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Basics

ARDUINO AND A TM1638 MODULE

When I was browsing various web sites to see what electronic components to buy one day I noticed some interesting little kits comprising of switches, LEDs and a couple of 4 digit seven segment displays saw I decided to purchase one, the first thing I noticed was at the heart of the module was a chip called a TM1638, never heard of it. A quick search dug up links to the datasheet (link supplied underneath in the links section) and an arduino library (in the code section). That makes life easier.

The module I bought had 5 connections.
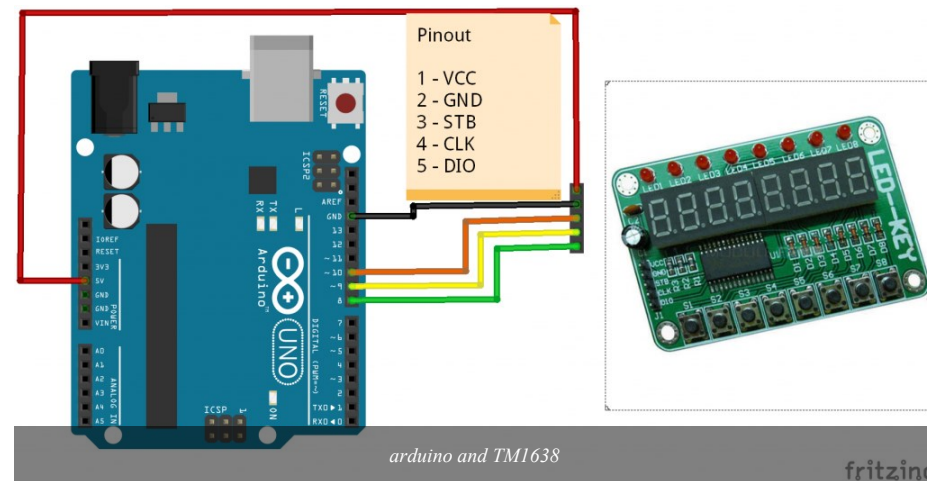
VCC – 5v from Arduino

Gnd – GND from Arduino

STB – strobe pin, an output from your Arduino

CLK – clock pin, an output from your Arduino

DIO – data pin, another ouput from your Arduino

Layout

arduino and TM1638

Code

You can get a library to make development easier from https://code.google.com/p/tm1638-library/

In the example below we use a couple of functions built into the library, there are various others that are available. We will count to 100 and then display a message.

setDisplayToDecNumber – Decimal numbers will be displayed

setDisplayToString – Displays some text on the segments

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34 Arduino Sensor Projects - Get it here

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```
 1    #include <TM1638.h>
 2    // define a module on data pin 8, clock pin 9 and strobe pin 10
 3    TM1638 module(8, 9, 10);
 4    unsigned long a=1;
 5
 6    void setup()
 7    {
 8    }
 9
10    void loop()
11    {
12    for (a=1; a<=100; a++)
13    {
14    module.setDisplayToDecNumber(a,0,false);
15    delay(100);
16    }
17    module.setDisplayToString("Complete");
18    delay(1000);
19    }
```

Links

TM1638 English datasheet

TM1638 F71A 8* Digital Tube + 8* Key + 8* Double Color LED Module

TM1638 LED keyboard scanning and display module

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