Relay module experiment

Overview

This lesson will teach you how to use Relay module, which is simple and easy to use.

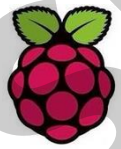
Specification

Null

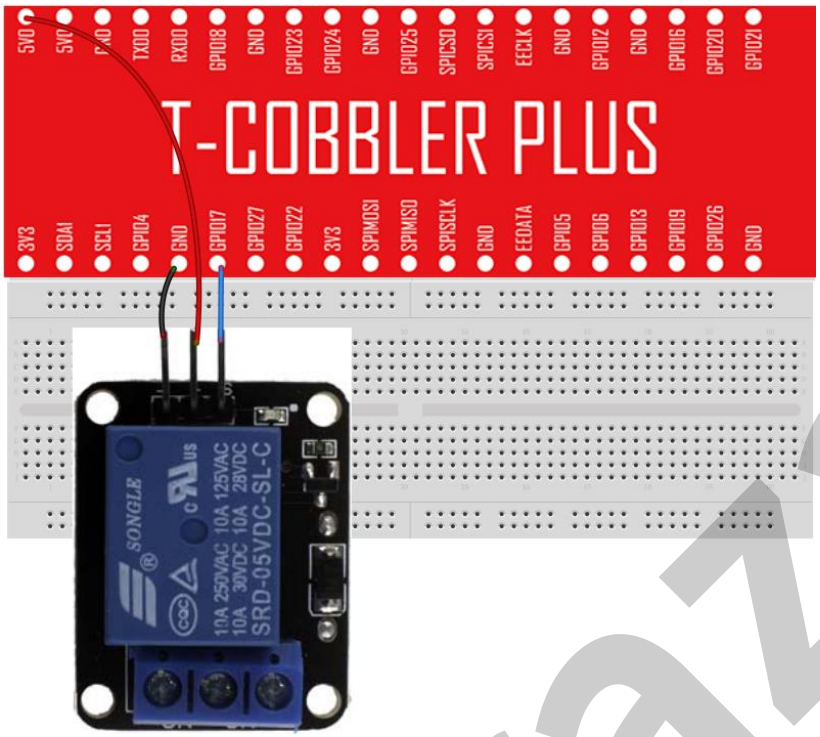
Pin definition

RPI	Relay Module
GPIO17	IN
GND	GND
5V0	VCC

Hardware required

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

Connection diagram



Connection

RPI	Relay Module
GPIO17	IN
GND	GND
5V0	VCC

Sample code

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

```
#include <wiringPi.h>
#include <stdio.h>
#define relay 0
char key;
int main(void)
{
   printf( "Welcome to Smraza\n");
   printf( "Raspberry relay_test program\n" );
   printf( "Press Ctrl+C to exit\n" );
   wiringPiSetup();
   pinMode (relay, OUTPUT) ;
   while(1)
   {
      printf( "Input 0 1 \n");
      key=getchar();
      if(key=='1')
```

```
        {
                digitalWrite(relay,HIGH);
        }
        else if(key=='0')
        {
                digitalWrite(relay,LOW);
        }
    }
}
```

Compiling: gcc -Wall -o relay relay.c -lwiringPi

Run: sudo ./relay

Tips: Press “Ctrl+C” to exit

Application effect

When you are running program, according to the screen tips control relay.