

MicroStart 51 : Microcontroller 8051 Starter Kit

Includes Power Supply; eTutor & buy back options

Audiolec's MicroStar51 is a **self contained**, 8051 microcontroller learning kit with optional email based **tutorial** help. MicroStart offers a convenient platform for practicing 8051 programming on actual hardware.



Model A

(with power supply/ Metal casing
serial cable/protective pouch)



Model B

(with serial cable/protective pouch)

- ◆ Designed for a **quick & easy start**. - Connect kit's power cord to 230V mains wall socket, connect kit to your PC's serial port and you are ready to start!
- ◆ Optional **USB to serial adapter** cable useful for laptops.
- ◆ **No switch required** to select program / run mode. Directly download and run the program using the programming software on PC.
- ◆ Several useful **sample programs** supplied with the kit. A beginner can start with a simple exercise: Interfacing an LED, and go on to programs interfacing more complex devices e.g. displays, keyboards, ADCs (listed below).
- ◆ **Buy back** offer – return the kit in specified time and get back more than half!
- ◆ **Expert help** via email from **eTutor** (Optional)

The kit is built around NXP (Founded by Philips) **microcontroller P89V51RD2**, a member of the 8051 family. The P89V51RD2 is **in-system programmable** and has **built in program memory**. Devices connected to microcontroller are:

1. 8 x LEDs
2. 2 x seven segment LEDs
3. 16 x 2 LCD
4. Key pad with 12 keys (3 simple and 3x3 matrix)
5. RAM (8K Bytes)
6. E²PROM (I²C interface)
7. ADC (parallel interface)
8. ADC serial (SPI interface)
9. Temperature sensor
10. Infrared receiver
11. PS/2 socket
12. D9 socket for serial communication with PC
13. D9 socket for external connections to Port 1

An accompanying CD contains several sample programs and software to write code and program the microcontroller.

eTutor51 (Optional): It is a set of exercises and help of our expert, an email away. Your tutor corrects student programs on tutor given exercises, gives useful hints and helps student complete the exercises. After satisfactory completion of all exercises tutor issues to the student Audiolec's **Certificate of Proficiency** in Microcontroller 8051 Programming.

Audiolec Instruments : www.audiolec.com / audiolec@pn2.vsnl.net.in

Pune, India

Ph : +91 9422366562