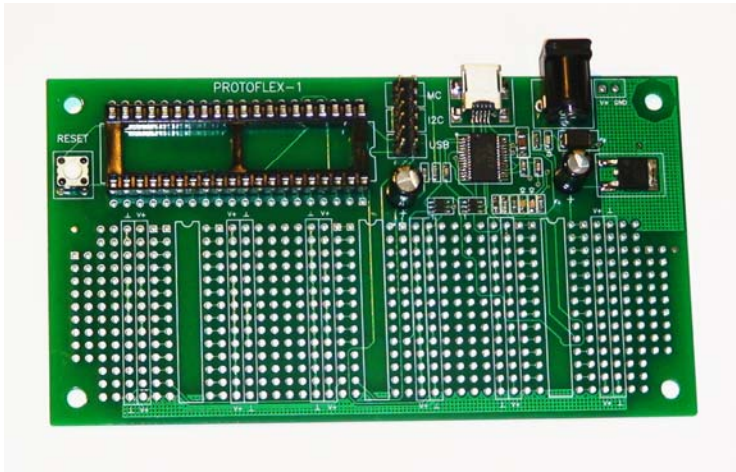


ProtoFlex Board



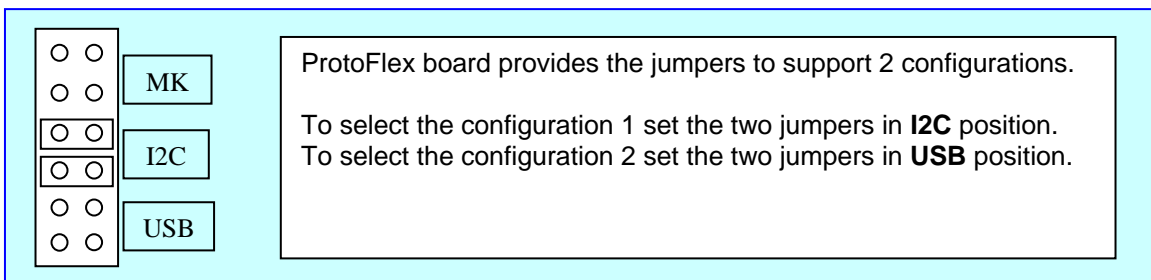
ProtoFlex board is a complete, low-cost development platform designed for those interested in using Parallax's BASIC Stamp and FLEXEL modules. The board can also be used to FLEXEL chip control from computer. Its compact size and convenient features make it an ideal tool for your projects.

Features

- Mini USB connector and USB-to-Serial converter for BASIC Stamp programming and serial communication during run-time.
- 2.1 mm center-positive plug for power supply connection.
- On-board regulator delivers up to 500mA current.
- 40 pin socket for BASIC Stamp module connection.
- 3 sockets for FLEXEL chips connections.
- On-board area for connections up to 48 RC Servo motors.
- On-board RESET button.
- Prototype area.

Mechanical Dimensions

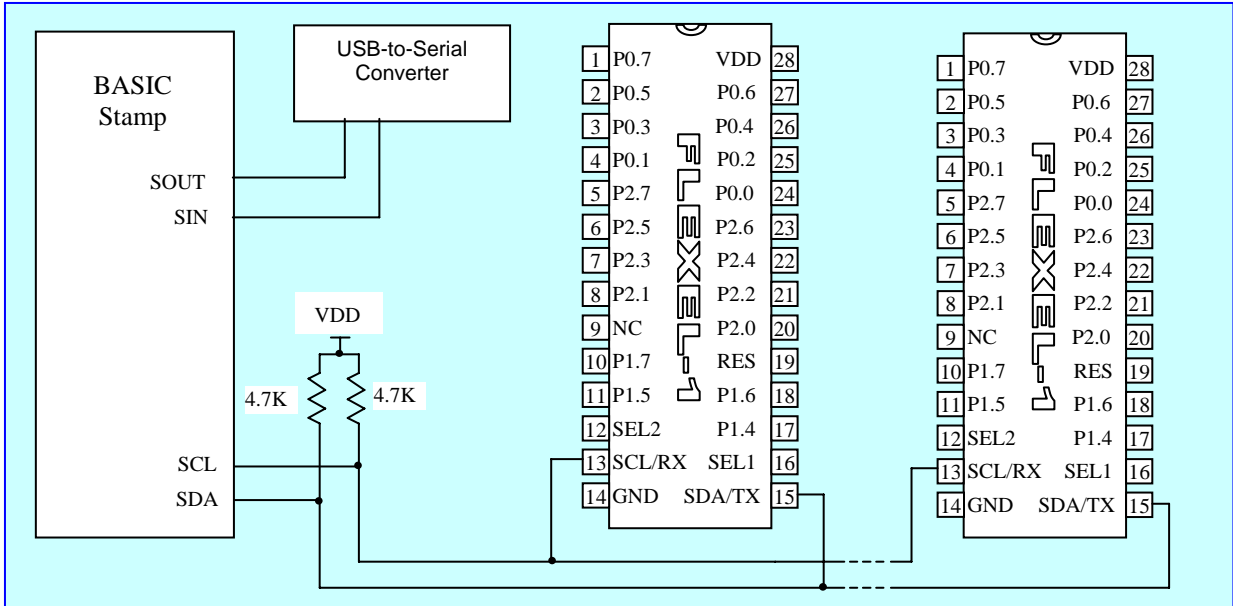
- PCB: 4.9" x 2.7" (125 mm x 69 mm).
- Mounting Holes 4.5" x 2.3" (114 mm x 58 mm).



Configuration 1.

USB-to-Serial converter connected to BASIC Stamp SOUT and SIN pins to provide BASIC Stamp programming and serial communication during run-time. BASIC Stamp module works as I2C Master to control FLEXEL chips. FLEXEL chips connected to BASIC Stamp SDA (pin 8) and SCL (pin 9).

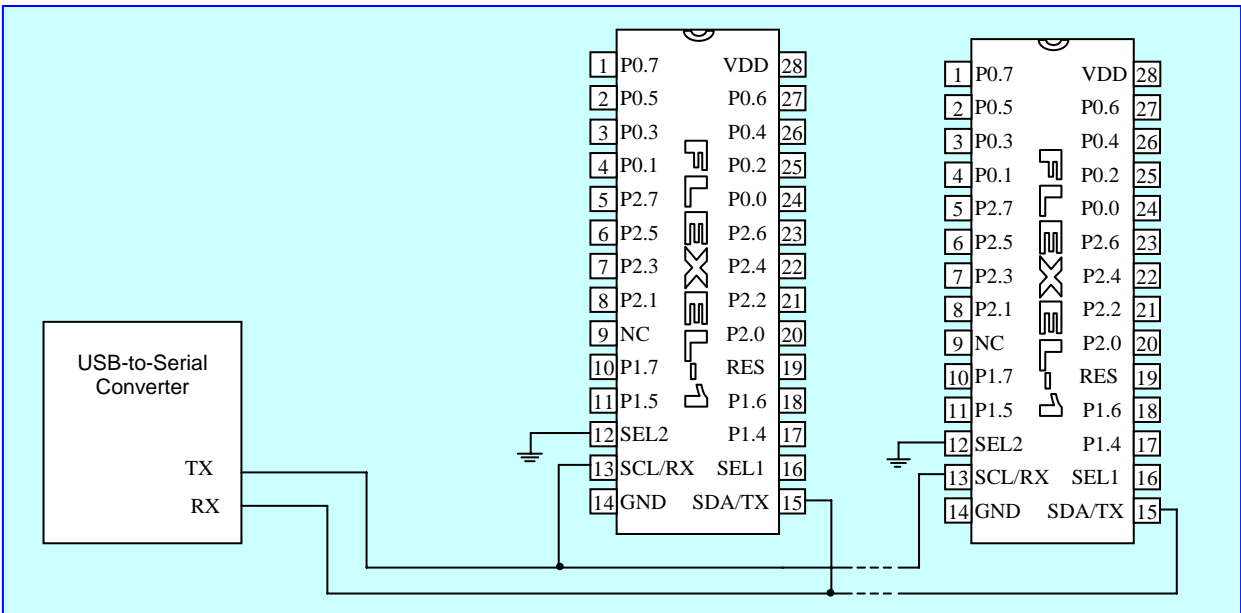
Note: ProtoPlus board includes I2C pull up resistors.



Configuration 2.

This configuration can be used to control the FLEXEL chips directly from computer (without BASIC Stamp module). USB-to-Serial converter connected to FLEXEL SCL/RX and SDA/TX pins to provide FLEXEL chips control and serial communication during run-time.

Note: FLEXEL SEL2 pin must be connected to ground.



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