8051 Micro ControllerTrainer uses 8051 versatile micro-controller. This controller finds estensive applications in automation. This is because of its architecture and built-in I/O capabilities. The use of this controller considerably reduces the chip count in the final product design. Hence this finds extensive applications in automatic vending machines, weighing machines, welding machines, microwave ovens etc. Therefore it becomes necessary to study the function and its capabilities, by experimentation.

The Micro-controller trainer is an IBM PC/XT/AT & Pentium compatible instrument. This is a single PCB module. The instrument is connected to serial port of IBM computer at RS232C port. A 50 pin FRC connector provides unbuffered Address, Data and Control Lines. This may be used for system expansion at a later date.

**Features:**
01. In addition to this, it has features to modify and display internal as well as external memory locations.
02. Dump memory contents in some other location as specified.
03. Move a block of memory from a source address to destination address.
04. Execute from a specified memory location.
05. Display contents of all register and alter a few or all registers.
06. Facility to stop execution once a break point location reaches.
07. The unit is operative on 230V, 50 Hz A.C. Mains.
08. Strongly Supported by Detailed operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

**Specifications**
- **CPU** : 8051 Micro Controller 12MHz..
- **MEMORY** : 32KB EPROM, 32 KB RAM and 2KB NV RAM. Battery Backup for RAM.
- **PERIPHERALS** : 8279 for controlling 24 feather keys (including 6 digit seven segment display).
  : 32 programmable I/O pins (24 from 8255 and 8 from port 2 of 8051).
- **POWER SUPPLY** : ±5V @ 500mA . All assembled in an well designed cabinet.
- **ACCESSORIES** : 50 pin FRC Cable 1 No.

Note: Specifications are subject to change.