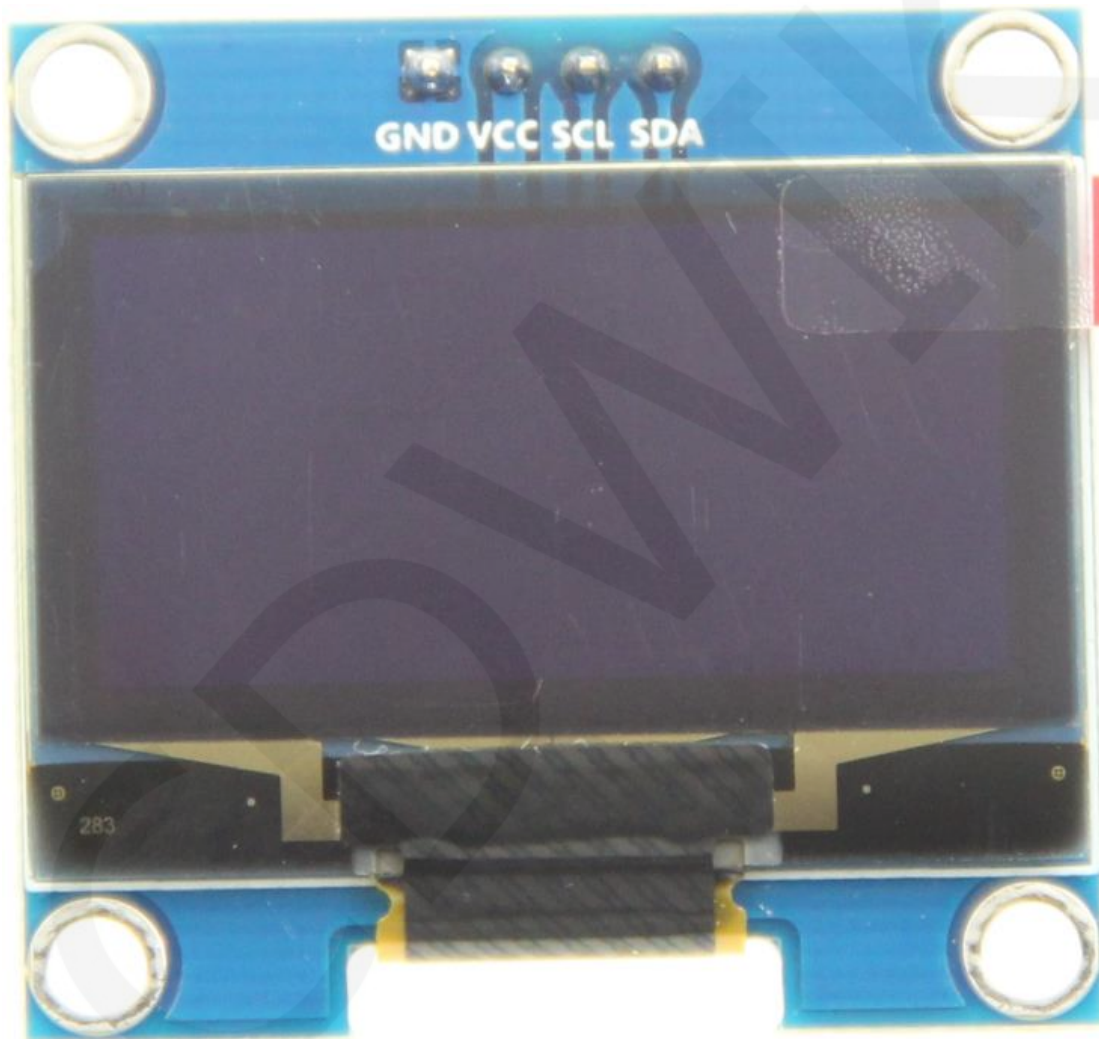## Test platform introduction:
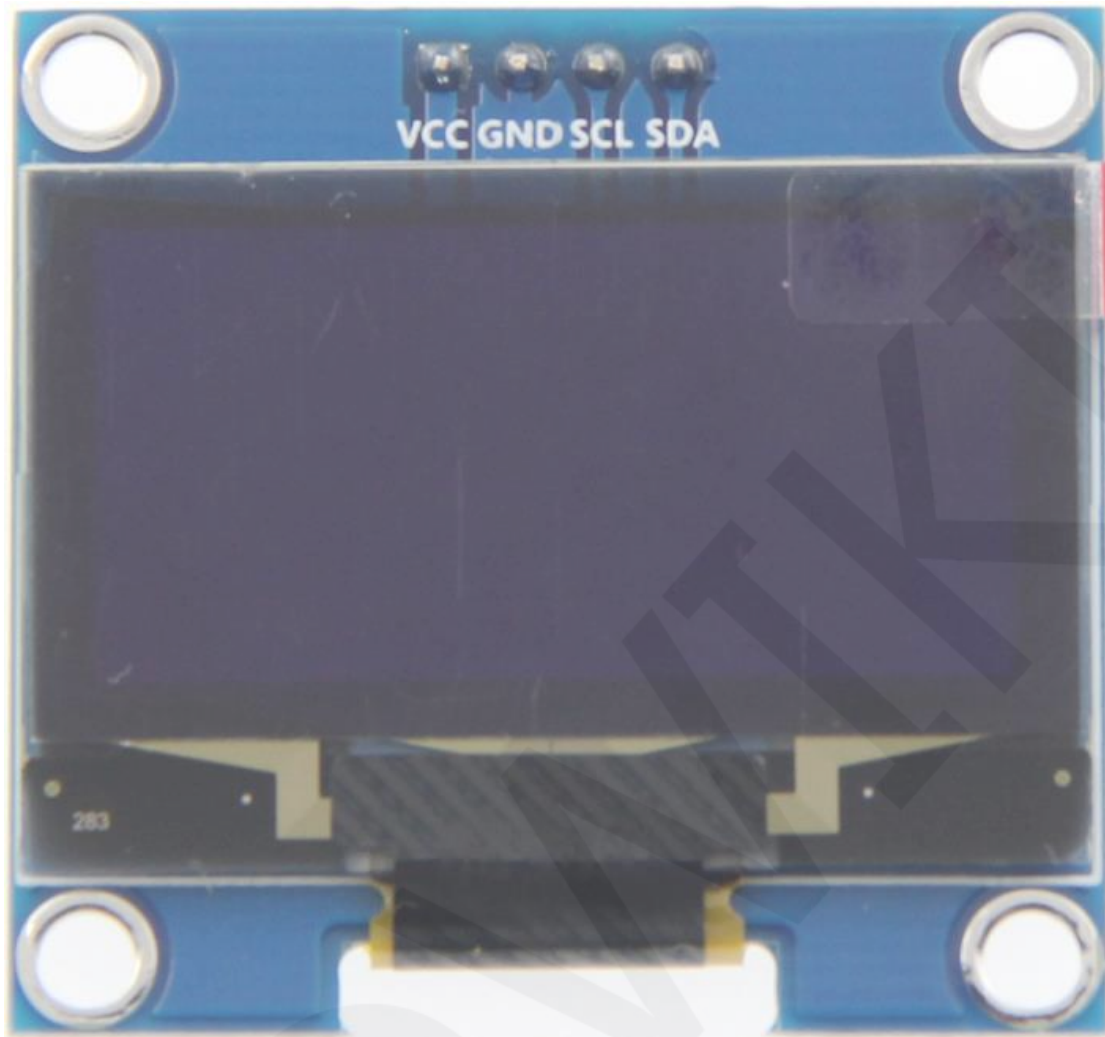
Development board: Arduino UNO/MEGA2560

MCU：AVR_ATmega328P/AVR_ATmega2560(corresponding to the development

board in order)
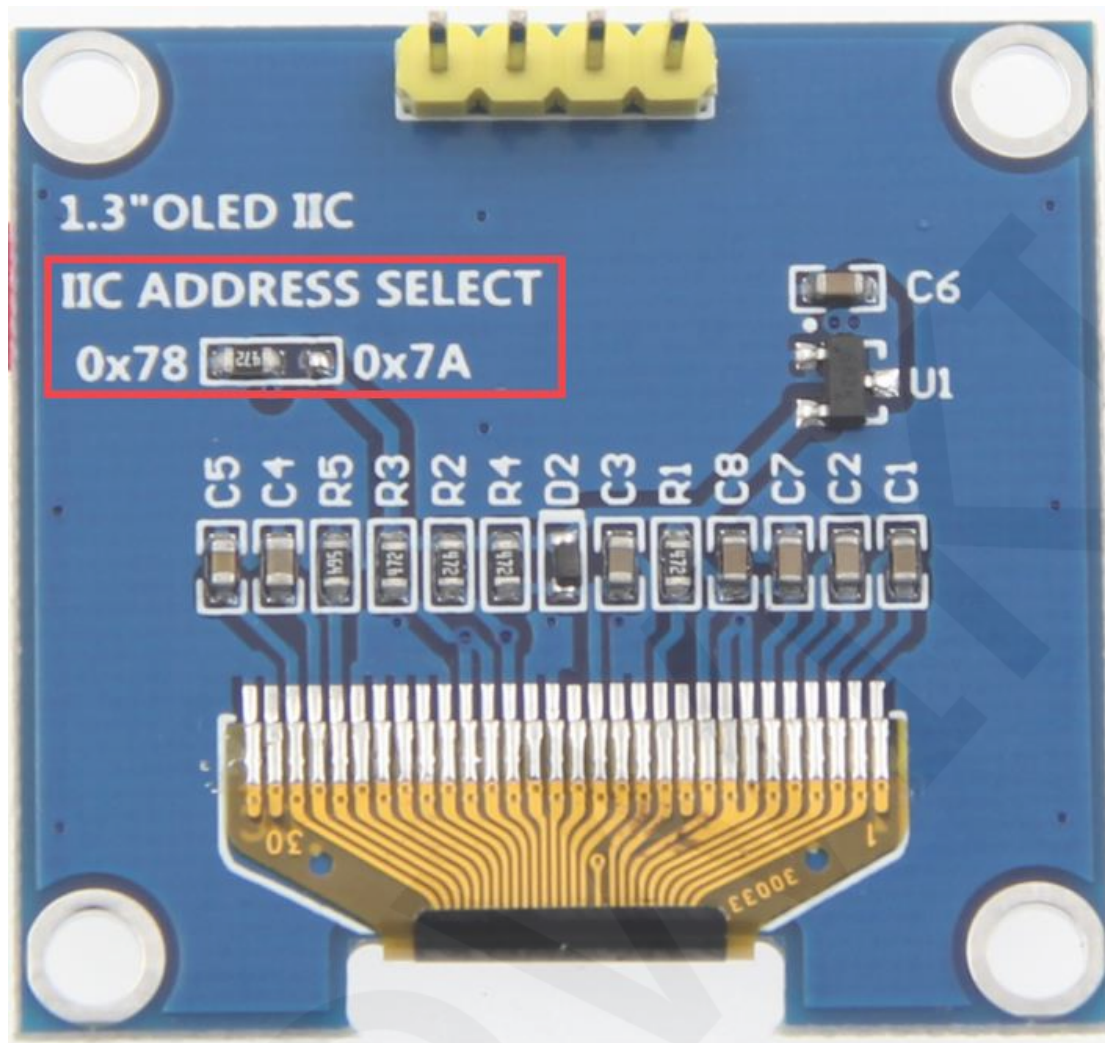
Wiring instructions:

Picture 1. Module pin silk screen (1 pin is GND)

Picture 2. Module pin silk screen (1 pin is VCC)

Picture 3. Rear view of the module

NOTE:

1. **This module supports IIC slave device address switching (shown in red box in Picture 3), as follows:**

   A. **Solder the 0x78 side resistance, disconnect the 0x7A side, then select the 0x78 slave address (default);**

   B. **Solder the 0x7A side resistance, disconnect the 0x78 side, then select the 0x7A slave address;**

2. **The hardware switches the IIC from the set address, and the software also needs to be modified accordingly. For the specific modification method, see the following IIC slave device address modification instructions.**

Arduino UNO microcontroller test program wiring instructions

Number	Module Pin	Corresponding to UNO development board wiring pins	Remarks
1	GND	GND	OLED power ground
2	VCC	5V/3.3V	OLED power positive (3.3V~5V)
3	SCL	A5	OLED IIC bus clock signal
4	SDA	A4	OLED IIC bus data signal

Arduino MEGA2560 microcontroller test program wiring instructions

Number	Module Pin	Corresponding to MEGA2560 development board wiring pins	Remarks
1	GND	GND	OLED power ground
2	VCC	5V/3.3V	OLED power positive (3.3V~5V)
3	SCL	21	OLED IIC bus clock signal
4	SDA	20	OLED IIC bus data signal

Demo function description:

1. This set of test program procedures is applicable to UNO and Mega2560 platforms;

2. This set of test programs uses the platform hardware IIC bus to transfer data;

3. Please select the corresponding test program and development board to follow the above wiring instructions for wiring;

4. The version of the Arduino IDE used in this test program is 1.8.5. Please use the same or higher version for testing.

5. This set of test programs depends on the U8glib library. Before compiling, you need to copy the U8glib library in the Install libraries directory of the test package to the

libraries folder of the Arduino project directory (the default Arduino project directory is

C:\Users\Administrator\ Documents\Arduino\libraries);

6. This set of test procedures contains the following test items:

A. Example01-graph_test is a graphical display test that displays graphics, lines,

etc;

B. Example02-string_test is a text display test showing different sizes of Chinese

and English and text rotation;

C. Example03-show_BMP is a picture display test showing monochrome BMP

pictures and menu interface;

IIC slave device address modification instructions:

1. Open the u8g_com_arduino_ssd_i2c.c file in the utility directory of the U8glib library

to find the following:

```
#define I2C_SLA     (0x3c*2)
//#define I2C CMD MODE  0x080
```

2. Modify the I2C_SLA macro definition (default is 0x3c*2):

For example, change to 0x3d*2, then the IIC slave address is 0x3d*2;