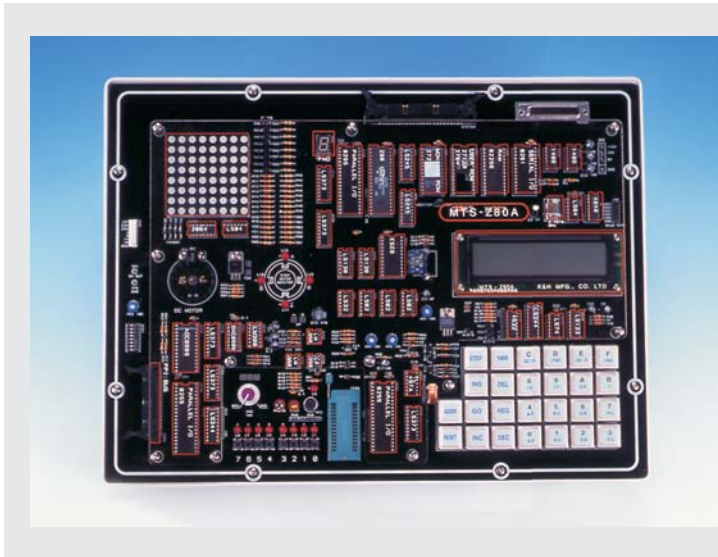




MTS-80A

Z-80 Microcomputer Trainer



MTS-80A helps students to understand the architecture and programming of Z-80 computer. The system contains five main parts: (1) a Z-80 CPU (2) system and user memory (3) world standard chip sets (4) input and output devices, and (5) External Interface.

Students edit and assemble program codes from PC and observe instant results after they download and execute programs from system memory. Debug functions are also available via PC or system keypad interface.

► Features

- Power supply and all experimental peripherals are built in a single trainer to carry out Z-80 experiments, no additional equipment is required.
- Demo programs are permanently stored in system ROM to offer quick system test and functional demonstration.
- Programming codes are downloaded/ debugged/ executed via PC or Trainer keyboard
- All chip sets are protected by an acrylic cover on the top of trainer panel.
- All chip names are clearly printed in corresponding position on acrylic panel
- External Interface allows user to create user-defined circuits.

► Specifications

1. CPU
Z-80 CPU clock 2.4576MHz
2. RAM
62256 (32KB)
3. ROM
27256 (32KB)
4. User memory
2764 or 27128 (ROM writer)(empty socket)
5. I/O
 - (1) A/D converter
ADC 0809 (8 bit x 8 channel)
 - (2) D/A converter
DAC 0808 (8 bit x 1 channel)
 - (3) I/O port
8255 x 3
 - (4) Timer/counter controller
8253
 - (5) Serial port
8251 (RS-232C, 25pins)

- (6) Display
LCD (16x2 line)
- (7) Keyboard
26-Key
6. Experimental device
 - (1) A/D experiments contain
VR, photo, TR, thermistor, MIC
 - (2) D/A experiments contain
2W AMP, speaker, DC motor, photo coupler
 - (3) Speaker, MIC
 - (4) Thermistor sensor control function
 - (5) Photo sensor control function
 - (6) Stepping motor driver status is simulated by LED
 - (7) AMP, recorder
 - (8) I/O simulation LED x 8, button switch x 8
 - (9) Dot matrix sign board : 8 x 8 (3 colors)
 - (10) FND control function
7. Switching power supply
AC in : 90~260V
DC out : $\pm 12V$, +5V
8. EPROM writer : 28 pin textool
9. Test point : 2
(sine, triangle, pulse wave)
10. Battery back-up function

► Accessories

1. Experiment manual 1 pce
2. I/O board and cable 1 set
3. RS-232 cable 1 pce
4. AC cord 1 pce