



الحمادي للإلكترونيات
ALHAMMADI FOR ELECTRONICS

have to unplug and put everything
back when you switch from a project

electronic components. You don't PIN DEFINITION

to another with the help of this kit.

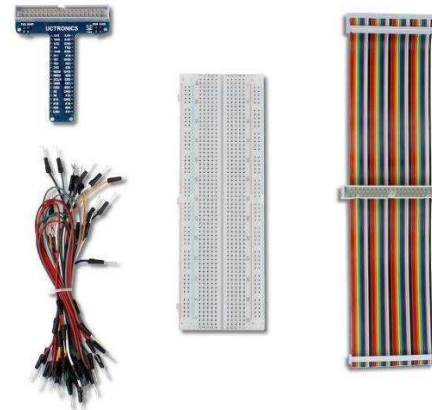
GPIO T Type

Exploring with Raspberry Pi can be
much easier.

Expansion Board

GitHub
B1-06-005-01071100
W1-06-005-01071100
B1-06-005-01071100

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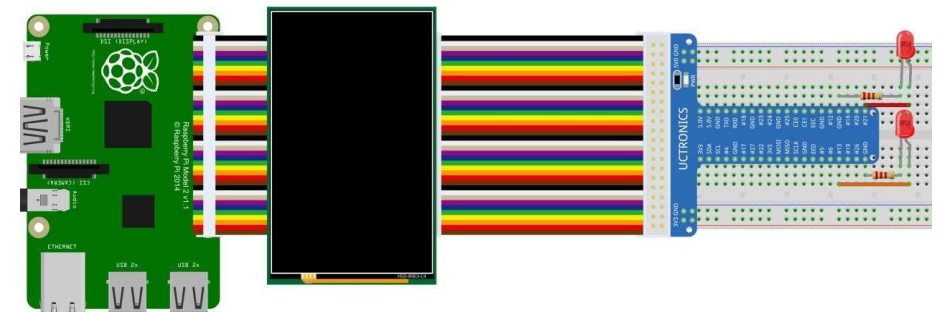
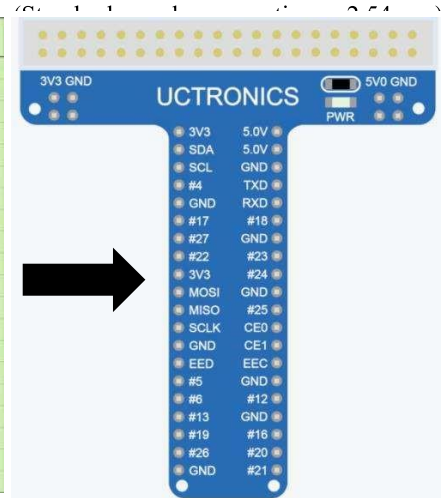
PACKING LIST

The T-type
expansion
board has been

Rev 1.0' June 2018

already
soldered, and no soldering is
required.

wiringPi	BCM	Function	Physical Pin	Function	BCM	wiringPi
		3.3V	1 2	5V		
8	2	SDA.1	3 4	5V		
9	3	SCL.1	5 6	GND		
7	4	GPIO.7	7 8	TXD	14	15
		GND	9 10	RXD	15	16
0	17	GPIO.0	11 12	GPIO.1	18	1
2	27	GPIO.2	13 14	GND		
3	22	GPIO.3	15 16	GPIO.4	23	4
		3.3V	17 18	GPIO.5	24	5
12	10	MOSI	19 20	GND		
13	9	MISO	21 22	GPIO.6	25	6
14	11	SCLK	23 24	CE0	8	10
		GND	25 26	CE1	7	11
30	0	SDA.0	27 28	SCL.0	1	31
21	5	GPIO.21	29 30	GND		
22	6	GPIO.22	31 32	GPIO.26	12	26
23	13	GPIO.23	33 34	GND		
24	19	GPIO.24	35 36	GPIO.27	16	27
25	26	GPIO.25	37 38	GPIO.28	20	28
		GND	39 40	GPIO.29	21	29



HARDWARE CONNECTION

connections out of the board, and supply power to a 3.5-inch Raspberry

Pi screen and other components at

» 1 x T-type Expansion Board

» 1 x 830 points Tie Solderless Breadboard

The T type expansion and the

breadboard make it easier for wiring

» 1 x 40 pin IDE Male-Female-Male

Extension Cable

in your Raspberry projects and

» 65 x Jump Wires

connect all kinds of sensors and

QUICK TESTING

Enter the following command in the terminal:

```
sudo nano ledTest.py
```

Enter the following codes, or use

```
sudo wget  
https://github.com/UCTRONIC  
S/Arducam_Starter_Kit_Pytho  
n_Code_
```

[for_RPi/blob/master/ledTest.py](#)

```
import RPi.GPIO as GPIO
import time
LedPin1 = 21 #BCM pin21
LedPin2 = 13 #BCM pin12
GPIO.setmode(GPIO.BCM) # Numbers pins by physical location
GPIO.setup(LedPin1, GPIO.OUT) # Set pin mode as output
GPIO.setup(LedPin2, GPIO.OUT)
GPIO.output(LedPin1, GPIO.HIGH) # Set pin to high(+3.3V) to off the led
GPIO.output(LedPin2, GPIO.HIGH)
try:
    while True:
        print '...led on'
        GPIO.output(LedPin1, GPIO.LOW) # led on
        GPIO.output(LedPin2, GPIO.LOW)
        time.sleep(0.5)
        print 'led off...'
        GPIO.output(LedPin1, GPIO.HIGH) # led off
        GPIO.output(LedPin2, GPIO.HIGH)
        time.sleep(0.5)
except KeyboardInterrupt: # When 'Ctrl+C' is pressed, the flowing code will be executed.
    GPIO.output(LedPin1, GPIO.HIGH) # led off
    GPIO.output(LedPin2, GPIO.HIGH)
    GPIO.cleanup() # Release resource
```

Finally, enter the following command at the terminal:

`sudo python ledTest.py`

Then you will see the LED is blinking.

```
pi@raspberrypi:~$ sudo python ledTest.py
...led on
led off...
...led on
led off...
...led on
led off...
...led on
```

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