THE COMPLETE MICROCOMPUTER SYSTEM

Thank you for your interest in the IMSAI 8080. Attached is a packet of information describing the superior features and functions of the IMSAI 8080 System.

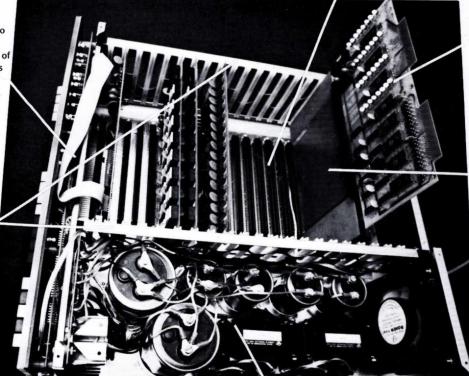
Some of the highlights for you to consider in making your decision to buy the IMSAI 8080 are:

- IMSAI's dedication to serving its customers by offering the highest quality commercial grade microcomputer on the market today.
- . The IMSAI 8080 is a powerful system using current semiconductor technology, modularly expandable up to 64K bytes of memory with the versatility of supporting a wide range of peripherals.
- An exclusive shared memory facility from the company that pioneered shared memory microprocessing. Shared memory facilities allow multiple microprocessors in the same cabinet to share the same memory, and run the same or different programs in parallel with each other. This feature allows a user to increment the processing capacity of an IMSAI 8080 easily and economically.
- . A lower cost model of the IMSAI 8080 is offered for OEM's or for dedicated application use where no front panel is required.
- A complete and professional documentation package accompanies each system including a Users Manual (200 pages), Intel Data Book (157 pages), and Introduction to Microcomputers (460 pages). The comprehensive Users Manual makes our system easy to assemble and simple to use.
- . In addition to our 90 day warranty, we offer factory repair service and continuing technical consultation.
- . Initial software provided with the IMSAI 8080 includes an Assembler, Monitor, Text Editor and Loader in paper tape with listings.
- . Future software includes Basic (4K, 8K, 12K), FORTRAN IV, DOS and PLM, and will be provided to our customers for a nominal handling charge. Choice of media for distribution will be offered with a charge for the media and distribution only.

In summary, IMSAI (developer of the HYPERCUBE and IMSAI 108 Intelligent Disk System) is offering a superior microcomputer fully supported by our documentation, software and, most importantly, our willingness to serve and support our customers in the successful use of the IMSAI 8080.

The IMSAI 8080 can be configured with optional Mother Board to provide a full 22 slots. (shown)

Front panel plugs into Mother Board, thus eliminating the work of soldering all the wires from the front panel to the Mother Board.



Special PIO Board configured with LEDs to monitor each bit of each of the 4 ports.

Extender Board available

Sturdy Card Cage



The IMSAI 8080 is designed using the full Intel family of large scale integration chips, thus providing high reliability and greater flexability.

Front panel hosts a photographic legend to produce a clear, concise, easy-to-read format that can be configured for either hexadecimal or octal. (It won't wear off!)

8 additional program controlled LEDs.



Commercial grade

Easy-to-use commercial grade paddle switches-very crisp and solid.

Front panel unplugs, so unit can be used in a turn key system.

COMING SOON: Free BASIC and extended BASIC for registered IMSAI 8080 owners, followed shortly by Fortran IV and PLM.
TERMS: Check or money order, Bankamericard, Master Charge, 25% deposit on COD orders. On all orders under \$1,000, add 5% for handling. On orders over \$10,000 subtract 5%. California residents add 6% sales tax.

SEND FOR FREE CATALOG OF IMSAI MICROCOMPUTER PRODUCTS

DEALER INQUIRIES INVITED

SPECIAL NOTICE TO ALTAIR 8800 OWNERS:

If you would like to step-up to the superior quality of an IMSAI 8080, you will be pleased to know that your ALTAIR 8800 boards are "plug-in" usable—without modification—in the IMSAI 8080 cabinet. Furthermore, by acquiring IMSAI's unique Memory Sharing Facility, your ALTAIR MPU board and IMSAI MPU board can co-exist in the same cabinet, operate in parallel with each other, and share all memory in common. This is the technology that laid the foundation for IMSAI's powerful HYPERCUBE Computer and Intelligent Disk systems (recently featured in Computerworld, Datamation and Electronics magazines.)

IMS ASSOCIATES, INC., 1922 REPUBLIC AVENUE, SAN LEANDRO, CA 94577

IMS Associates, Inc.

CATALOG

[MSA] 8080 SYSTEM

January 1976



THE COMPLETE MICROPROCESSOR SYSTEM

- o POWERFUL
- o MODULAR
- o VERSATILE
- o LOW COST
- O EASY TO USE

IAME & NUMBER SL	OT REQUIRE	MENT DESCRIPTION
I-8080 Microcomputer		The IMSAI 8080 was designed around the Intel 8080A and will serve either as a small general purpos computing machine, or a dedicated processor. The capabilites of the 8080A and other LSI chips incorporated, result in a truly powerful system. The basic IMSAI 8080 system comes with an MPI board (MPU-A), front panel control board (CP-A), a power supply (PS-20), expander board (EXP-6 with space for 6 card slots, two 100 pin edge connectors and 4 card edge guides (2 EXPM-1), and cabinet with room for up to 22 card slots (see EXP-22 below). The front panel uses LED's and photographic masks and labels; switches are provided with wide paddle handles for easy error-free operation
I-8080 RM		Rack Mount Version of I-8080 above, with special mounting hardware. Unit is configured with special dust cover designed to control air flow cooling (in lieu of the standard top cover).
I-8080 1K		Same as I-8080 above, but with 1K of RAM on a 4K board (RAM 4-1).
I-8080 RM-1K		Same as I-8080 RM above, but with 1K of RAM on a 4 K board. (RAM 4-1)
I-8080 OEM		This is a special unit configured for the OEM customer. It comes with everything noted in I-808 above, less the front panel. Since the IMSAI 8080 can run without a front panel board, and sinc many "dedicated" applications do not require the availability of a front panel, OEM customers may reduce their equipment costs substantially by ordering this special version.
I-8080 OEM RM		Same as I-8080 OEM but with Rack Mount. Unit is configured with a special dust cover designed to control air flow cooling (in lieu of the standard top cover).
MPU-A Microprocessor Board	1	The microprocessor card uses INTEL's 8080A processor chip and includes clock, tri-state bus drivers control signal timing. This is a complete processor board which is the basis of the IMSAI 8080 system. The I/O signal definitions and pin numbers are the same as Altair's bus so that boards from the IMSAI 8080 system and the Altair 8800 system are fully interchangeable. Multiple MPU-A boards can shar the same memory, and operate the same or different programs in parallel. (See Shared Memor Facility.)*
RAM 4-4 4K Static Memory Board		This board contains 4K of 450 nsec static RAM memory on a 4K board. Switchable write protect o each 1K block prevents all writes into that block for debugging purposes.*
RAM 4-1 1K Static Memory Board	1	This board contains 1K of 450 nsec static RAM memory on a 4K board. Up to three MM11-1 kits cabe installed to make the total board capacity 4K bytes.*
PROM 4-4 (4K PROM Board)		Eraseable Programmable Read Only Memory Board using the popular 1702A EPROM. Comes wit 4K of fast (1 microsecond) 1702A's (16 chips).*
PROM 4-2 (2K PROM Board)	1	Same as above, but with 2K 1702A EPROM. This board has a capacity of 4K (16 1702A chips
MM702-5 (512 word EPROM Memory Module)		Expansion kit for the PROM-4 board; includes 512 words of memory on fast (1 microsecond) 1702, chips. Interface requirement - Space on PROM-4 board.
CP-A Control Panel	1	This control panel, while designed as the IMSAI 8080's front panel, is a complete self-contained unilit can be plugged into any slot to control the processor. This permits debugging of a system configure as a dedicated controller, with our PIO board or other special display board at the front panel. Afte debugging, the control panel can be removed from the system. Large paddle handle address/data an control switches along with photographically produced labels and LED masks make this an attractive and easy to use panel.
EXT Extender Board		Enough labeling is supplied on this extender board to locate any pin number quickly. A high qualit gold plated connector and gold plated contact fingers insure high reliability.
EXP-4 Expander Board		Expander boards to fit the IMSAI cabinet. (No connectors included). Adds 4 slots.
EXP-22 Expander Board		This is a special expander (Mother) board, designed to provide the maximum number of card slots 22 in all. It replaces all other expander boards in the cabinet. (Note: if this board is ordered with the original computer, a special discounted price is offered. Please see Price List enclosed.)
EXPM Expansion Module		Contains 1 gold plated 100 pin edge connector and 2 card edge guides. This fills 1 slot on EXP boards
PIO 4-4 4 Port Parallel I/O Board	1	This board has four 8 bit input ports, and four 8 bit output ports, all with handshake flags for conventional parallel interface. Both input and output has its own latch for buffering, and the harmshake flags drive interrupts. The PIO 4-4 board hosts a series of LED's, (one LED to display each of output port.) Using these program controlled LED's, this board can be used to debug softward programs, as well as for diagnostic work on the general system. This board can be used in a turnke system as a special front panel (can replace standard front panel control board in certain applications See PIO cable below.*

AME & NUMBER	SLOT REQUIREMENT	DESCRIPTION
PIO 4-1 1 Port Parallel I/O Board		Same as above, but with 1 port in and 1 port out. Can be upgraded to 2, 3, or full 4 ports via the use of PIOM-1 below. (See PIO Cable listed below).*
PIOM-1 Parallel I/O Module		The parallel I/O module contains components necessary to add 1 input and 1 output port to the PIO-4 poard. A total of 4 input and 4 output ports will fit on a board.
PIO Cable		Plugs onto the PIO board and goes back to the rear of the chassis with two standard 25 pin type D ubminiature connectors.
SIO 2-2 Dual Channel Serial I/O Board	ir tr P d d R co ar ra	This board has everything required for two asynchronous or synchronous half or full duplex serial interfaces. It is based on the INTEL 8251 Programmable USART chip, with buffers for receive and ransmit, and extensive program control of options. The board will interrupt the MPU (through the PIC-8 board) or it can be operated without interrupts. RS-232 level drivers/receivers are provided for data and control lines so no additional circuitry is needed. They are fully independent, can run at different baud rates, etc. Control line jumpers between two channels permit board to "break into" and RS 232 line, intercepting and processing only the data. Jumper options permit operation as either the computer or terminal end of an RS 232 line. Current loop drivers/receivers are provided for operation at either end of a serial current loop interface. TTL level drivers/receivers are provided. Standard baud ates are jumper selectable, special or higher rates available with SIOC. Both channels handle from 75 to 9600 baud asynchronous or 56,000 baud synchronous.*
SIO 2-1 Single Channel Serial I/O Board		Same as SIO 2-2 but with 1 channel of I/O. This board can be expanded to 2 channels by the addition of SIOM-1 (see SIO Cable listed below).*
SIOM-1 Serial I/O Module	E	Expansion module to upgrade a SIO 2-1 board to a SIO 2-2 board. Includes everything necessary.
SIO Cable		Plugs onto SIO board and runs to rear of cabinet with standard 25 pin type D subminiature connectors where peripherals may be plugged into it.
Sal I/O Clock		Expansion "piggy back" board permitting jumper selection of any baud rate up to 56,000. Works with SIO 2-1 or SIO 2-2. Interface requirement - SIO board.
PIC-8 Priority Interrupt/real time Clock Boar	rd II cl m o	Handles interrupts at 8 priority levels. Program controls current permissible priority of interrupts using NTEL 8214; lower priority interrupts are held until permissible or I/O device lowers request. Also has clock interrupt circuit, giving program selectable interrupts at .1, .2, 1, 2, 10, 20, 100, 200, and 1000 millisecond intervals. Single bit output port provided with transistor driver and space for a 3" speaker; or may be used to control custom circuit in 5 spare IC socket locations provided with power and decoupling.
PS-20 Power Supply		Up to 20 amperes at +8 volts and 3 amps each at +16 and -16 volts (unregulated). 115 or 110 volt GOHz input.
PSM Power Supply Module		A special module which can be added to PS-20 above to increase the 8 volt output to a maximum of 80 amps.
FM (Cooling Fan)		Keeps cabinets with many installed boards cooler.

Shared Memory Facility

MABP-3	2-3	These three boards are used to configure shared memory modules. A shared memory module consists
Memory Access	Memory	of standard memory boards in any combination up to 64K, one MAPT-6 board, and one or two
Port Board		MABP-3 boards. It must go on a separate section of expander board. Each MABP-3 board permits up
		to 3 MPU's to access the shared memory; each of these is connected by a flat cable from the MABP-3
MAPT-6		board to a BB board plugged into a slot in the MPU's expander boards. If one MPU is connected to
Memory Access Port		more than one shared memory module, only one BB board is needed at that MPU. Each MPU uses the
Timing Board		shared memory module as though it were its own local memory; if the shared memory is busy, an
		MPU is held not ready until the memory is free. A selectable portion of the shared memory has a
		special interlock to insure successive cycles to an increment memory instruction; permitting easy
Bus Board)		software flag interlocks for multiple user entries in the same stack.
- [1] - [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]		

NAME & NUMBER	SLOT REQUIREMENT	DESCRIPTION
FIF Floppy Disk Drive Interface		This pair of boards uses an on board 8080A to create an intelligent disk interface, which can con up to 4 drives. Its intelligence allows the microprocessor board (MPU-A) of the basic computer more time to perform other functions. DMA (Direct Memory Access) is used to communicate with main memory. The Driving Program (Standard IBM Format) is on 8708 EPROMs. Using "Read All" command, the user can read all bits (clock and data). Hard sectoring and other formating can be used by changing EPROM Programming. Interface has 512 Bytes of RAM used as data buffer. 1FIF cable-5 (listed below) is provided with Interface Board.
FDC2-1 Floppy Disk Drive		One floppy disk drive in a dual drive cabinet with necessary power supply. This is a high quality unit with cast frame and positive air pressure dust control.
FDC4-1		Same as above, but with 1 disk drive and power supply in a 4 drive cabinet.
FDC		Floppy disk drive and power supply to fill FDC2-1 or to expand FDC4-1. This unit comes with Flat cable (FIF Cable-1 listed below) used to interconnect floppy drives within cabinet.
FIF Cable-5		Flat cable needed to connect Interface (FIF) to Floppy Disk Drive Cabinet.
FIF Cable-1		Flat cable for interconnection of Floppy Drives within cabinet.
AP-40 Alphanumeric Printer		This is a very sturdy 40 characters per line printer. It uses standard paper and a 2 color ribbon. It is an impact printer, producing dot matrix characters. It consists of the basic print mechanism only (power supply and interface not provided.)
GP-88 General Purpose Prototype Board		This is a general purpose prototype board providing pads for thirty-one 16 pin chips, and room for two 40 pin chips or three 24 pin chips. It is supplied with an on board regulator and tantalum capacitors.
UCRI-1 Universal Casette Recorder Interface		This board provides all necessary circuits and control I/O ports for recording or reading digital drafter from any audio tape or cassette recorder. The UCRI-1 uses the new "Byte" Standard, and can also the Hobbist Interchange Tape (HIT) Standard. No other hardware is needed.
IMSAI-30A Character Printer		Diablo/Hytype printer ("daisy wheel" type character printer) including cable to standard PIO-4 board. Runs 30 characters/second - has plot mode - many 10 and 12 char./in fonts available - 1 or 2 color, cloth or carbon ribbon - 132 character platen. Very high quality solid character printing is the equal of any office typewriter; accuracy is sufficient for back spacing and retyping lines without degrading appearance.
IMSAI-300A Line Printer		300 line per minute chain printer. High quality, very solid construction by a major U. S. firm.
LIF Line Printer Interface	2	Interface card to drive IMSAI - 300A contains everything necessary.
IMSAI - 108 50 Megabyte disk System		50 Million byte disk storage system with multiple microprocessor controller and advance data storage and retrieval firmware. This "Intelligent Disk" is extremely easy to use, all indexing, physical and logical data management is provided by the multiprocessor system's firmware. Interface to IMSAI 8080 system provided free; very easy interface to any other system. Includes all necessary cabinets and power supplies.
Disk 50 50 Megabyte Disk and Interface		50 Megabyte disk and interface. Everything that is needed to attach disk to Altair 8800 or IMSAI 8080.
*Standard computers come with 10	0 pin edge connectors and	d card edge guides for each board included in basic system. Additional boards ordered require 1 EXPM.

IMS Associates Incorporated, hereinafter referred to as IMSAI, in recognition of its responsibility to provide quality products, components, and workmanship, warrants its products as follows: All components sold by IMSAI are purchased through normal factory distribution and any part which fails because of defects in workmanship or material will be replaced at no charge for a period of 3 months following the date of purchase. The defective part must be returned post paid to IMSAI within the warranty period. Any malfunctioning module, purchased as a kit and returned to IMSAI within the warranty period, which in the judgement of IMSAI has been assembled with care and not subjected to electrical or mechanical abuse, will be restored to proper operating condition and returned, regardless of cause of malfunction, with a minimal charge to cover postage and handling. Any modules purchased as a kit and returned to IMSAI which in the judgement of IMSAI are not covered by the above conditions will be repaired and returned at a cost commensurate with the work required. In no case will this charge exce \$20.00 without prior notification and approval of the owner. Any modules, purchased as assembled units are guaranteed to meet specifications in effect at the tinof mountain the proof of at least 3 months following purchase. These modules are additionally guaranteed against defects in materials or workmanship for the same 3 month period. All warranted factory assembled units returned to IMSAI post paid will be repaired and returned without charge.

This warranty is made in lieu of all other warranties expressed or implied and is limited in any case to the repair or replacement of the module involved. (Specifications subject to change without notice.)

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I-8080RM					CRYSIS	5 M (M (450 Oct 146) 1 0 Oct 1	PS-20)	\$ 499	\$ 931
I-8080-1K		40+05	E 0. 7			MMUJOSOCT MEJODE			\$ 950
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RAM 4-1		52295		I-8080 OEM RM	IMSAI 8080 Less Fr	ont Panel with Rack Mount	CRT-2480	\$ 448	\$ 768
RAM 4-4				MPU-A	MICROPROCESSOR	R BOARD		\$ 181	\$ 350
MM11-1			-	RAM 4-1	1K STATIC MEMOR	RY BOARD	MISCELLA	\$ 69	\$ 139
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BUS BOARD

QTY	UNIT	EXTENDED PRICE	ITEM NO.	DESCRIPTION	KIT	ASSEME	
			PERIPHERALS	AND CONTROLLERS			
			FIF	FLOPPY DISK INTERFACE BOARDS	299	\$ 5	99
			FDC 2-1	FLOPPY DISK DRIVE, PS, 2-Drive Cabinet		\$10	50
			FDC 4-1	FLOPPY DISK DRIVE, PS, 4-Drive Cabinet		\$12	25
			FDC	FLOPPY DISK DRIVE AND POWER SUPPLY ONLY		\$ 9	25
GB.	ASSEMBL	DN.	AP-40	ALPHANUMERIC PRINTER		\$ 2	69
-	3.7171	PRRE	IMSAI-30A	30 CPS HY-TYPE CHARACTER PRINTER	84	\$26	95
			30A-TF	IMSAI 30A TRACTOR FEED OPTION		\$ 3	25
			IMSAI-300A	300 LPM 80 COLUMN PRINTER		\$24	95
			IMSAI-300B	300 LPM 120 COLUMN PRINTER		\$34	95
	028 8	8-2018 5:8	LIF	LINE PRINTER INTERFACE \$	299	\$ 4	75
	686 8	884 à (DISK-50	50 MEGABYTE DISK AND INTERFACE		\$125	00
	\$ 1022	20 \$ 928	IMSAI 108	50 MEGABYTE INTELLIGENT DISK SYSTEM	7800	\$295	00
			UCRI-1	UNIVERSAL CASETTE RECORDER INTERFACE\$	49	\$	
	\$ 749	\$ 429	CRT-1280	12 x 80 CRT TERMINAL WITH KEYBOARD\$		\$15	95
	555 A		CRT-2480	24 x 80 CRT TERMINAL WITH KEYBOARD		\$23	
			MISCELLANEO	US			
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