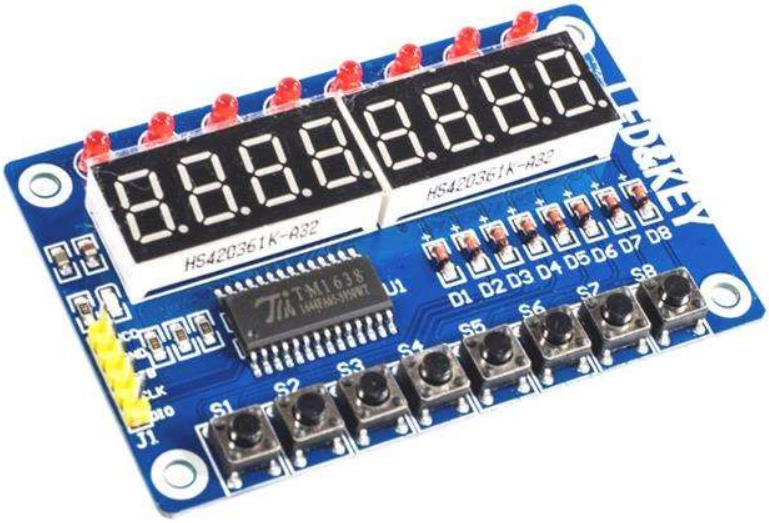
TM1638 7 Segment Display Keypad & LED Module

This 8 digit seven segment display module uses a TM6138 controller allowing full control of the display using just 3 digital pins on a micro-controller. In addition to the seven segment display there are 8 individually controllable 3mm LEDs and a keypad with 8 push buttons arranged in a single row. These can also be controlled through the TM6138 IC and so require no extra digital pins. A standard 5 pin header provides easy interface to the module from microcontroller.

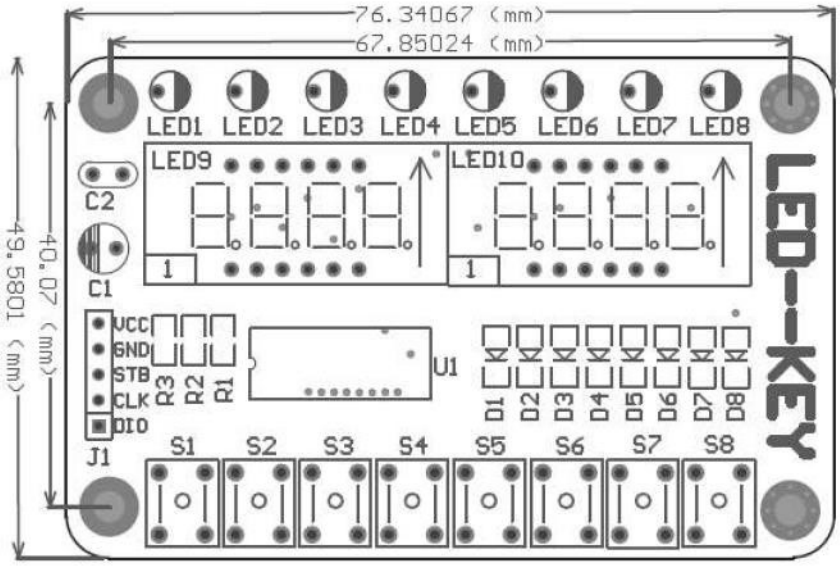


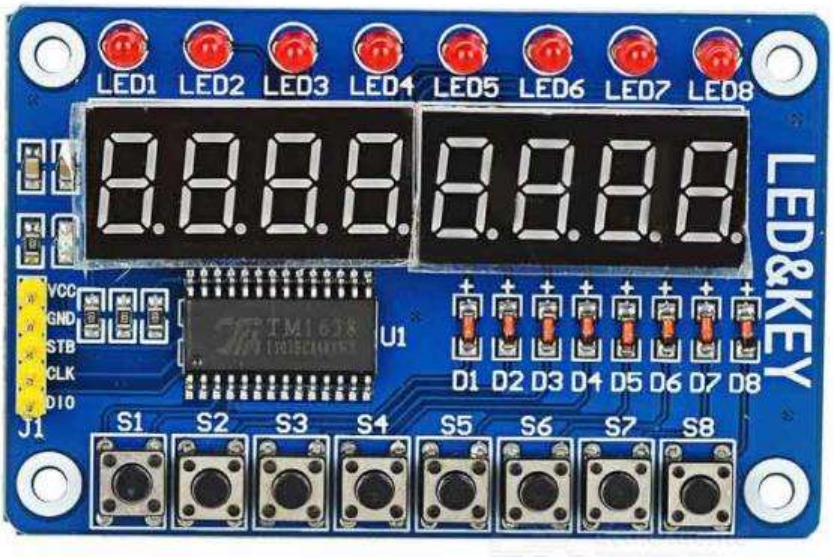
Brief Data:

- Display Type: 8-Digit 7-Segment.
- LED: 8 Red Color 3mm.
- Key: 8 Tactile Switches.
- Supply Voltage: 5V
- Controller: TM1638.
- Brightness Control on Segment.
- Interface: 3 Lines Serial (CLK, STB, DIO).
- Dimensions: 76mm x 50mm.

Mechanical Dimension:

Unit: mm

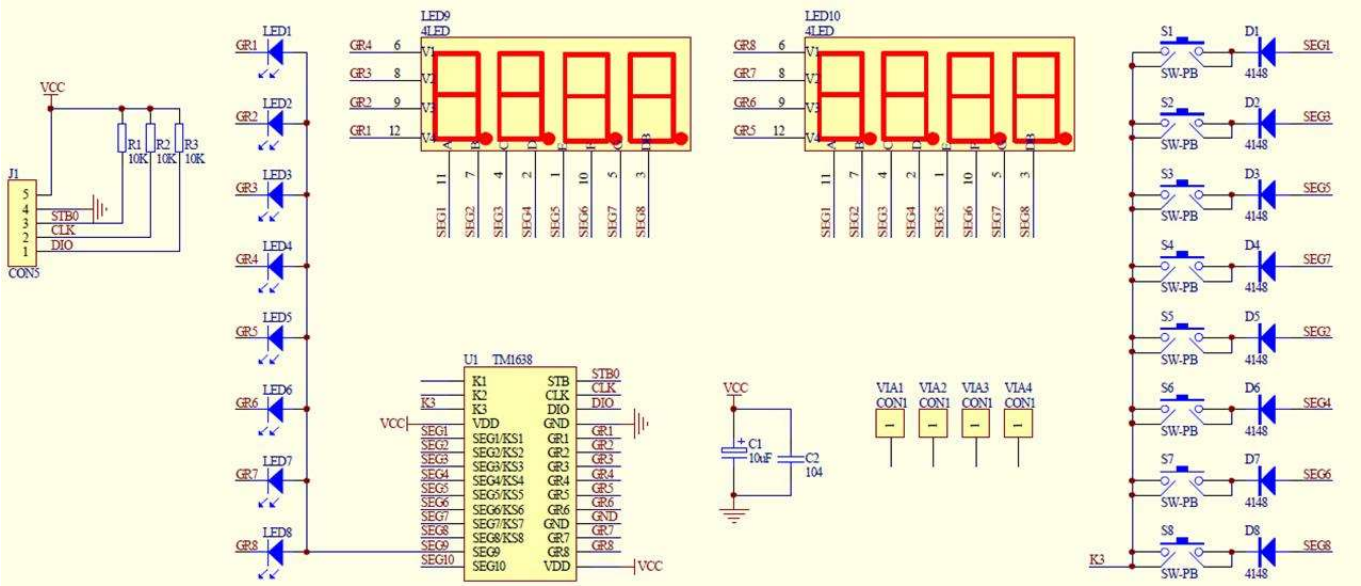


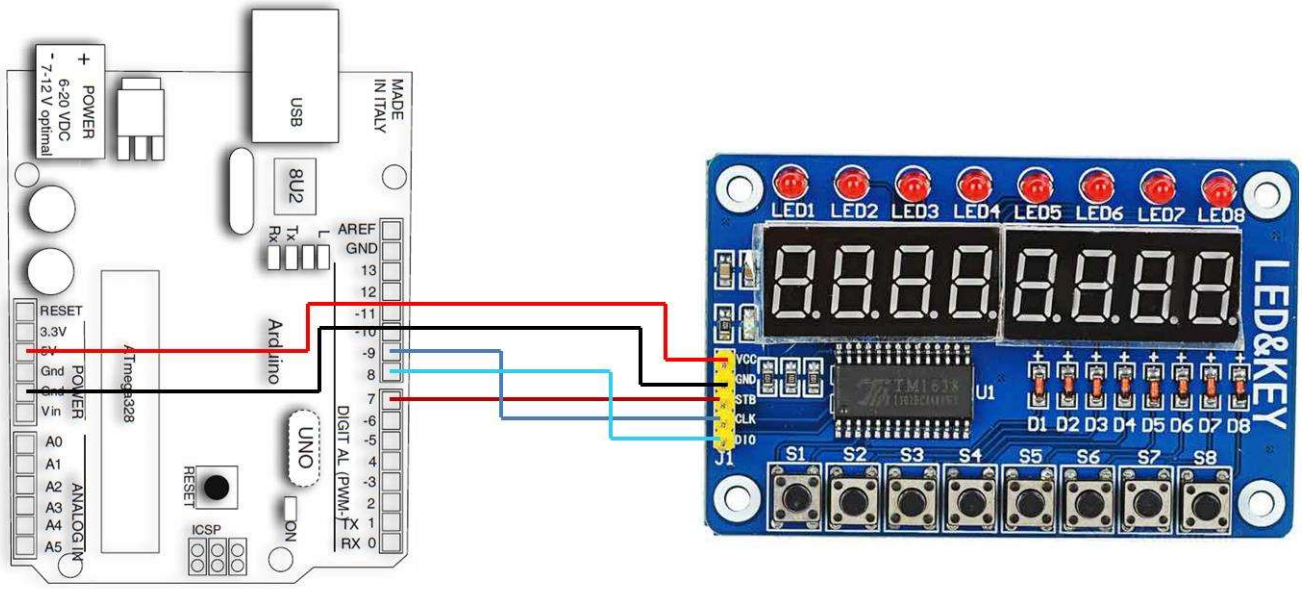


Pin Assignment:

Pin Name	Function
VCC	5~Vdc
GND	Ground
STB	Chip Select Input.
CLK	Clock Input
DIO	Data Input/output

Schematic Diagram:



Application Example with Arduino:

Connect the TM1638 module to Arduino Uno as the below schematic: