

1.ADVANCED 8051 MICROCONTROLLER KIT-3NOS

- 8051 CPU
- Speed up to 25MIPS
- 22 vector interrupt sources
- 4352 bytes of internal RAM
- 64Kbytes of flash memory
- 64Kbytes external memory interface
- Internal programmable Oscillator 2-16MHz.
- 8 bit ADC
- 12 bit DAC
- Analog comparators
- On chip JTAG Debug
- Power supply voltage 2.7v -3.6v
- Power saving sleep mode and shutdown.
- 16 x 16 dot matrix LED dot matrix display
- 128x 64 LCD display
- PC-MCU communication via RS232
- Stepper motor control
- General purpose 16 bit timer/counter
- Watchdog timer
- Voice chip ISD 1730 control(play and recording)

2.DC MOTOR CONTROL SYSTEM-1NO.

- One 12Volt PMDC motor
- Optical sensor with F/V converter provided to sense the speed of the motor at outputs of 0-10Volt corresponding to 0-1500 rpm speed.
- PWM amplifier to feed the armature voltage Output: 0-12Volt
- DC/Lamps, amplifier, F/V converter and DPM should be present.
- The PMDC motor with optical sensor should be fixed on a mechanical frame.
- It should be possible to do the following Experiments with the module
 - Speed control of the DC motor using PLC
 - To study the closed loop operation of DC motor in PID mode by using
 - Proportional, integral, derivative gain.