smraza

Passive buzzer

Overview

This lesson will teach you how to use Passive buzzer, which is simple and easy to use.

Specification

Working Voltage: 3V/5V
Resistance: 16Ohm
Resonance Frequency: 2KHZ
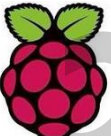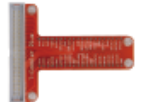
Pin definition
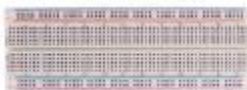
Passive Buzzer		RPI
Long pin/+	->	GPIO17
Short pin	->	GND

Hardware required

Material diagram	Material name	Number
	Passive buzzer	1
	Raspberry Pi Board	1
	T-Cobbler Plus	1
	40P GPIO Cable	1
	Breadboard	1
	Jumper wires	Several

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Connection diagram
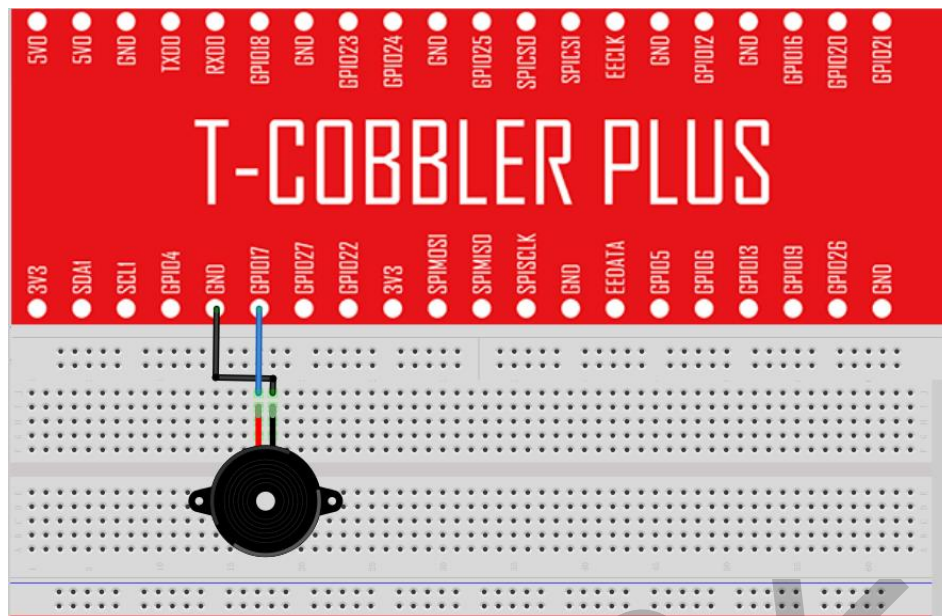
Connection

Passive Buzzer   RPI

Long pin/+   ->   GPIO17

Short pin   ->   GND

Sample code

Note: sample code under the **Sample code** folder

```
#include <wiringPi.h>
#include <stdio.h>
#define buzzer 0
int main(void)
{
    printf( "Welcome to Smraza\n");
    printf( "Raspberry Pi Passive_buzzer test program\n" );
    printf( "Press Ctrl+C to exit\n" );
    wiringPiSetup() ;
    pinMode (buzzer, OUTPUT) ;
    while(1)
    {
        for(int i=0;i<80;i++) // output a frequency sound
    {
        digitalWrite(buzzer,HIGH);// sound
        delay(1);//delay1ms
        digitalWrite(buzzer,LOW);//not sound
        delay(1);//ms delay
```

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```
  }
    for(int j=0;j<100;j++)// output a frequency sound
    {
        digitalWrite(buzzer,HIGH);// sound
        digitalWrite(buzzer,LOW);//not sound
        delay(2);//2ms delay
    }
  }
}
```

Compiling: g++ -o passive_buz passive_buz.c -lwiringPi

Run: sudo ./passive_buz

Tips: Press "Ctrl+C" to exit

Application effect

When you are running program, the buzzer will be ringing.