

## Chapter7 RGB

### 1.About RGB module:

3 LEDs (red, green, blue) are packaged in the RGB lamp module.

We can mix different colors(256\*256\*256) by controlling the brightness of the three LEDs.

### 2.Schematic diagram

The position of the buzzer on the expansion board, as shown in the figure 1-1 below.

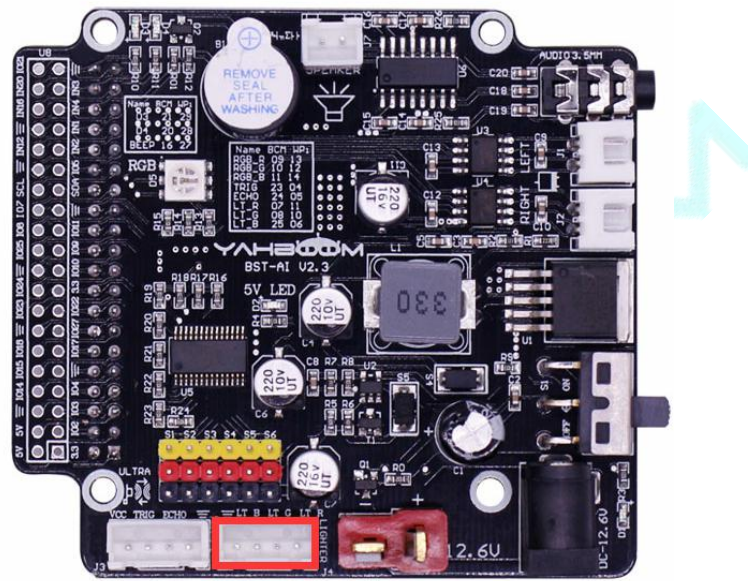
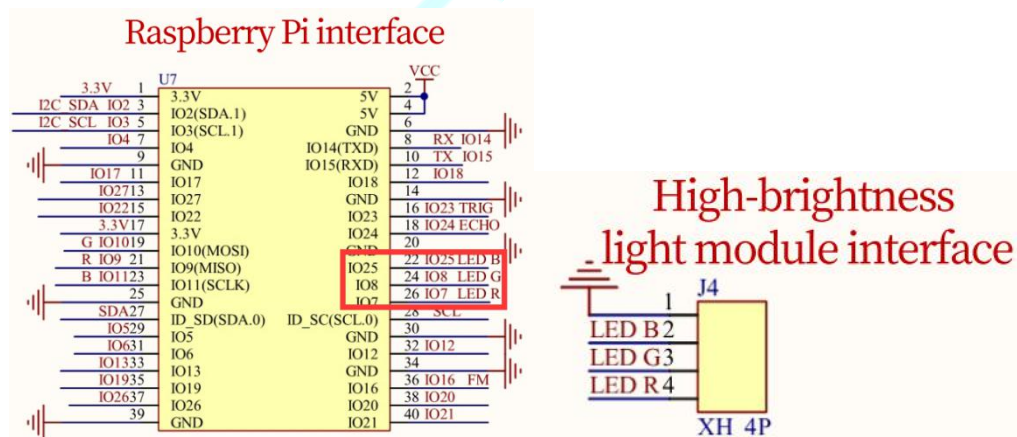


Figure 1-1



According to the schematic diagram, the pins connected to the RGB module are pin22, pin24, pin26 of the Raspberry Pi physical pins, that is, corresponding to the GPIO25,GPIO8, GPIO7.

### 3.About code

```
1  #!/usr/bin/env python2
2  # -*- coding: utf-8 -*-
3  """
4  Created on Thu Jan 10 01:16:58 2019
5
6  @author: pi
7  """
8
9  import RPi.GPIO as GPIO
10 import time
11
12 blight =25
13 glight =8
14 rlight =7
15
16 GPIO.setmode(GPIO.BCM)
17
18 GPIO.setup(rlight,GPIO.OUT)
19 GPIO.setup(glight,GPIO.OUT)
20 GPIO.setup(blight,GPIO.OUT)
21
22
23 while True:
24     GPIO.output(rlight,True)
25     time.sleep(1)
26     GPIO.output(rlight,False)
27     GPIO.output(blight,True)
28     time.sleep(1)
29     GPIO.output(blight,False)
30     GPIO.output(glight,True)
31     time.sleep(1)
32     GPIO.output(glight,False)
```