

**M86-01****8086 Microprocessor Trainer Kit**

**M86-01** is a single board Microprocessor Trainer Kit based on 16 bit 8086 Microprocessor, which is widely used to train engineers to develop software/hardware for any industrial process & control. This Kit consists of power-full Monitor EPROM, RAM, I/O Lines, Timer/Counter, Serial, Seven Segment Display and Keyboard for Man to Machine Interface.

**Features**

- ✓ 16K Bytes of EPROM with 16K bytes of Battery Backup RAM.
- ✓ 72 I/O Lines, Three Channel Timer/Counter, PC Serial Interface using USART, Interrupt Controller.
- ✓ Seven Segment Display with 28 Keys Hex Keypad.
- ✓ Power-full Command like Single Stepping, Break Point, Full Clock Execution, Examine Memory/ Register.
- ✓ Uploading & Downloading to and from PC in Windows98/XP/NT.
- ✓ In-Built Power Supply.

**Specifications**

- 8086/8088 CPU operating at 2.5/5MHz
- 8086 Processor can be replaced by 8088 Processor

- On-board sockets provided to facilitate the use of 8087 Co-processor and 8089 I/O Processor
- 16K bytes of RAM using two nos. of 6264 with Battery Backup expandable up to 256KB.
- 16K bytes of powerful monitor EPROM using two nos. of 27512
- 72 I/O lines through 3 nos. of 8255 brought at 26 Pins FRC Connector to interface with IC-XX Series.
- 16 bit Timer/Counter through 8253 brought out at 20 Pins FRC Connector.
- RS-232C interface using 8251 brought out at 9 Pins D-Type Connector.
- On-board Interrupt controller using 8259 brought out at 20 Pins FRC Connector.
- 28 keys hexadecimal keyboard and eight seven segment display using 8279
- Two modes of operation:
  - Keyboard Mode
  - Serial Mode
- Powerful Commands like Examine/Edit Memory, Examine/Edit Register, Single stepping, Execution, Block Move can be used through hex keyboard or PC serial mode.
- Facility for Downloading/Uploading files from/to PC.
- All address, data & control lines are available on KXT Bus 50 pin FRC Connector to interface with SC-XX Series.
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply of +5V/2A, ±12V/250mA
- Attractive ABS Plastic enclosures.
- User's Manual with sample programs.

**Optional**

- PRINTER INTERFACE to interface with DOT MATRIX Printer
- On-board EPROM Programmer for 2732/2764/27256

Note : Specifications can be altered without notice in our constant efforts for improvement.