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The KIM 1
Microcomputer System

Completely Assembled,
Tested and Documented

**No hassle with kit assembly problems,
hardware debugging**

A product of

commodore
C⋅ ⅢO≣

MOS Technology
A division of
Commodore Business Machines, Inc.
950 Rittenhouse Road
Norristown, Pennsylvania 19401

The KIM 1

6502 — 8 bit MPU with powerful instruction set, 13 addressing modes, multiple interrupts, full 65K byte address range.

Plus 2 **MCS 6530** chips each with 1024 bytes of ROM, 64 bytes of RAM, 15 I/O pins, and an interval timer.

The KIM 1 monitor and operating programs are stored permanently in the 1048 ROM bytes provided.

And included: KIM 1 user manual, 6500 Programming Manual and 6500 Hardware Manual
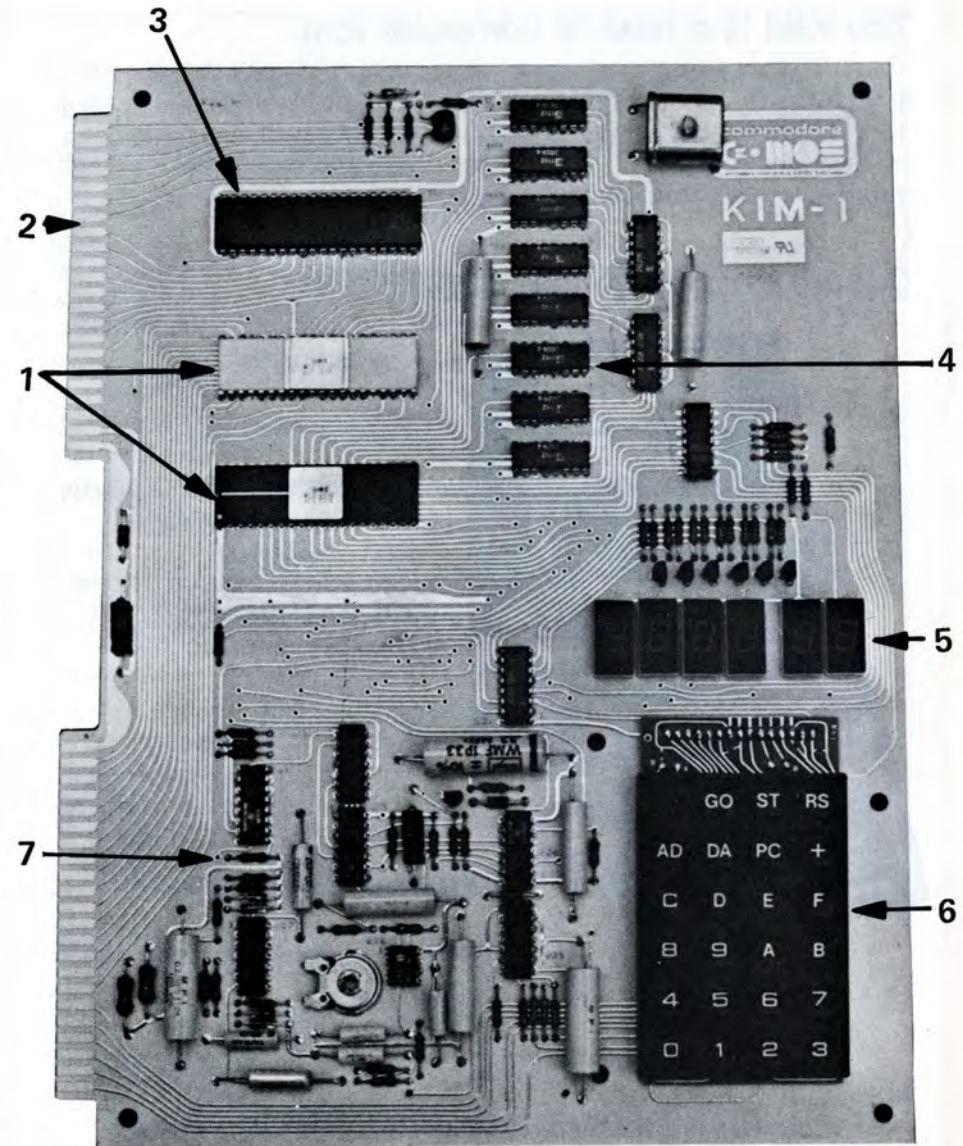
Now you can own a microcomputer system built to the highest commercial and industrial standards . . . for a surprisingly low price. The Commodore/MOS KIM 1.

A completely assembled computer on a single board—not a kit. Take it out of the box, attach a power supply. Start programming it immediately in machine level code, or program it through a TTY using the self-contained interface. Programs can be saved on a standard audio cassette recorder through the built-in interface or on TTY paper tape. The 2K byte ROM monitor handles all I/O programming for the tape cassette, for the TTY interface, for the keypad and for the six digit LED display.
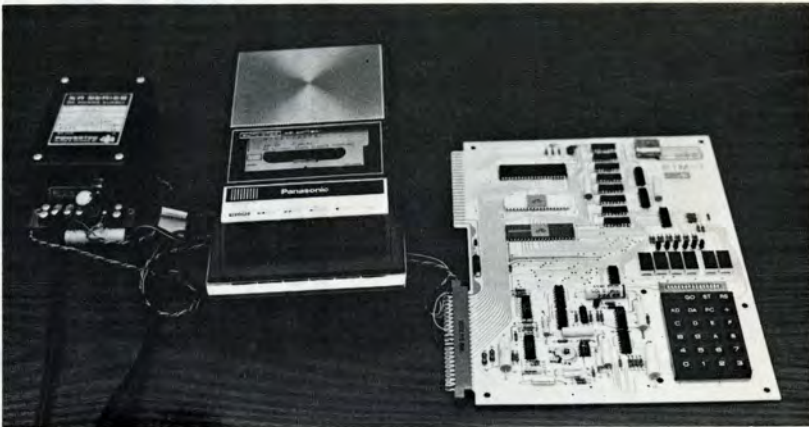
The KIM is a system to build on.

Use the KIM by itself, with its 23 key pad and 6 character LED display, both on-board. Or attach it to peripheral devices: the KIM's TTY interface, tape cassette interface, 15 bi-directional TTL lines.

Add a low-cost audio cassette recorder to your KIM 1 system to provide permanent bulk storage for programs and data. All required interface circuits for recording and playback of audio cassettes are included in the KIM 1 system.

1 6530 Chips, 2048 ROM Bytes, 128 RAM Bytes, 30 I/O Pins, 2 Timers
2 Expansion Option
3 6502 Microprocessor
4 1024 Byte RAM
5 Display
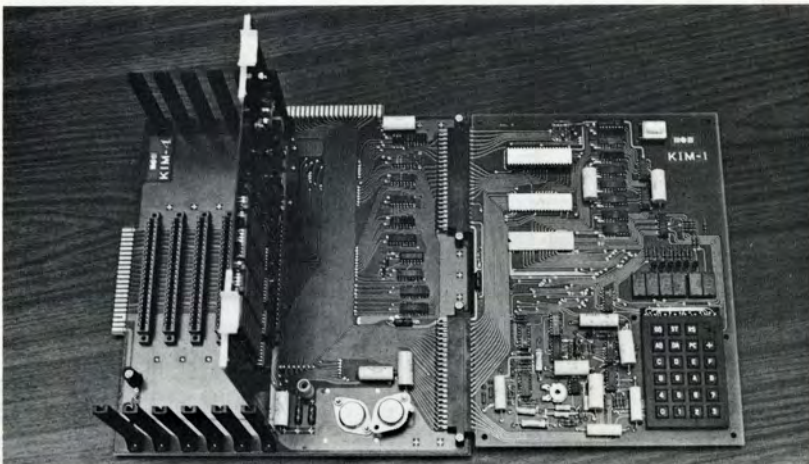6 Keyboard
7 TTY and Casette Interfaces

The KIM 1 connected to an Audio Cassette Recorder and Power Supply

Add a TTY to the KIM 1 system by simply connecting four wires. All interface circuits and firmware are included. Control the system from the TTY keyboard, produce printed output and punch or read paper tapes.

The KIM is expandable.

Include up to **65 bytes of memory** by adding optional **motherboard (KIM 4)** and **memory board (KIM 2 and KIM 3)** for even larger programs. All required address bus, data bus, and control signals are available at one of the KIM 1 connectors. Every I/O port is addressed as if it were a normal memory location. And the KIM expansion modules—assembled and tested—are all ready to plug together instantly for additional capability.

KIM 1 with Motherboard (KIM 4) and — in Vertical Position, 4K Memory Board (KIM 2)

KIM SERIES PRICE AND ORDERING INSTRUCTIONS

The KIM Family

KIM 1	Microcomputer	$245.00

—Not currently available—

KIM 2	4K Static Memory Module	179.00
KIM 3	8K Static Memory Module	289.00
KIM 4	Motherboard	119.00

— Check with Dealer or Commodore/MOS —

KIM Documentation

KIM 1 User Manual*	$ 6.95
Programming Manual*	6.95
Hardware Manual*	6.95
KIM Math Subroutines	14.95
Cross Assembler	4.95
Terminal Interface Monitor	4.95
KIM Assembler Manual	4.95
KIM Text Editor	4.95

*Included with individual KIM 1 purchase, at no charge.

The KIM is a flexible computer tool.

You can store your programs in the 1K byte RAM and debug a program by simply using the single step feature of the keypad. The 15 I/O lines control your custom application circuits. Each pin can be used for input or output. Generate fixed or variable time delays under program control with the two built-in interval timers.

Superb documentation is available:

The 138 page KIM 1 User Manual, the Hardware Manual and the Programming Manual are all included with your KIM 1. Additional documentation is available at a modest price. (See KIM series prices and ordering instructions.)

The KIM has a growing assortment of good software programs. Utility, educational and game programs are widely available through national user groups and independent sources.

New—now available for the first time—are an Editor/Assembler (KIM ROM 1) TINY BASIC, a chess program using only the 1K RAM, other computer games and utility programs.

The KIM is reliable.

A product originally developed by MOS Technology (now merged with Commodore), it uses the famous MOS 6502 microprocessor, one of the most tried and tested in the industry.

Power supply—not included: Plus 5V at 1.2A, plus 12V at 0.1A.

KIM Sales: MOS Technology
A division of Commodore Business Machines, Inc.
950 Rittenhouse Road, Norristown, PA 19401

Order KIM devices and documentation from your authorized dealer or directly from the factory. Include check or money order payable to Commodore Business Machines. Add $4.50 for Freight, Insurance and Handling for each hardware item; $2.50 for each KIM case, $1.50 for each KIM document (plus applicable sales tax in Pennsylvania.)

BankAmericard, Master Charge, American Express credit cards are acceptable. Please indicate which charge card is to be used, your card number and expiration date. Make sure to sign your request.

Please send me the following KIM products:

Model/Description	Quantity	Price Each	Total
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Sales Tax (Pennsylvania) _____

☐ I enclose my check in the amount of _____

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☐ Charge to the following credit card:

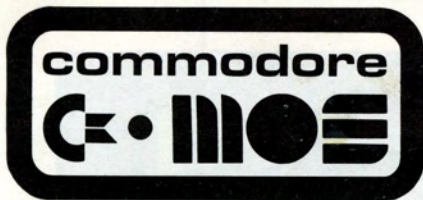☐ Visa (BankAmericard)   ☐ Master Charge   ☐ American Express

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