Data Sheet

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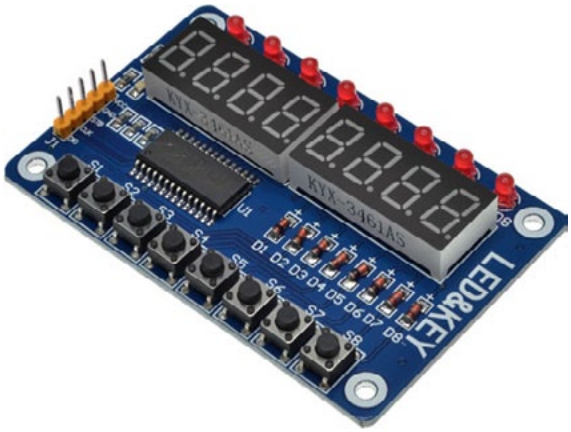
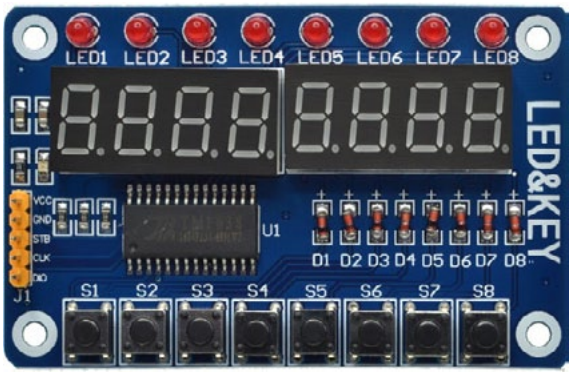
ARD2 Arduino Compatibles
Controllers, Shields, Modules & Sensors

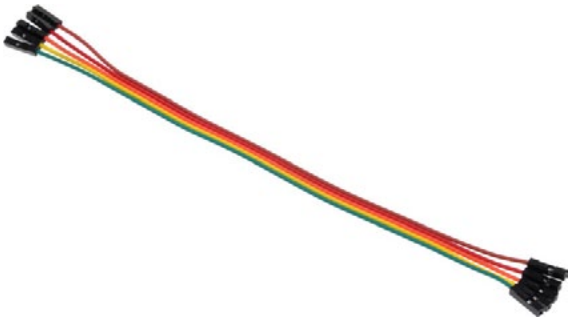
Arduino-Compatible 8 Digit Display Module with Push Buttons & LEDs

ARD2-2071

- **Display 8 characters**
- **Requires just 5 pins to control the module**
- **The 8 LEDs and 8 push buttons open up even more possibilities for applications**







These 8-digit display modules are perfect for any Arduino project that needs to display small amounts of characters. They are controlled by a TM1638 chip. Also features 8 red LEDs and 8 push buttons for extra functionality.

Specifications

Rated Voltage (VDC)	12
Voltage Range (VDC)	7.0–13.6
Input Current (A)	0.24
Chip	TM1638

Pinout

Board	Arduino	Description
VCC	5V	Power
GND	GND	Ground Connection
STB	7	Strobe
CLK	9	Clock
DIO	8	Digital I/O

ARD 2 **Arduino Compatibles**
Controllers, Shields, Modules & Sensors

Test Code

```
/*
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*/

#include <TM1638.h>

// define a module on data pin 8, clock pin 9 and strobe pin 7
TM1638 module(8, 9, 7);

byte dots = 1;
long value = 0x1234ABCD;

void setup() {
 // initialize serial communication at 9600 bits per second:
 Serial.begin(9600);
 // display a hexadecimal number and set the left 4 dots
 module.setDisplayToHexNumber(0x1234ABCD, 0xF0);

 delay(3000);
}

void loop() {

 byte keys = module.getButtons();
```

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Test Code

```
 Serial.println(dots);

 module.setDisplayToHexNumber(value, dots, true);

 // light the first 4 red LEDs and the last 4 green LEDs as the
buttons are pressed
 module.setLEDs(((keys & 0xF0) << 8) | (keys & 0xF));

 delay(50);

 dots = (dots * 2);
 if (dots == 0) {
 dots = 1;
 }

 value = (value +1 ) & 0xFFFFFF;
}
```

Source: grenville.wordpress.com/2012/06/02/an-led-display-with-pushbuttons-for-arduino-io/

To download the TM1638 library, visit the Resources section on the Wiltronics product webpage by clicking here.