Now you can “see” inside your 8080 with the Ramtek MM 80

Develop and debug 8080/8080A hardware and software—using the real engineering prototype.
Fast and convenient software—
with ROM resident assembler and editor.
Service and debug 8080 systems in the field—
with a sixteen pound package you can carry in one hand.
Easy program modification during development—
with the PROM/ROM emulator or the PROM programmer.
Get “inside” your 8080 breadboards and know where you are every step of the way—
without building special front panels.

RAMTEK’s new MM 80 In Circuit Emulator plugs directly into a 8080 microprocessor socket with its own 8080, giving you complete system access through a full complement of console commands, front panel controls, probe points and displays. With the MM 80, you actually “see” what’s going on inside the system you’re working on.

With a basic RAMTEK MM 80, you can get into a breadboard as soon as its clocks will run. And the MM 80’s ability to repeatedly generate memory and I/O reference signals lets you read and write memory, perform I/O, and debug hardware—without a program executing in user memory, and even with no memory at all.

And that’s just the beginning. RAMTEK’s new MM 80 gives software designers all the features of simulation, with none of the limitation of fake I/O.

The programmer can step, trace and breakpoint the software in the real system, and display and alter the 8080 registers, memory and I/O ports...all without special programs in the user system or special user hardware. In fact, the user programs can all be in ROM and the MM 80 will still let you see inside.

Real-time debugging is a cinch. The MM 80 holds the addresses of your last 255 instructions on tap for you, and real-time halts can occur on both memory and I/O references.

For those really heavy software efforts, the MM 80 options include a ROM resident one pass assembler, so you never have to load the assembler—and the source is only loaded once. The editor is ROM resident, so it never needs loading. And the PROM emulator and PROM programmer mean that error correction is a breeze.

The MM 80 provides a complete control and test center for any system under test. Five scope probe points let you trigger on M1, sync, φ1 and φ2 signals, and specific address references. RAM diagnostic programs and ROM checksum computation is provided. And the LED display provides complete processor status information, so problems can be detected the moment they arise.

For the complete inside story on RAMTEK’s new MM 80, call or write

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The RAMTEK MM 80 is available now from Texas Instruments
Supply.

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