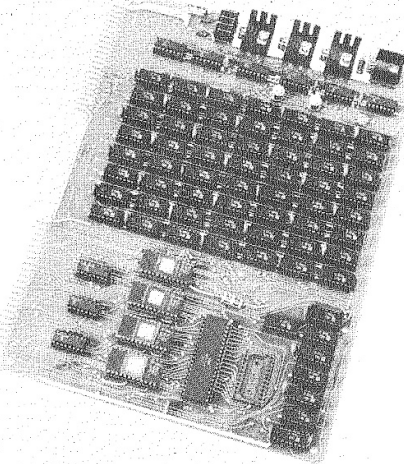




HARDWARE and SOFTWARE for the KIM-1

MEMORY PLUS™



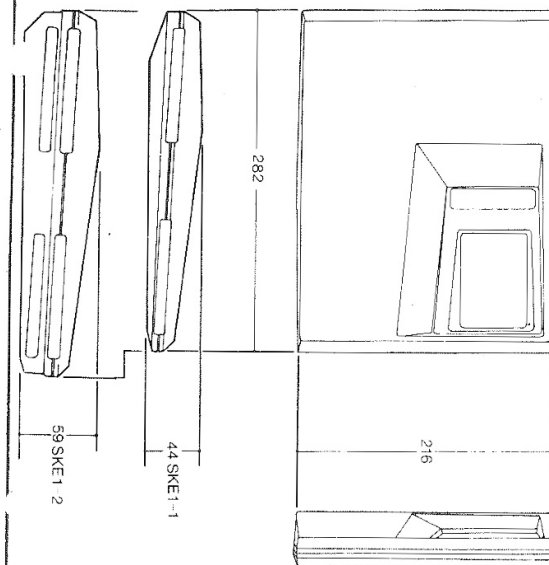
MEMORY PLUS is a KIM-1 shaped and sized board for extending the capabilities of the KIM-1. It contains 8K RAM (low power 2102 static); provision for up to 8K EPROM (Intel type 2716 2K by 8-bit); a Versatile Interface Adapter with two 8-bit I/O ports, two timers, and a serial-to-parallel shift register (MOS Technology 6522); and an on board EPROM Programmer. RAM and ROM are each addressable at any 8K (2K hex) boundary and may both be used simultaneously (this is really a 16K board!).

Other features are: on board regulators for +5V and +25V, EPROM Programming Program and Memory Test Program on cassette tape, all IC chips are socketted, the board is fully assembled and tested. Comes with connectors, mounting hardware, 60 page manual, schematics, etc.

Options:

EPROMs - up to 4 Intel type 2K by 8-bit EPROMs may be used to provide up to 8K EPROM.

Cables - one cable to go between the KIM-1 and MEMORY PLUS expansion connectors, and one cable to connect the MEMORY PLUS application connector to your existing KIM-1 application connector.

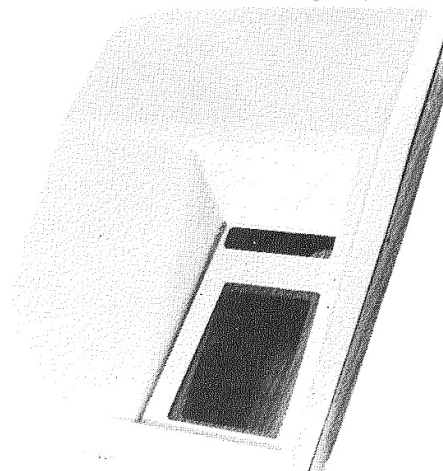


SKE 1-1

A Housing Specifically Designed for the KIM-1 Microcomputer

SKE 1-2

A Modification of the SKE 1-1 which allows for the Mounting of an Additional Circuit Board (e.g. Memory Plus)



HELP

HELP is an integrated software package which permits useful applications to be run on a KIM-1 system using standard audio cassette recorders as computer controlled I/O devices and a terminal for entering and printing data. HELP consists of two major components.

HELP Functions - These are parameter driven program modules written in 6502 assembly language. They are combined via the HELP interpreter. The Functions support high speed cassette tape input/output, terminal input/output with editing, and a variety of test, compare, and branch operations.

HELP Applications - Useful programs may be written entirely as a series of HELP Functions. This technique makes it possible to write memory efficient application programs that are easy to code by hand and easy to modify and customize.

HELP packages run on a basic KIM-1 with no additional memory required. Two cassette units and relays to control them are required, as is some type of KIM-1 supported terminal. Each package includes an Operator's Manual, Source Listings, and a Cassette Tape which contains the programs in a quick loading format.

Other pages in this catalog contain descriptions of the HELP Application that are currently available. Additional Applications may be added in the future, and new Functions and small Applications may be published occasionally in MICRO.

HELP RELAY

The HELP Relay Package consists of the components required to connect a KIM-1 to two cassette tape recorders equipped with Remote On/Off jacks to enable the cassettes to be turned On and Off under program control. This considerably extends the capability of the KIM-1.

The HELP Application Packages (EDITOR, MAILING LIST, and INFORMATION RETRIEVAL) require this type of cassette control, as does the MICRO-ADE Assembler/Disassembler/Editor package. Other programs may use the same equipment for controlling cassettes or other low current devices.

The components included are:

- Reed Relay (3)
- Buffer IC Chip (1)
- Diode (2)
- Resistor (2)
- Capacitor (2)
- Miniature Phono Jack (2)

A circuit diagram and assembly language subroutine are also provided. A PC board is NOT included.

This Relay Package may not be adequate to control cassette tape recorders which draw a large amount of current. It will work with most inexpensive, compact types of units.

EDITOR

The HELP Editor Package allows you to use a KIM-1 for both Text Editing and Source Editing. Using the various facilities of this package, you can produce error-free material, save it on cassette tape for editing and/or printing at a later time, and print material directly from the cassette.

The Text Editor permits any line to be created and modified, saved and retrieved from tape, or to be deleted. Within a line of text, characters may be deleted, the line may be printed for examination, the entire line may be cleared, and so forth.

The Source Editor supports the creation of formatted source listings. Each portion of the source line - PC counter, Object code, ..., Comment - are separately accessible without involving the other fields. This means that you can quickly go to any field you wish to change without disturbing the other fields.

A terminal, two cassette tape units, and relays to control the cassettes are required. No additional memory is required. The package includes an Operator's Manual, complete Source Listings, and a Cassette Tape with all of the programs in a quick loading format.

MAILING LIST

The HELP Mailing List Package lets you use a KIM-1 for creation, review, maintenance, and printing of mailing labels. The package consists of three separate programs:

The Mailing List Editor is used to create and maintain the master mailing list file on cassette tapes. Up to 900 entries may be stored on one side of a 60 minute tape.

The Mailing List Printer is used to print all or a selected subset of the master list in a single line per entry format for easy review.

The Mailing List Label Printer is used to print mailing labels in a three, four, or five lines per entry format. The entire master file or any subset may be printed, and an additional comment line can be added to selected entries.

A terminal, two cassette tape units, and relays to control the cassettes are required. No additional memory is required. The package includes an Operator's Manual, complete Source Listings, and a Cassette Tape with all of the programs in a quick loading format.

INFORMATION RETRIEVAL

If you have a mass of data which you would like to store on cassette tape and retrieve on a selective basis, then the HELP Information Retrieval will be of interest. This package consists of two major programs:

EDITOR - This is used to create and update the data base. It includes inter-line commands which permit the user to Add lines, Delete lines, Modify lines, and Examine lines (records) of data. It has intra-line commands for Deleting characters, Forward spacing over data, Examining fields of a record, and so forth.

RETRIEVE - This is used to selectively retrieve and print records from the total data base. The user specifies multiple selection keys which are used to test each record on the cassette tape. Any record which meets all of the specified tests is printed on the terminal. Any record which does not pass all specified tests is ignored.

The Data Base for the Information Retrieval consists of a set of records on the cassette tape. Each record consists of up to six data fields plus a flags field. Retrieval may be performed on any data field or collection of data fields, as well as up to six independent tests of the separate flags field.

A terminal, two cassette tape units, and relays to control the cassettes are required. No additional memory is required. The package includes an Operator's Manual, complete Source Listings, and a Cassette Tape with all of the programs in a quick loading format.

MICRO-ADE

Assembler

A flexible two pass assembler that can assemble small programs directly in memory or large programs via computer controlled cassette tape units. A simplified mnemonic set is used (see MICRO #1), rather than the awkward MOS Technology syntax. It includes many features usually found only in much larger systems.

Disassembler

Converts from object code into assembler source language. Eliminates the need for hex dumps. Get all of your object code into readable assembler source for further modification and understanding.

Editor

Many editing features, cassette commands, and some useful utilities make source and text generation a snap. It will work with teletype or CRT systems.

The Micro-ADE Package

Micro-ADE is a well documented package which may be used with any 6502 based system. A comprehensive User Manual includes source listings for the I/O routines enabling the user to customize the package for his own equipment. Object comes on a KIM cassette. The package resides in 4K RAM or ROM with additional RAM required for the working area: source code, object code, and symbol tables.

PLEASE

PLEASE is:

- a Digital Clock
- an Adding Machine
- an Intoxication Tester
- a simple Guess-the-Number Game
- a complex Mastermind Number Game
- the challenging Shooting Stars Puzzle
- Moving Messages on the "Goodrich Blimp"
- a Decimal-to-Hex and Hex-to-Decimal Converter
- plus other games and demonstrations for the KIM-1

PLEASE lets you have fun and impress your friends and family while helping you learn how to operate and program this marvelous machine. No additional memory, terminal, or special peripherals are required.

The PLEASE package includes an Operator's Manual which provides all the information for using the many programs; a set of annotated Source Listings for understanding how the programs work; and a Cassette Tape which contains all of the programs for quick loading into the KIM-1.

MICROCHESS

MICROCHESS will play a pretty good game of chess on a simple KIM-1 without a terminal or additional memory. It is a terrific way to gain appreciation for the power of the microcomputer. In addition to playing a reasonable game in most instances, MICROCHESS can provide a useful opponent for practicing checkmates, learning the openings, and sharpening general playing skills. It's also a great way for kids to learn chess and become familiar with computers.

MICROCHESS has been carefully designed to allow the user to expand or modify the basic package and to experiment with his own ideas for improvement of the playing strategy. With the complete source listings, it provides a good introduction to serious programming of the KIM.

The MICROCHESS package includes a Player's Manual, an annotated Source Listing, a Programmer's Manual which explains the operation of the program, and a Cassette Tape which contains the program and five different openings.

PRICES

PLEASE - Games and demonstrations	Hfl.	75,--
MICROCHESS - Chess Playing Program	-	75,--
HELP Editor Package	-	75,--
HELP Mailing List Package	-	75,--
HELP Information Retrieval Package	-	75,--
Micro-ADE - Assembler/Disassembler/Editor	-	125,--
Complete Source Listings	-	100,--
HELP Relay Package	-	75,--
HELP Language Function Manual and Source Listings	-	25,--
MEMORY PLUS - 8K RAM/EPROM/6522 I/O	-	789,--
EPROMs-Intel 2716 2K by 8 bit (or equivalent)	-	150,--
Cables-Connect KIM - 1 to MEMORY PLUS	-	50,--
ENCLOSURE for KIM-1 (blue) SKE1-1	-	90,--
ENCLOSURE PLUS for KIM-1 and MEMORY PLUS (blue) SKE1-1	-	110,--
KIM-1 Microcomputer	-	789,--

Special Packages

KIM-1 + ENCLOSURE	-	869,--
MEMORY PLUS + ENCLOSURE PLUS	-	887,--
SYSTEM PLUS:		
MEMORY PLUS + KIM-1 +ENCLOSURE PLUS + Cables	-	1685,--
MICRO - The 6502 Journal-One year Subscription Air Mail	-	60,--

Prices are including import duties and postage to an address in the Benelux. Prices do not include VAT. Prices and specifications can be changed without prior notice.

Warranty: All hardware is warranted for ninety (90) days and all software and cassettes for thirty (30) days from date of delivery. If any item proves defective during its warranty period, it will be repaired or replaced, provided that it is returned, shipping prepaid, to Famatra.

This warranty does not apply to material that has been damaged by accident or misuse.

No other warranty is expressed or implied.

Famatra is not liable for consequential damages.

Payment: Prepayment (see below), guaranteed cheques or authorization to ship COD (cash on delivery) must accompany all orders. Purchase orders with NET 30 days payment will be accepted from established companies and organizations, if approved by our credit-manager.

Money transfers: should be made to

Postgiro 390.40.91 or
Slavenburg's Bank, Breda
acc. n°. 64.31.21.579

Cheques must be made out to:

Famatra Benelux,
Postbus 721,
Breda NL.

