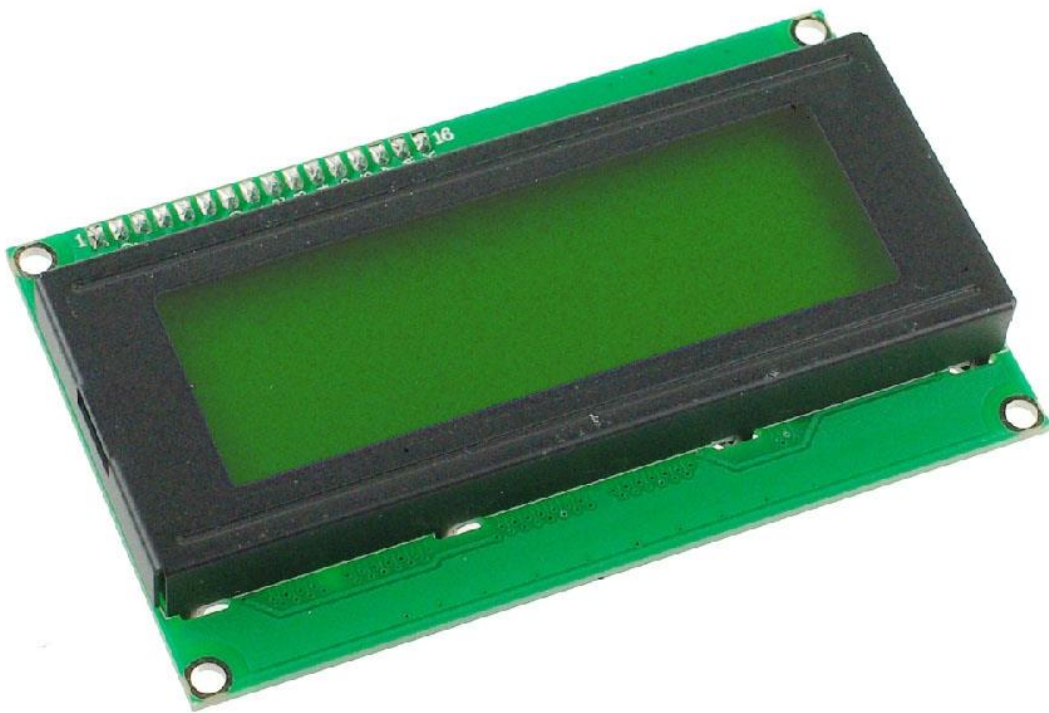


2004 I2C yellow-green screen



1. Introduction

As we known, some displays such as LCDs and LED display greatly enrich human-computer interaction, but they have a common feature that requires more IO lines when connecting to the controller. It is not good for those controllers with insufficient peripheral interfaces and also limits other functions of the controller.

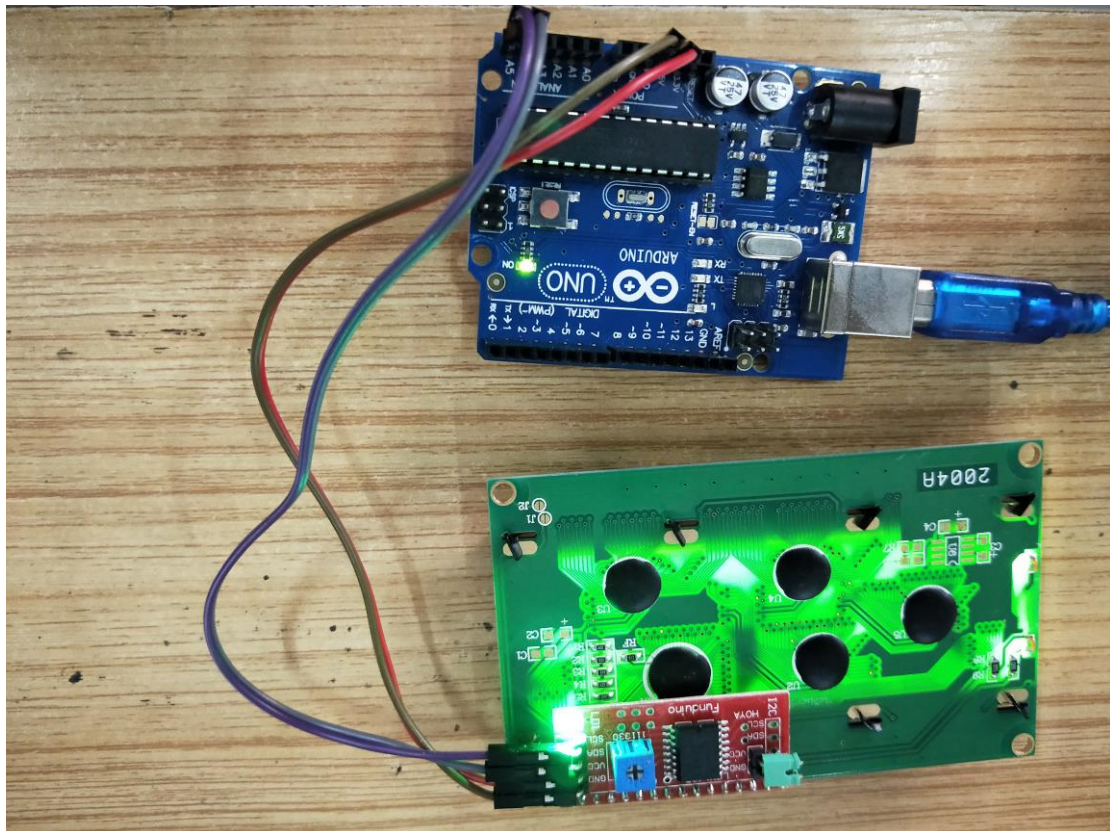
For this, our LCD2004 with I2C interface can solve this problem well, and it is relatively simple to use.

2. Feature

- Interface : I2C
- Address : 0x27
- Pins : VCC, GND, SDA, SCL
- Operating voltage : DC 5V
- Dimensions : 27.7mm×42.6mm
- Contrast adjustable : via potentiometer
- Only use two IO interfaces
- Color : black text on yellow background



3. Connection



2004 I2C screen	UNO R3 board
GND	GND
VCC	5V
SDA	A4
SCL	A5

4. Test Code

```
////////////////////////////////////  
#include <Wire.h>  
#include <LiquidCrystal_I2C.h>  
LiquidCrystal_I2C lcd(0x27, 20, 4); // set the LCD address to 0x27 for a 16 chars  
and 2 line display  
void setup()  
{  
  lcd.init(); // initialize the lcd  
  lcd.init();  
  // Print a message to the LCD.  
  lcd.backlight();  
  lcd.setCursor(3, 0);  
  lcd.print("Hello, world!");  
  lcd.setCursor(3, 1);  
  lcd.print("Hello, keys!");  
  lcd.setCursor(5, 2);  
  lcd.print("2018 10 08");  
  lcd.setCursor(0, 3);  
  lcd.print("ABCDEFGHIJKLMNQRST");  
}  
void loop()  
{  
}  
////////////////////////////////////
```

5. Test Result

Connect it up well and upload the code, the LCD screen will display the characters shown below.

