2-1、RGB LEDs

1. 参考《0-1》文档，插入ESP32模块。
2. 用导线连接IO口与LED控制口，如下图所示：

红色线<------->R LED

绿色线<------->G LED

蓝色线<------->B LED



1. 代码示例

#main.py

from machine import RTC,Pin,Timer

import time

# create output pin

R\_LED = 27

G\_LED = 26

B\_LED = 25

led\_R = Pin(R\_LED, Pin.OUT)

led\_G = Pin(G\_LED, Pin.OUT)

led\_B = Pin(B\_LED, Pin.OUT)

def do\_led\_blink():

# enable internal pull-up resistor

led\_R = Pin(R\_LED, Pin.OUT, Pin.PULL\_UP)

# set pin high on creation

led\_R = Pin(R\_LED, Pin.OUT, value=1)

# set maximum drive strength

led\_R = Pin(R\_LED, Pin.OUT, drive=Pin.DRIVE\_3)

led\_G = Pin(G\_LED, Pin.OUT, Pin.PULL\_UP)

led\_G = Pin(G\_LED, Pin.OUT, value=1)

led\_G = Pin(G\_LED, Pin.OUT, drive=Pin.DRIVE\_3)

led\_B = Pin(B\_LED, Pin.OUT, Pin.PULL\_UP)

led\_B = Pin(B\_LED, Pin.OUT, value=1)

led\_B = Pin(B\_LED, Pin.OUT, drive=Pin.DRIVE\_3)

def do\_led\_off():

led\_R.value(0)

led\_G.value(0)

led\_B.value(0)

print("do\_led\_off")

def do\_led\_on():

led\_R.value(1)

led\_G.value(1)

led\_B.value(1)

print("do\_led\_on")

while True:

do\_led\_on()

time.sleep\_ms(1000)

do\_led\_off()

time.sleep\_ms(1000)

1. 上传main.py到模块中，按F5或点击运行按钮，就可以看见红、绿、蓝3个颜色的LED每隔1秒闪烁。



