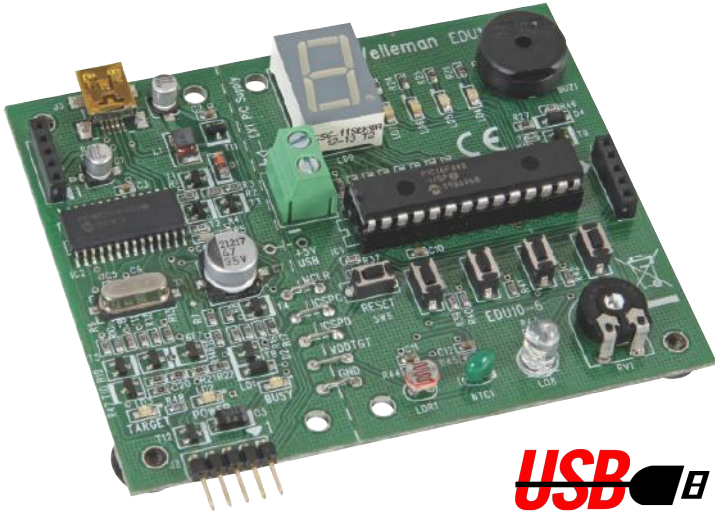# USB PIC programmer and tutor board

Component : EDU10

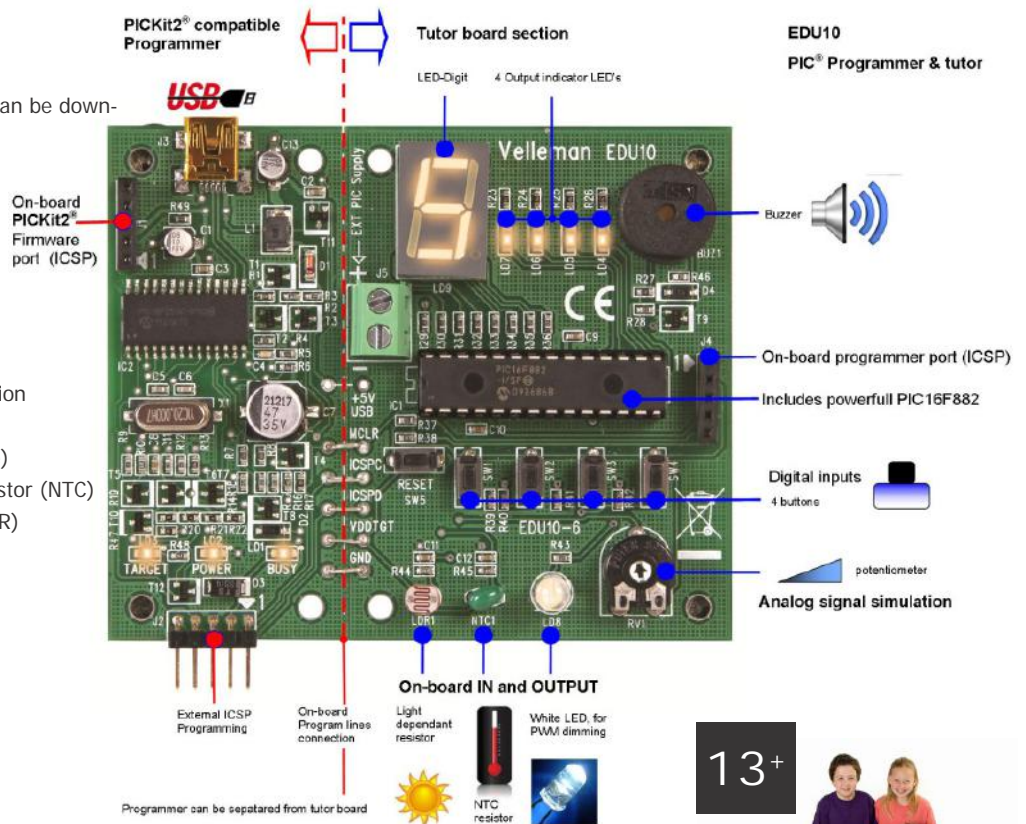Want to set the first steps into Microchip PIC programming? This board is all you need!
The tutor can help to get you started into the magic world of PIC programming. Later it can also be used for more advanced programming.
Use the free tools from Microchip®; the PICKit2™ programmer tool and the MPLAB® IDE environment.

Specifications

- Experiment module can be powered via USB
- Power output to target is supported
- Indicator LEDs for power supply and programming mode
- Dimensions:
    - O Programming and Learning Module: 90 x 74mm / 3.54 x 2.91"
    - O Programmer only: 34 x 74mm 1.34 x 2.91

Features

- PICKit2 compatible programmer
- Includes : PIC16F882
- Tutor sample programs in "C" and "assembler" can be downloaded:
    - O Button input reading
    - O LED on/off
    - O LED blinking
    - O Buzzer and Display driving
    - O LED brightness
    - O Analog value reading
    - O ...
- Read up to 4 push buttons for 'digital in' simulation
- Light up to 4 LEDs for 'digital out' simulation
- Read the value of a potentiometer (analog value)
- Read the value of a temperature dependent resistor (NTC)
- Read the value of a light dependent resistor (LDR)
- Dim a white LED using PWM signal
- Learn how to drive a LED digit
- Learn how to drive a buzzer

Extras

- The boards can easily be separated, for independent programmer use
- An external supply connector for the tutor board is provided