

OLED display characters

1. Learning target

1.1 In this course, we will learn how to use pins of the Raspberry Pi Pico board.

1.2 How to use drive OLED to characters.

2. Preparation

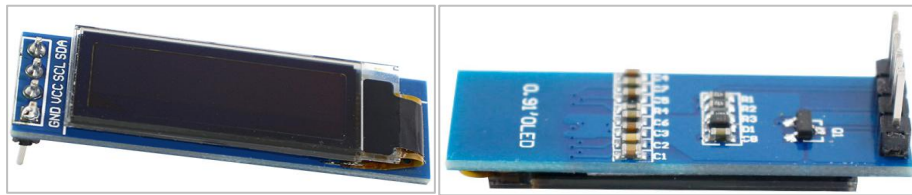
Raspberry Pi Pico board *1

Pico sensor expansion board *1

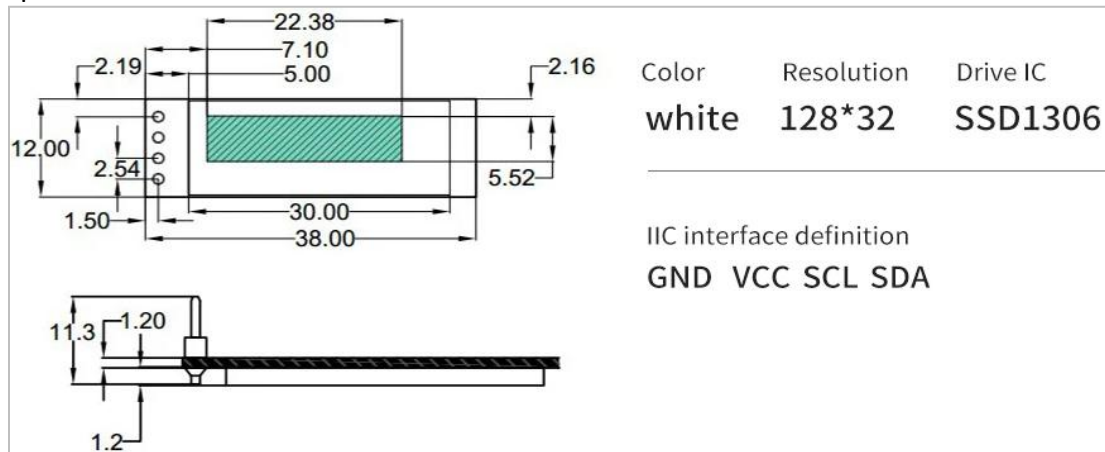
PC *1

USB data cable *1

OLED module (SSD1306 chip and IIC communication) *1

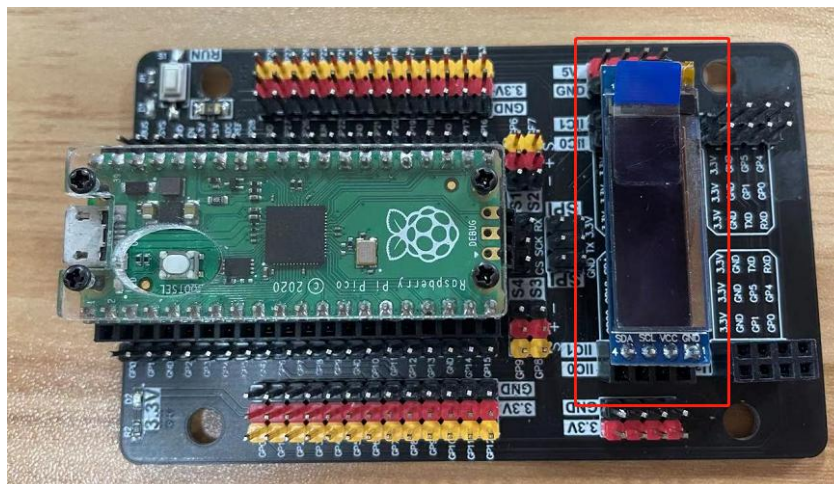


Module parameters:



3. About wiring

Insert OLED module into Pico sensor expansion board, as shown below.



4. About code

Thonny programming

About how to using ThonnyIDE, please check the tutorials in 【2.Development environment】

```
from machine import Pin, I2C
i2c=I2C(0, scl=Pin(21), sda=Pin(20), freq=100000)
# i2c=I2C(1, scl=Pin(19),sda=Pin(18), freq=100000)

from ssd1306 import SSD1306_I2C
oled = SSD1306_I2C(128, 32, i2c)


oled.text('Hello Yahboom!', 0, 12)
oled.show()
```

Before running this program, you need to load ssd1306, please check the specific steps in

【2.Development environment】

5. Phenomenon

Click the green run button  of Thonny IDE to start running the program. Click the red stop

button  to stop the program. When the program is running, OLED will display “Hello Yahboom!”.