

# I2C LCD1602(Blue)

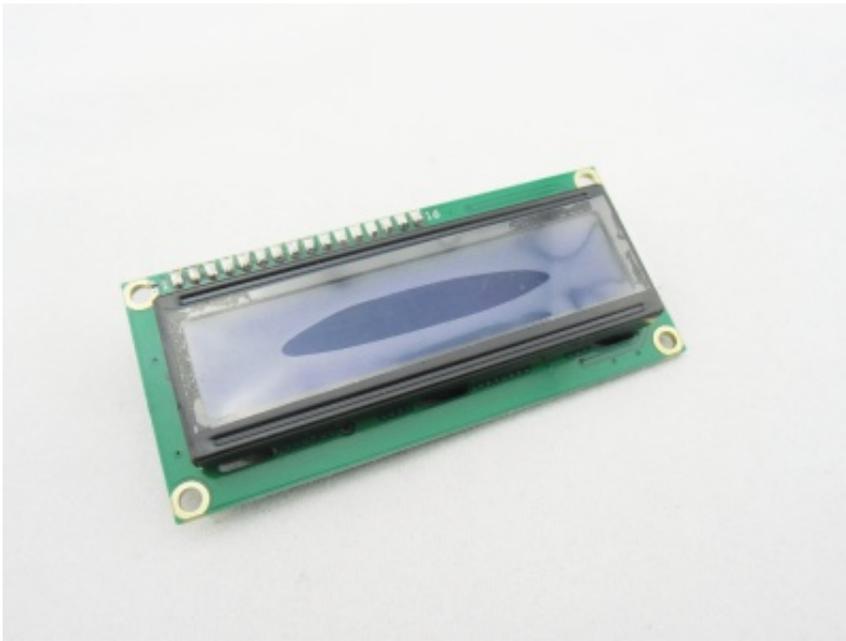
From Elecrow

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## Introduction

An LCD display that can display a max of 16x2 characters. with the help of the I2C bus convertor and related libraries, you can easily use this module with just 2 wires.



## Specification

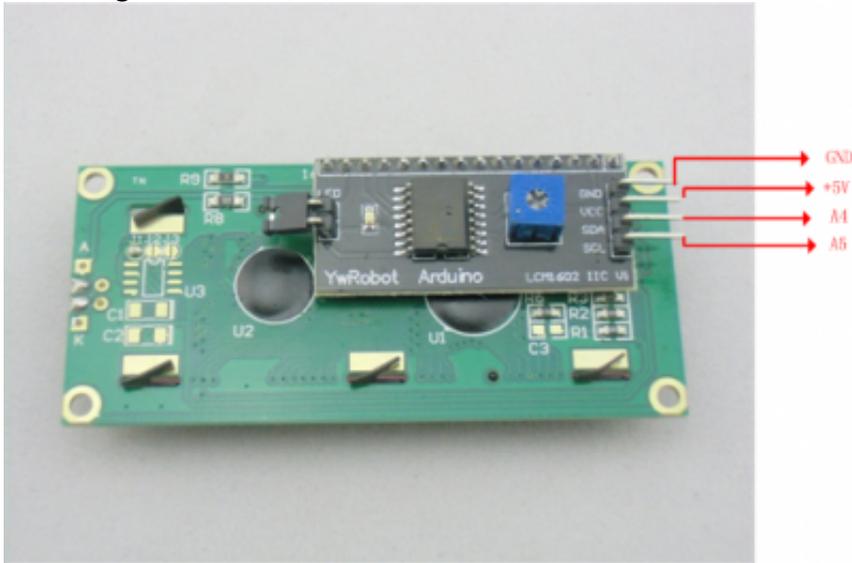
- LCD Display Mode: STN, Positive, Transflective
- Display Color: Blue
- Driving Method : 1/16 duty, 1/5 bias
- Control Method: I2C
- Viewing Angle: 6H

## Application

- Electronic equipment

## Interface

Connect the I2C LCD1602 to the I2C port of Arduino(SDA<->A4 and SCL<->A5) and power this module with 5V voltage as belows:



## Usage

### "Hellow world" with this module

Download the "Hello World" demo to your Arduino board.

### Display the customer chars

You can also make the LCD to display your own chars or logos as you like, you need to constrat your own chars in your program, as the method in the "CustomChars" demo. also, it would be easy for you to make the LCD display what you input with the serial port, just as the "SerialDisplay" demo, you can sent what you want to display with the serial monitor in the Arduino IDE, please note that you should set the baudrate to 9600. for me, i want the

I2C LCD 1602 to show "good day".



## Backlight control and Contrast control

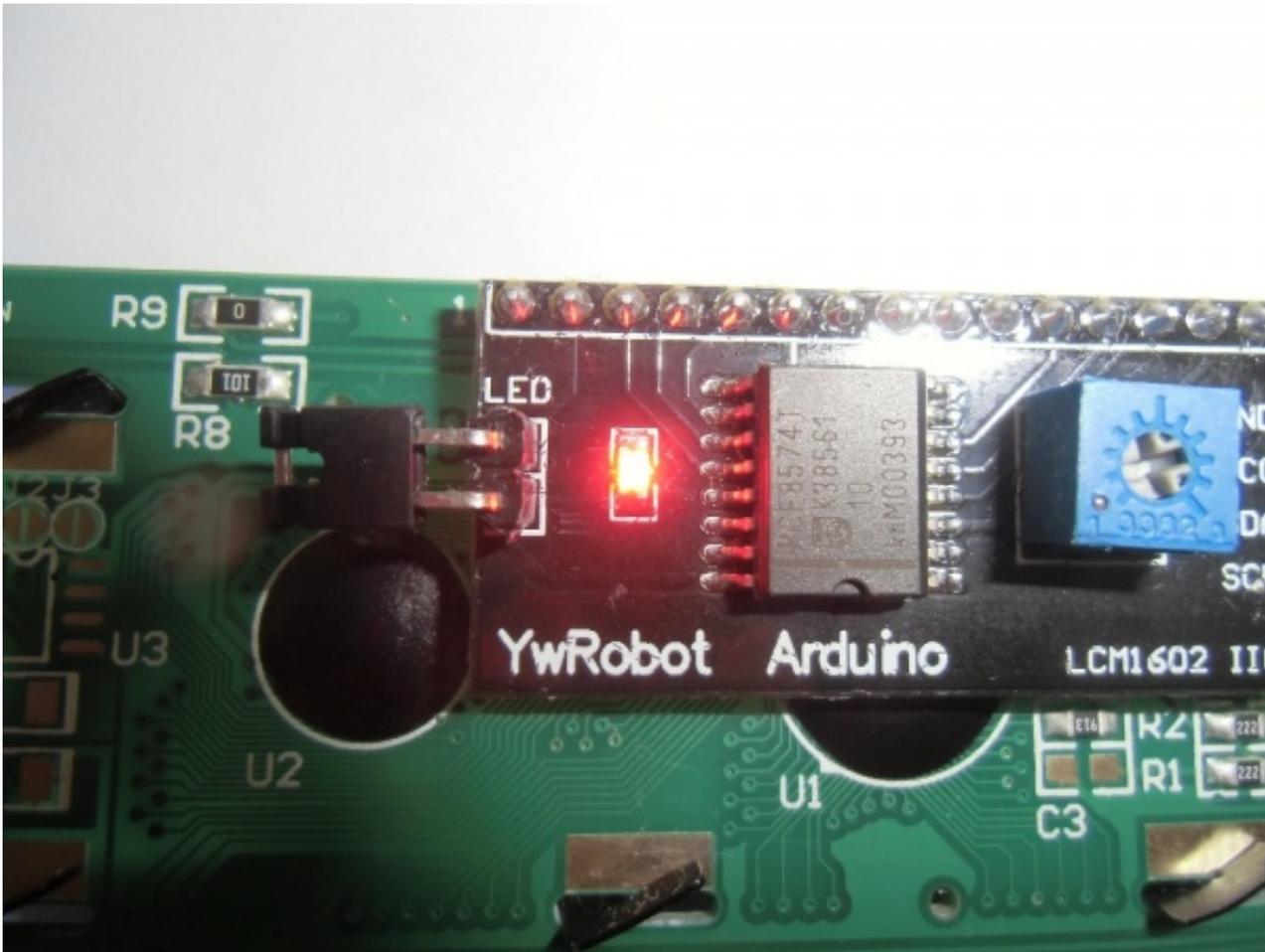
The Backlight can be controlled by the firmware or the on-board jumper:

### Firmware:

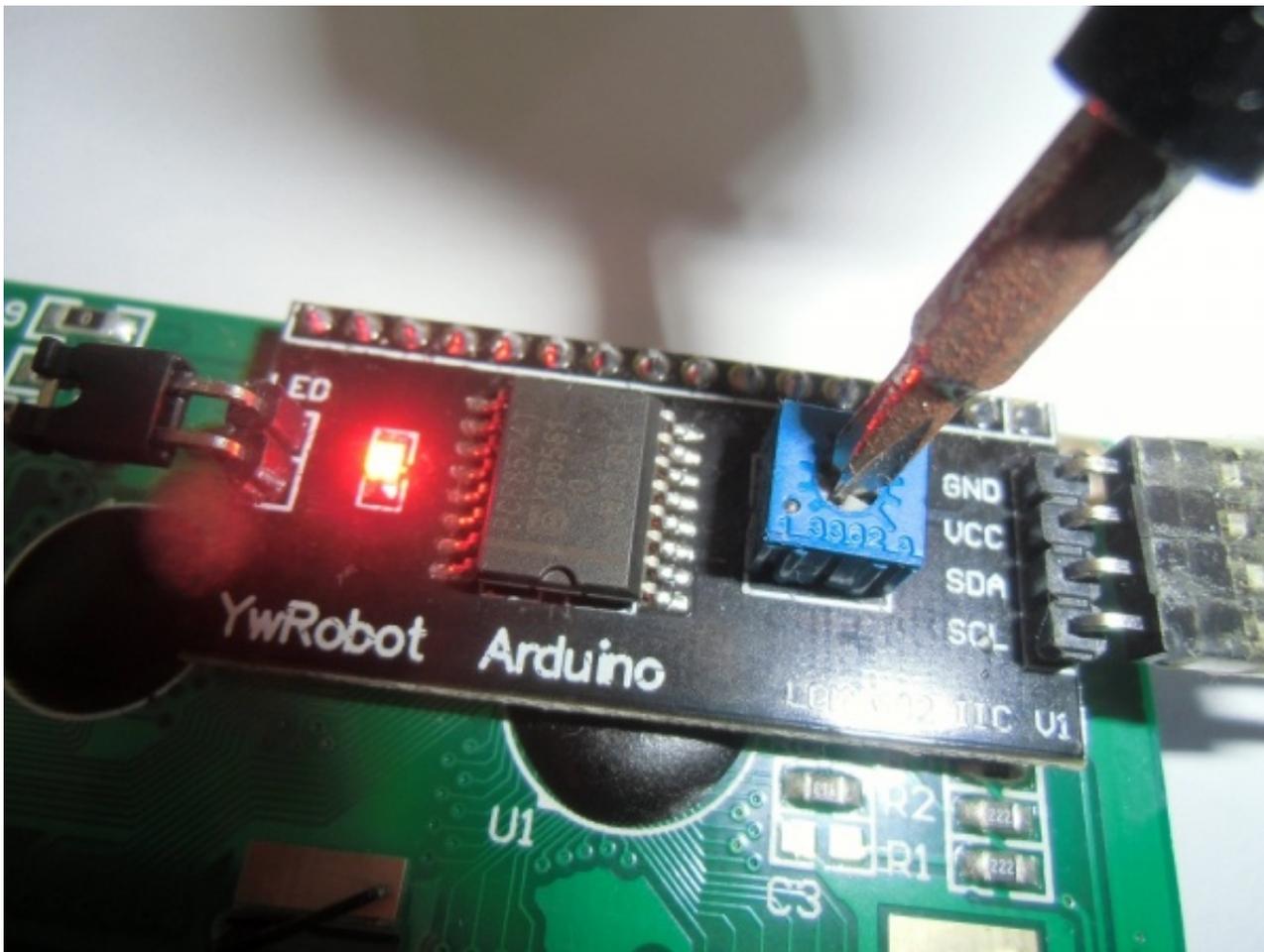
```
lcd.backlight();// light on the backlight;  
lcd.noBacklight();//light off the backligh;
```

### Hardware:

There is a jumper on the board, if you take away this jumper , the backlight will always be off



You can control the LCD contrast by adjust the on-board potentiometer :



For the usage of other functions, please refer to the "LiquidCrystal\_I2C.h" in the sourcecode of **I2C LCD library** ([http://www.elecrow.com/wiki/images/0/05/I2C\\_LCD\\_Library.zip](http://www.elecrow.com/wiki/images/0/05/I2C_LCD_Library.zip)) .

## Resource

File:I2C LCD Library.zip

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- This page was last modified on 20 October 2013, at 19:08.
  - This page has been accessed 870 times.