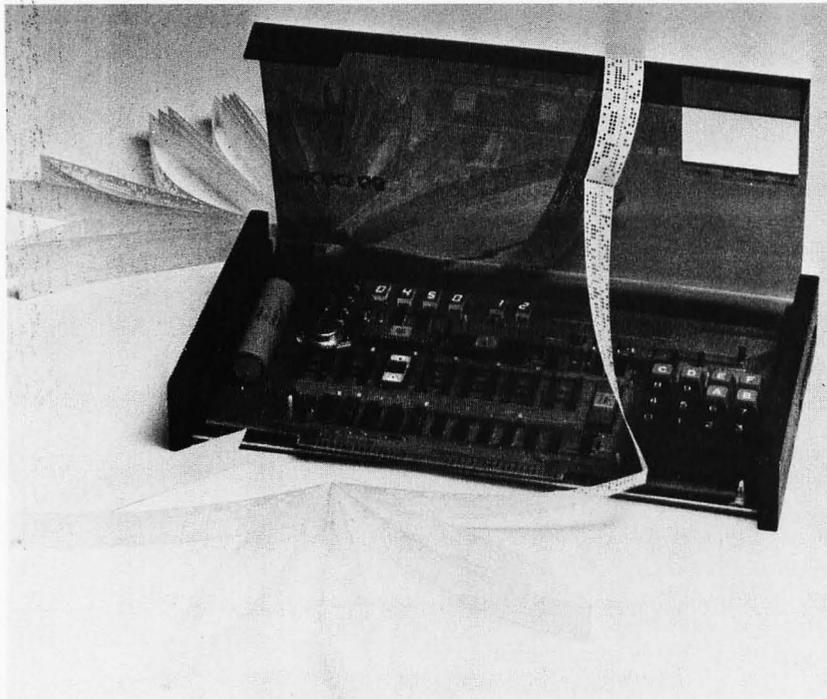
memory and is available for a number of different configurations for input and output. Adding Tiny BASIC for \$10 to the Micro-68 computer provides one of the lowest cost BASIC language systems available today. The Micro-68 is a Motorola/AMI/Hitachi 6800 prototype development system which sells complete with power supply, cabinet, hexadecimal keyboard and 6 digit LED priced at \$430. ■



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#### Get Up and Running Quickly with This Self Contained Package

Electronic Product Associates Inc, 1157 Vega St, San Diego CA 92110, (714)276-8911, has announced a complete microcomputer system for \$1050. Called the Expanded-68, the computer is based on the Motorola 6800 microprocessor chip set. Designed for engineering prototype development use, the Expanded-68 comes with 8 K of memory, power supply, 16 digit keyboard, Teletype interface, hexadecimal LED display, expansion cabinet, application manual and programming manual. It should prove quite usable for the experimenter as well as the industrial designer. Also available for direct interfacing are: dual floppy disk drive, 40 column impact printer, 132 column printer, cassette tape interface, TV interface, general purpose board, and full ASCII keyboard. ■

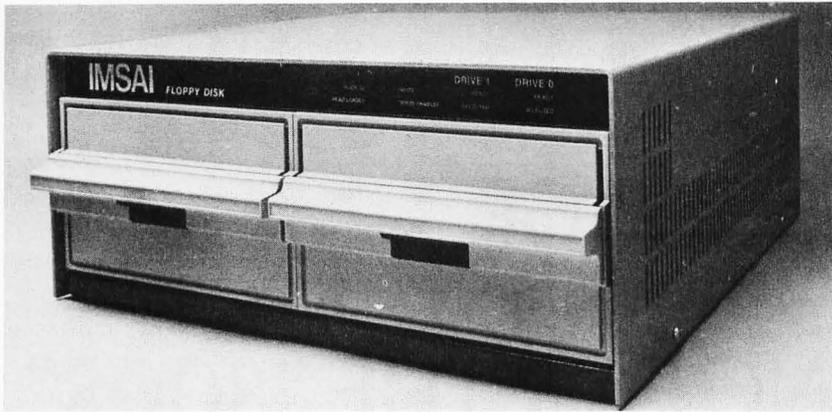


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#### The IMSAI Floppy Disk Subsystem

IMS Associates, 14860 Wicks Blvd, San Leandro CA 94577, recently announced the availability of a floppy disk drive with an intelligent interface and controller. The system is specifically designed for use with the IMSAI 8080 computer.

The floppy disk has a capacity of 243 K



bytes using the IBM 3740 format. The interface and controller contains its own processor and direct access memory which operate independently but under command of the main processor of the IMSAI 8080. This enables the main processor to perform other tasks while a disk operation is in process. Also, the user can change the program format of the disk by reprogramming the interface EROM chips.

Up to four floppy disk drives can be controlled by one interface and controller. Each disk can be write protected under software control.

The disk drive comes in a cabinet with a power supply and the capacity to accommodate a second drive as shown in the photo. A rack mounted version is also available. All interconnection cables are included. The IMSAI floppy disk drive and interface controller are \$1,649 assembled and \$1,449 unassembled. An additional disk drive without a cabinet is \$925. The interface controller alone is \$799 assembled and \$599 unassembled.

Disk operating system software is available on diskette for \$40. Also, 12 K Extended BASIC with disk access capability was announced in July of this year. ■

#### A PROM Resident 8080 Assembler

Microcomputer Technique Inc, 1120 Reston International Office Center Building, Reston VA 22091, has announced a resident assembler which runs in the Intel System Design Kit (SDK) microcomputer. The assembler requires 4 K bytes of memory and is available from stock for \$450, delivered in four preprogrammed PROM chips.

The MTI assembler operates in one, two or three passes (user selectable), produces relocatable or absolute object code, contains a relocatable loader, has rudimentary conditional assembly statements and is designed to work with serial media such as magnetic or paper tape. ■

# IMSAI announces a unique 4K RAM board for just \$139.

Nobody has a 4K RAM board that gives you so much for your money. It's fully compatible with the Altair 8800.

Through the front panel or under software control, you can write protect or unprotect any 1K group of RAM's. Also under software control you can check the status of any 4K RAM board in 1K blocks to determine whether it's protected or not. The board has LED's that clearly show you the memory protect status of each 1K block and which block is active. And there's a circuit provided that will let you prevent the loss of data in the memory if there's a power failure. This low power board has a guaranteed 450 ns cycle time—no wait cycle required. There's nothing like the IMSAI 4K RAM board around.

Dealer inquiries invited.

# IMS

IMS Associates, Inc.

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