

# **Lesson 4 Buzzer Control**

## 1. Preparation

There is a buzzer on the Raspberry Pi expansion board, as shown in the figure below:



### 2. Working Principle

Raspberry Pi expansion board uses active buzzer. Control the buzzer to make sound through setting high and low level.

The source code of program is located in /home/pi/TonyPi/HiwonderSDK/BuzzerControlDemo.py

1

# Hiwonder Technology Co,Ltd

```
25
     Board.setBuzzer(0) # Close
26
     Board.setBuzzer(1) # Open
27
28
     time.sleep(0.1) # Delay
     Board.setBuzzer(0) # Close
29
30
     time.sleep(1) # Delay
31
32
     Board.setBuzzer(1)
33
     time.sleep(0.5)
34
     Board.setBuzzer(0)
35
```

Buzzer is mainly controlled by setBuzzer() function in Board library. The parameter in parentheses represents the level status. "1" represents high level and "0" represents low level.

### 3. Operation Steps

1) Click the icon shown below to enter the LX terminal command line.



2) Enter the command "cd TonyPi/Example/" in the interface and press "Enter" to switch to the directory where the routine is located.

```
pi@raspberrypi:~ $ cd TonyPi/Example/
pi@raspberrypi:~/TonyPi/Example $ ■
```

3) Input command "sudo python3 BuzzerControlDemo.py" and press "Enter" to control the buzzer.

4) Press "Ctrl+C" can close the program.

## 4. Project outcome

Starting the program, the buzzer on the expansion board will beep with a short beep firstly, and then end with a long beep.