

MICROPROCESSOR TRAINER

The MPT8080K-1 is ideal for newcomers to this exciting technology. The Limrose MPT8080K-1 Microprocessor trainer uses the same basic architecture as used by all modern Intel-based PCs and microprocessors. The Microtutor Instruction Set is "upwards compatible" with Intel486 and Pentium microprocessors.

- 43 LEDs, 21 Toggles for Input/Outputs
- 20-key Keyboard for Program or Data
- 8-bit Interrupt Instruction Port
- TTL-compatible External Connections for interfacing circuits.
- Single Cycle/Single Instruction Mode
- Optional Basic/Assembler available
- Intel CPUs use same basic architecture
- Expandable with Experimenter Board

If you are already an expert in microprocessors, you can cope with almost anything. However, **if you are a beginner and don't yet fully understand how they really work, 8-bit microprocessors are your best bet. 16-bit, or higher, microprocessors are too complex for beginners to grapple with.**

The unit comes housed in a strong metal case. The front panel has more than 40 LEDs and numerous switches to show important signals – including the 16-bit address bus, 8-bit data bus, memory output and CPU Status Signals. **Watch "machine cycles" as your instructions are executed. See the Stack being filled and emptied when calling subroutines, and Push/Pop or Interrupts are used.** Connect to external equipment using the built-in I/O Ports and drive motors, buzzers and other output devices with little or no additional hardware.

"I can't tell you how pleased I am with the Microtutor" - ex-Director, Racal Electronics.

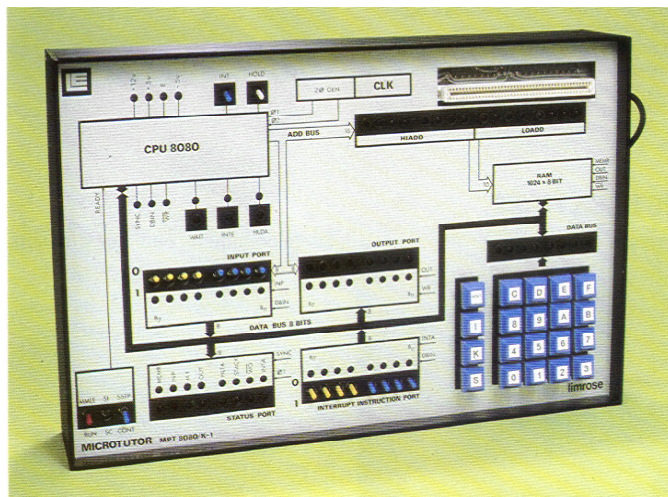
"... a superior teaching aid for microprocessors has yet to be made available. Excellent." – Post Office College of Engineering (UK).

An introductory microprocessor course can be run with the Microtutor MPT8080K-1 alone, without any add-on accessories.

ORDERING INFORMATION	Part No
Microtutor (as pictured on top right)	MPT08080K-1
Microtutor Extension Patchboard	0026P51
VDU Interface, & RAM Card	0084
BASIC Language ROM (see note) *	0080BAS
ASSEMBLER ROM (see note) *	0080ASS
24 Line Digital I/O Card **	0088
8 Channel Analog I/O **	0089
Plug-in IC Patchboard **	0025L

* Fits on the 0084 card, which must also be ordered.

** Requires Extension Patchboard 0026P51.



Microprocessor:

Intel 8080A with 8-bit Data Bus, 16-bit Address Bus, Single cycle, Single Instruction and Continuous modes.

Controls and Display:

- 3-Toggle Mode Control for Load/Run, Single Instruction, Single Step and Continuous Modes.
- 2-Toggle Switches for direct Interrupt and Hold Controls
- 3- Control Display LED for Wait, Interrupt and Hold
- 8-bit Data Bus LED Display
- 16-bit Address Bus LED Display
- 8-bit Status Port LED Display
- 20-key Hex Keyboard for Data and Instruction entry
- 8-bit Input Port, with switches and pins for external inputs
- 8-bit Output Port, switches and pins for output connections
- 8-bit Interrupt, switches and pins for external connections

PCB/External Connector

43-way PCB Socket for external connections to MPT0026 Experimenter Board using flat cable connector. The MPT 8084 VDU Interface & RAM card can be plugged in directly in this socket for connecting to a VDU terminal or PC Serial Port. For interfacing experiments, order the Microtutor Extension Patchboard MPT 0026..

Add-on Accessories for Microtutor

0026P51	Microtutor Extension Patchboard (see Logic Tutor & IC Patchboard Leaflet)
0084	VDU Interface, & RAM, use with MPT 0026 (or, plug it in directly the 43-way socket)
0080BAS	BASIC Language, ROM to fit 0084 Card
0080ASS	ASSEMBLER ROM to fit 0084 Card
0088	24 Line Digital I/O Card, use with MPT 0026
0089	8 Channel Analog I/O, use with MPT 0026
0025L	Plug-in IC Patchboard, use with MPT 0026.

Power Supply 230 VAC or 115 VAC 50/60Hz.

Size and Weight 420 x 265 x 85 mm, 3 Kg approx.

(Please specify 230V or 117V AC Input when ordering)

"I never really did understand how microprocessors worked... till I attended a Limrose Microtutor course.. Excellent"

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