

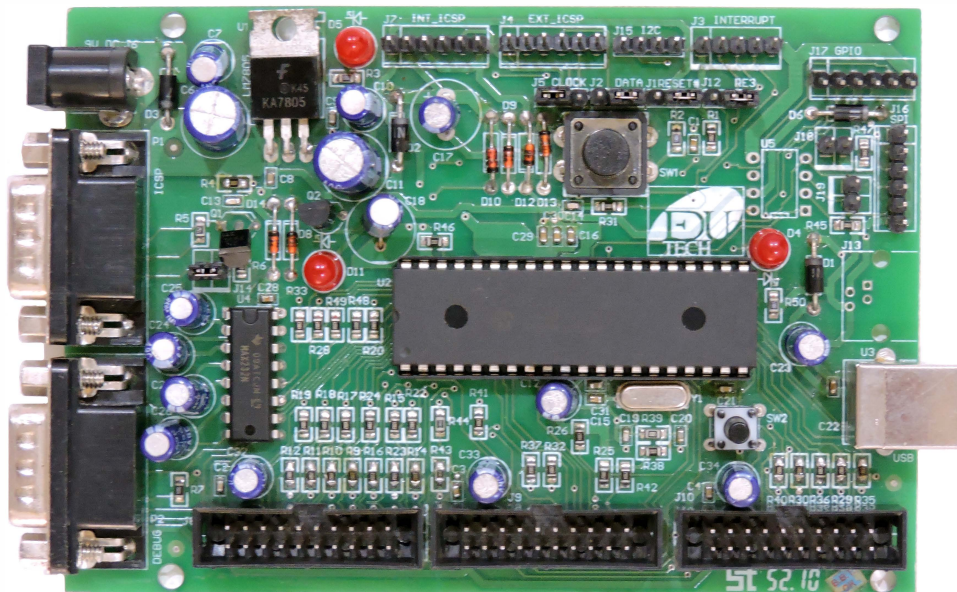
Microcontroller Lab

Edutech offers a comprehensive lab setup for microcontroller lab featuring PIC microcontroller

Description

This Basic Microcontroller Lab program is specially designed keeping in mind the curriculum requirements. This lab offers 8 bit platform thus enabling the students to have a complete experience to work with PIC microcontroller. This lab also includes different development tools in the form of IDEs. The pluggable GPIO interfacing kit offered in this lab setup can be interfaced with different target CPU boards thus mastering the art of programming and interfacing. The documentation provided includes lesson plans, manuals and workbooks with complete procedures of operations and experimentation.

Educational Practice Board for PIC18F4455



- Ideal board to start up with PIC microcontrollers
- Features the PIC18F4455 CPU with 24K on-chip flash memory.
- Flash programming using USB eliminating the need of external programming device
- Two 20 pin connector for GPIO interfacing
- One 20 pin header for 13 channels 10 bit ADC interfacing.
- Two UART connectors
- External interrupt connector
- On-board I2C, SPI, USB, UART connectors
- Low cost & ideal for project development work

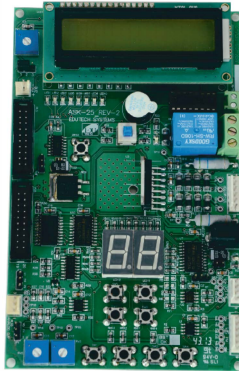
Microcontroller Lab

All-in-one General Purpose Board

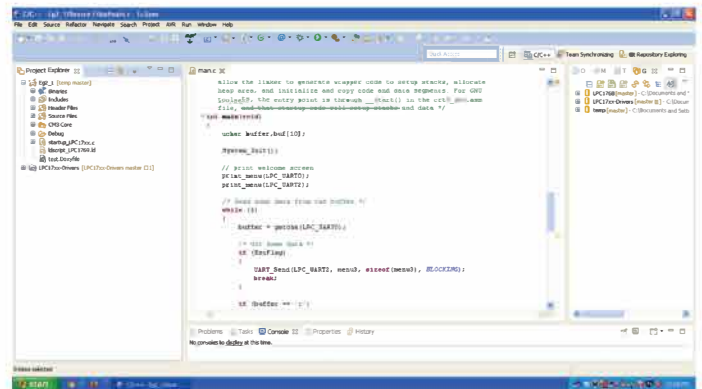
The All-in-one GPIO board is specially designed to suit the experimentation on different GPIO devices with the micro controllers.

Features:

- On board display options include 8 LED, 16x2 character LCD, 2 digit 7-segment display
- Switches include 4 general purpose keys and 2X2 matrix keyboard
- I2C and SPI based EEPROMs for protocol demonstration experiments
- Stepper motor interface with built-in H-bridge driver IC
- DC motor interface with DC motor
- Relay output
- Facility to provide 2 channel ADC input using potentiometer and unity gain amplifier for protection



Eclipse based Integrated Development Environment (IDE) Tool:



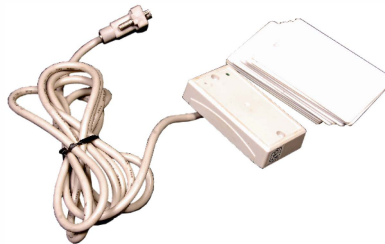
The general purpose Eclipse based IDE is a easy to use development platform which can be used for windows as well as Linux environment.

This IDE tool supports different microcontroller platforms like 8051, PIC, AVR, ARM7.

Project Interfacing Kits



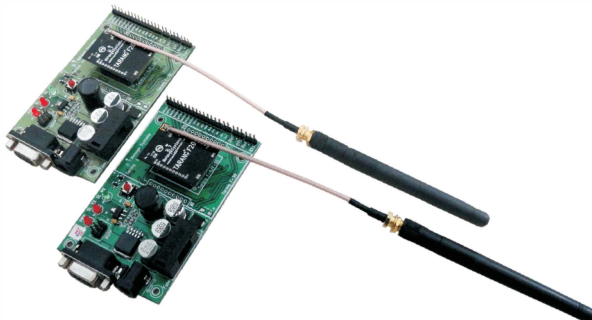
Thermal printer:



RFID



Finger Print Sensor



ZigBee Interfacing Kit



GSM Modem Interfacing Kit

*Images are for reference only