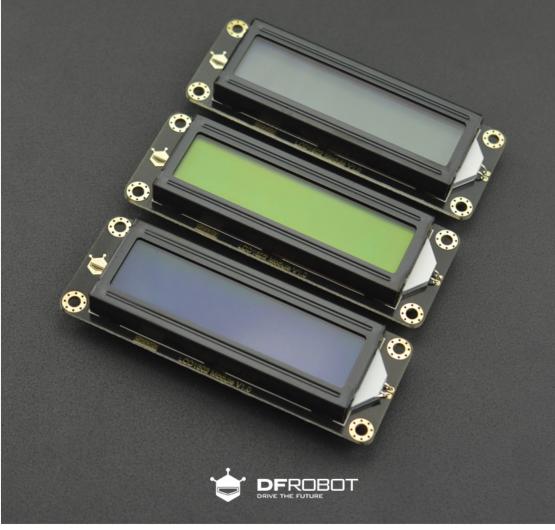
INTRODUCTION

Referring to the LCD16020, I believe that everyone is not unfamiliar with the square shape, green color, a row of 2.54 pin header.... LCD1602 module is a product of the DFRobot Gravity I2C series, which has been greatly optimized for its original LCD1602 appearance. This module does not need to adjust the contrast, retain the backlight controllable function, and simultaneously compatible with 3.3V and 5V voltage. The optimization of function and the appearance will bring you the different experience.

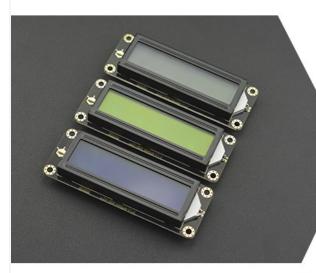
Gravity: IIC LCD 1602 Arduino LCD Display Module

(Grey Background Green Background Blue Background)

Gravity IIC Interface / Adjustable Backlight Brightness Compatible with 3.3V/5V / Three Background Colors to Choose





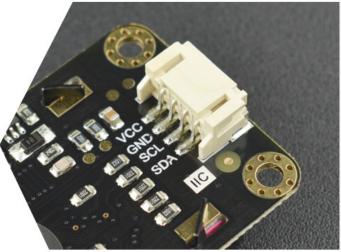


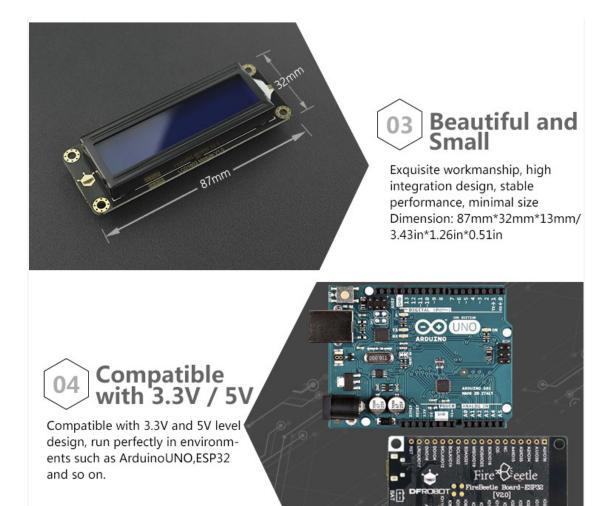
01 Adjustable Backlight Brightness

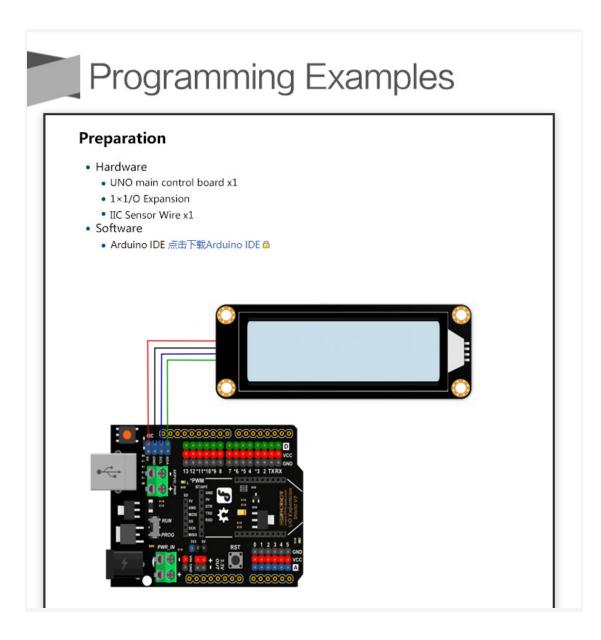
Three optional colors (grey/ blue/green) of display screen with adjustable backlight brightness.



Standard IIC interface, compatible with Gravity wire sequence , easy to use.

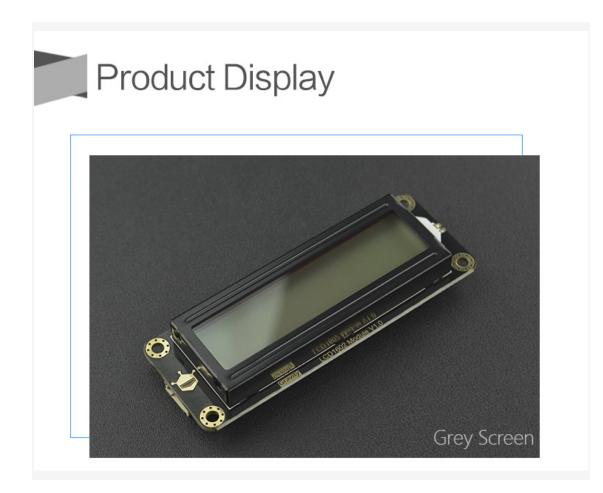




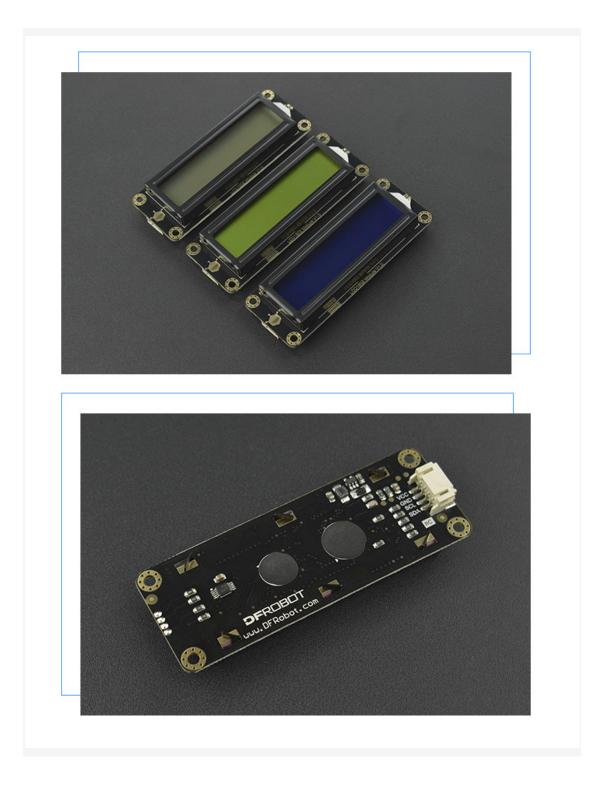


Sample Code

```
/*!
  * file Fade. ino
  * brief Fade.
  * Copyright [DFRobot] (http://www.dfrobot.com), 2016
  * Copyright GNU Lesser General Public License
  * date 2018-1-13
#include <Wire.h>
#include "DFRobot_LCD.h"
DFRobot_LCD lcd(16,2); //16 characters and 2 lines of show
void breath(unsigned char color) {
  for(int i=0; i<255; i++) {
     lcd.setPWM(color, i);
}</pre>
          delay(5);
     }
     delay(500);
     for(int i=254; i>=0; i--) {
          lcd.setPWM(color, i);
          delay(5);
     }
     del ay (500);
}
void setup() {
    // initialize
     \texttt{lcd.init} \ 0 \ ;
     // Print a message to the LCD.
     lcd.setCursor(4, 0);
     lcd.print("DFRobot");
     lcd.setCursor(1, 1);
lcd.print("lcd1602 module");
}
void loop() {
      breath(REG_ONLY);
}
```







Product Parameter



Num	Label	Description
1	VCC	3.3~5.0V
2	GND	GND
3	SCL	I2C-SCI
4	SDA	I2C- SDA

SPECIFICATION

- Operating Voltage: 3.3V~5.0V
- Operating Current: ≤20mA
- Display Description: 16*2
- Communication Mode: I2C
- Backlight: Gray
- Operating Temperature: -20 to +70°C
- Storage Temperature: -30 to +80°C
- Dimension: 87.0*32.0*13.0mm/3.43*1.26*0.51in

DOCUMENTS

- Product wiki
- More Documents

SHIPPING LIST

- Gravity: I2C LCD1602 Arduino LCD Display Module (Gray) x1
- Gravity I2C/UART sensor cable x1