

# Arduino Sketch Loader Circuit

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1.

## About Arduino Sketch Loader Circuit

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### **About Arduino:**

Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software.

It's intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments.

Arduino can sense the environment by receiving input from a variety of sensors and can affect its surroundings by controlling lights, motors, and other actuators.

Little understanding of C Programming syntax is enough to use the board for making variety of projects and applications.

This product is even recommended for school kids who are aware of C Programming.

This is the most successful method to introduce kids and even elders to the world of microcontrollers and embedded systems.

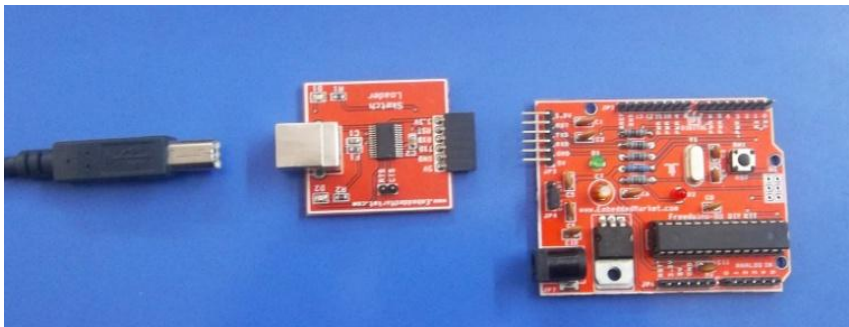
EmbeddedMarket.com is manufacturing Arduino Compatible boards since many years for now.

### **Who will need the Arduino Sketch Loader Circuit?**

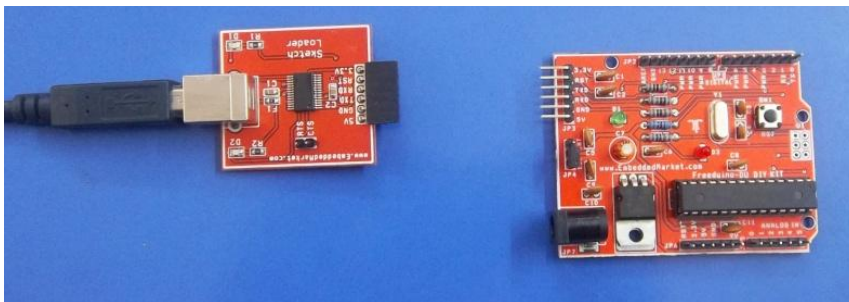
The Arduino Sketch Loader Circuit is must if you are building or using the "Freeduino DIY Kit - Arduino Compatible Do-it-Yourself Kit". This DIY kit requires the Arduino Sketch Loader Circuit to upload your programs.

## 2. Product usage steps

1. Keep the **"Freduino DIY Kit - Arduino Compatible Do-it-Yourself Kit"** ready to begin. The **DIY kit** has to be purchased separately and requires assembly.
2. Download latest Arduino Software from <http://arduino.cc/en/Main/Software> website
3. Unzip the downloaded file. No installation required.
4. Run arduino.exe
5. Connect one end of USB cable to PC / Laptop

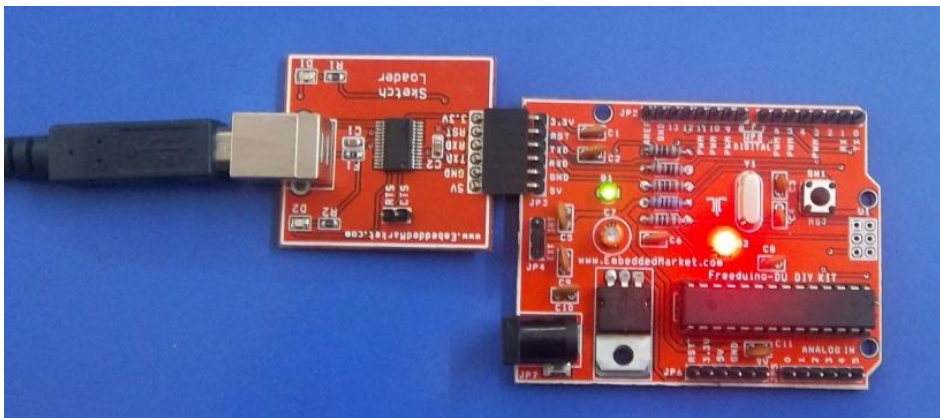


6. Connect the Sketch Loader Circuit to other end of the USB Cable. Two LEDs on the Sketch Loader Circuit will blink momentarily and will remain off thereafter.



7. If PC / Laptop ask for driver, then in the driver installation wizard, select driver file from sub directory "drivers\FTDI USB Drivers" located under the above unzipped Arduino software folder. The latest FTDI drivers are available at <http://www.ftdichip.com/Drivers/VCP.htm>

8. After driver installation is over, look into the Arduino Software's menu, Tools => Serial Port.
9. Select the Serial Port number COMxx where xx is unique number generated on your computer. In case you find multiple COMxx entries in this menu then observe which disappears after disconnecting the USB Cable from computer. The disappearing one is the correct to select.
10. Again in the Arduino Software menu, Tools => Board, select "Arduino Duemilanove or Nano w/ ATmega328". This indicates that your DIY Kit's type.
11. Now connect your board to the Sketch Loader Circuit as shown in the picture below. DIY Board receives power from your computer's USB port.



12. Again in the Arduino Software menu select, File => Examples => Basic => Blink. This will open the Arduino code for Blinking the Red LED on the board. The RED LED is connected to Digital Pin 13.
13. To upload the LED Blink code to your own built Arduino board, click menu File => Upload to I/O Board from the Arduino Software. Alternatively you may also click Upload button from Arduino software toolbar.
14. You will find that LED is blinking every second.
15. You may experiment in the code by adding more delay commands in the code on separate lines and upload again to the board.

## 3. Important information

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1. The “Arduino Sketch Loader” product is designed for experiments and is not suitable to be used in life support and mission critical products. It should be assembled and soldered under expert supervision.

2. Manufactured by:

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3. For Product Customization & Bulk orders, contact [sales@embeddedmarket.com](mailto:sales@embeddedmarket.com)

4. Arduino is trademark of Arduino.cc

5. Some text on page 3 is copied from arduino.cc