

116800

EVALUATION KIT II

Develop and Evaluate M6800 Microprocessor Systems with Motorola's New Microprocessor Evaluation Design Kit II



The MEK6800D2 Kit has all the parts necessary to complete the system and get "On The Air", except for the power supply for only \$235.00.

Featuring

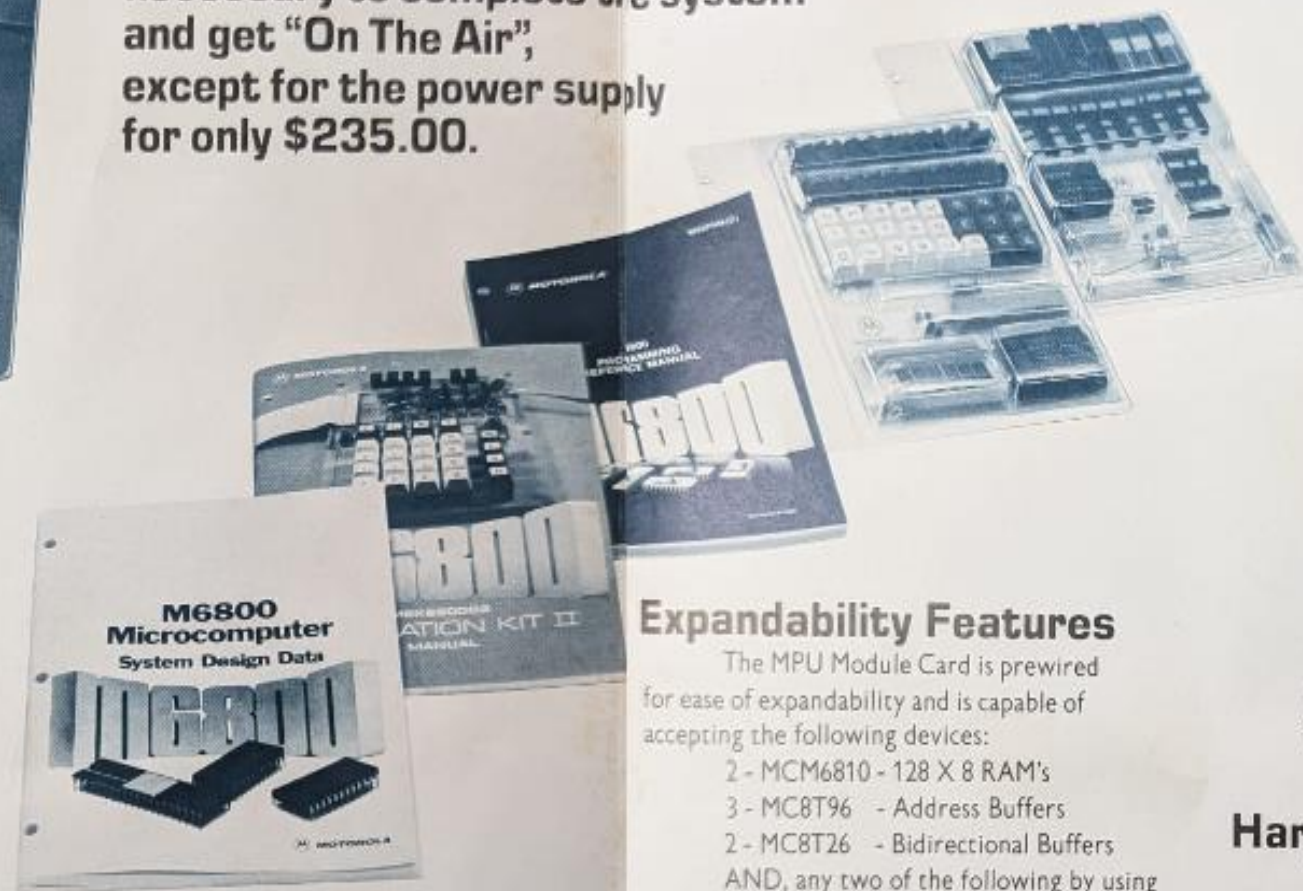
- 24 Key Keyboard
- 7 Segment Display
- Cassette Interface
- EROM Expandable
- RAM Expandable
- Wire Wrap Capability
- Parallel and Serial Interface Capability
- Single 5 Volt Supply Required
- Layout on Boards
- Documentation

Hardware Features

- 16 I/O Lines
- 4 Control Lines

Three I/O devices are provided: one PIA is dedicated to the hexadecimal keyboard and display module; a second PIA is made available exclusively for the user; and an ACIA is also included to interface with an audio cassette tape recorder.

Several different Memory configurations are possible: two MCM6810 - 128 X 8 RAM's included with the kit will accommodate programs of up to 256 bytes in length; additional RAM and ROM expansion is left to the user's discretion,



Firmware Features

- J-Bug Monitor

This monitor allows the user to communicate with and control the M6800 Microcomputer by using the hexadecimal keyboard and display module. The intelligence and diagnostic capability of the J-Bug is provided in one 1K X 8 ROM.

The MEK6800D2 Design Evaluation Kit II will also accept the Motorola Minibug II or III Monitor ROM in place of the J-Bug. Minibug II and III have monitor and diagnostic capabilities similar to J-Bug; however, it is intended for use with RS232 and TTY type terminals.

Expandability Features

The MPU Module Card is prewired for ease of expandability and is capable of accepting the following devices:

- 2 - MCM6810 - 128 X 8 RAM's
 - 3 - MC8T96 - Address Buffers
 - 2 - MC8T26 - Bidirectional Buffers
- AND, any two of the following by using

strapping options:

- MCM68316E - 2K X 8 ROM
- MCM68708 - 1K X 8 EPROM
- MCM68308 - 1K X 8 ROM
- HA7640 - 512 X 8 PROM

EXORciser Compatible

By adding optional buffers in the space provided, the kit may be upgraded to EXORciser compatible status. All EXORciser I/O and most memory modules may also be used with the kit for greater versatility.

Buffering A wire wrap area is provided for any buffering that may be required. Up to twenty 16 pin DIP packages may be accommodated.

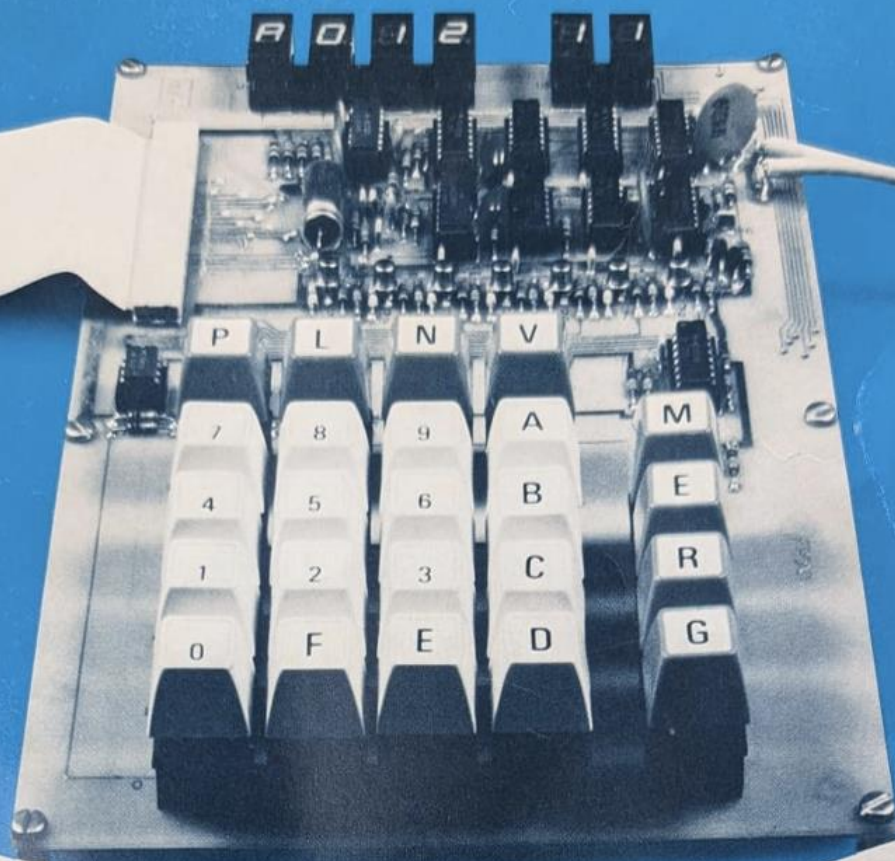
Keyboard Features

The system keyboard uses 24 keys with the following functions:

- 1 - Punch Designated Memory to Audio Cassette
- 2 - Load Cassette to Memory
- 3 - Trace 1 Instruction
- 4 - Set and Clear Up to 5 Breakpoints
- 5 - Examine and Change Memory
- 6 - Display and Change Registers
- 7 - Go to User's Program
- 8 - Proceed from Breakpoint
- 9 - Abort User's Program
- 10 - Calculate Relative Offsets
- 11 - Hexadecimal Number Entry (0 thru F)

Hardware Included with Kit

- 1 - MC6800 Microprocessing Unit
 - 2 - MCM6810 - 128 X 8 Static RAM's
 - 2 - MC6820L Peripheral Interface Adapters (PIA's) (One PIA is for User Interface)
 - 1 - MCM6830L2 Program ROM
 - 1 - MC6850L Asynchronous Communication Interface Adapter (ACIA)
 - 2 - Printed Circuit Boards
 - 1 - MC6871 Clock
 - 1 - Socket for 68708 EROM
 - 1 - 6-Digit Seven Segment Display
 - 1 - 24 Key Keyboard
- Complete kit of resistors, capacitors, sockets, circuits, etc. All the parts necessary to complete the system.



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