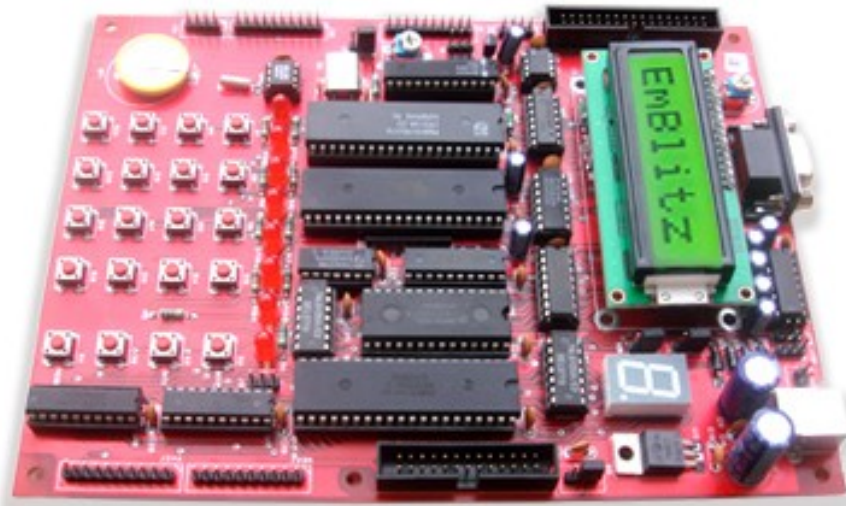


## Embedded Starter Kit

Product No :Ec 95800



### Board Features:

- Processor: 89V51RD2
  - 64KB Internal flash memory
  - 1 KB RAM
- 2 x 8255 PPIs
- 1 Serial port(For ISP & Serial communication)
- 16 push button switches
- 1 Seven Segment Display
- 1 LCD module
- 32KB External RAM
- 1 USB connector for power supply
- On-board Real Time Clock
- On-board ADC interfaced to 10K Pot & Temperature sensor
- All peripherals are memory mapped.

### P89V51RD2 Chip Features:

- 5 V Operating voltage from 0 upto 40 MHz frequency.
- 64KB of on-chip Flash memory with ISP (In-System Programming) and IAP (In-Application Programming)
- Supports 12-clock (default) or 6-clock mode selection via software or ISP
- SPI (Serial Peripheral Interface)
- 1 Enhanced UART
- Four 8-bit I/O ports with three high-current Port 1 pins (16 mA each)
- Three 16-bit timers/counters
- Programmable Watchdog timer (WDT)
- Eight interrupt sources with four priority levels
- Second DPTR register

- Low EMI mode (ALE inhibit)
- TTL and CMOS compatible logic levels
- Low power modes
  - Power-down mode with external interrupt wake-up
  - Idle mode



#### Contents of Kit:

- 8051 Evaluation Board
- Serial Cable
- USB cable
- Extra jumpers
- Software CD containing UMPS IDE, Flash Programming Utility, Datasheets, User Guide, Quick Start Guide, Schematics, Example codes and Case studies

#### System Requirement:

- **Hardware requirements:**
  - A PC with serial (RS232) port. If serial port is not available, a USB to serial converter (Ec95829) can be purchased from us.
  - A USB port to provide power supply for the board.
- **Software requirements:**
  - MS Windows 98/ME/NT/2000/2003/XP/Vista

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