BS Electronics
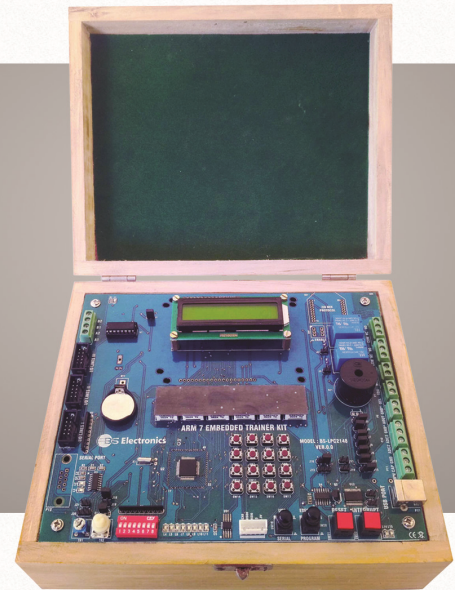
LPC2148

ARM7 EMBEDED TRAINER KIT

BS-LPC 2148 Kit, is s single board microcontroller Trainer kit based on High speed 32-bit MCU from NXP. It integrates on board SERIAL/USB Ports, Buzzer, Temperature sensor interface,Output LEDs, Input Switchs,Relays, BI-Directional Stepper Motor Interface, Matrix keys, an ADC input and DAC Output and 16 x 2 LCD Display to create a stand-alone versatile test platform.

Features

- CPU: LPC 2148 Microcontroller
- PC USB Interface
- ISP Programming facility

Special Features

- ON Board BI-Directional Stepper Motor Interface
- ZIG BEE PROTOCOL ((Range-400ft (120m))

Experiments

ADC

- Measurement of conversion time, measurement of actual throughput of ADC and effect of resolutionof ADC in Applications
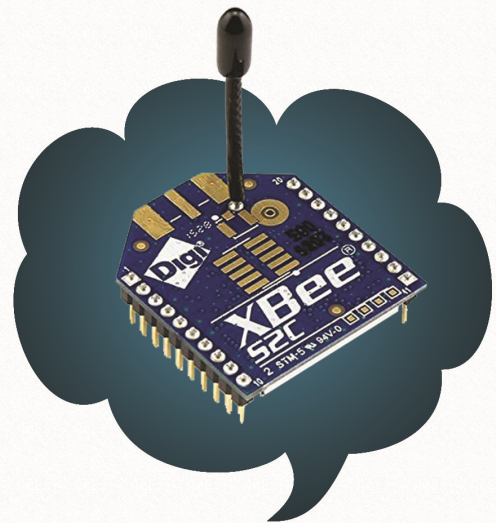
DAC

- Measurement of selling time and Different waveform selection

STEPPER MOTOR

- Study of type of operation modes of stepper motor like two phase drive, wave drive, Half step drive

INTERRUPT

- Study of Interrupt using internal of device

Other Experiments

- ▸ 8 No's of Digital Input Switches
- ▸ 8 no's of Digital Output LEDs
- ▸ 16 x 2 LCD Display
- ▸ 6 no's of Seven segment displays for RTC Applications
- ▸ RTC interface using I2C
- ▸ 4 x 4 Matrix Keys
- ▸ 2 No's of Relay with output is terminated in connector.

- ▸ Buzzer is terminated in connector
- ▸ I^2C compatible
  - 24LS256 EEPROM
  - DS1307 RTC with suitable battery
    - Temperature sensor LM35 interface
    - 24 I/O Lines Provided on a 3Nos. of 10 pin FRC connector external interface

Note - 8051 catalog Last five lines added but first line +5V /1.5A only correction