



MTS-86C

8086 Microcomputer Trainer



MTS-86C helps students to understand the architecture and programming of 8086 computer. The system contains five main parts : (1) an 8086 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 8086 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 : 8086
2. Display unit : LCD (16x2 line)
3. Main RAM : 62256 x 2 (64KB)
4. Monitor ROM : 27256 x 2 (64KB)
5. User memory : 27256 x 2 or 62256 x 2 (64KB) (empty socket)
6. Clock generator : 8284
7. I/O
 - (1) A/D converter
ADC 0809 (8 bit x8 channel)
 - (2) D/A converter
DAC 0808 (8 bit x1 channel)
 - (3) I/O port
8255 x 3

- (4) Interrupt controller
8259
- (5) Timer/counter controller
8253
- (6) Keyboard / display controller
8279
- (7) Serial port
8251 (RS-232C, 25pins, 2sets)
- (8) Keyboard
24 Key
8. Experimental device
 - (1) A/D experiments contain
VR, photo TR, thermistor, MIC
 - (2) D/A experiments contain (2W AMP, speaker)
 - (3) Speaker, MIC
 - (4) Thermistor sensor control function
 - (5) Photo sensor control function
 - (6) AMP, recorder
 - (7) I/O simulation LED x 8, button switch x 8
 - (8) FND control function
9. Switching power supply
AC in : 90~260V
DC out : $\pm 12V$, +5V
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