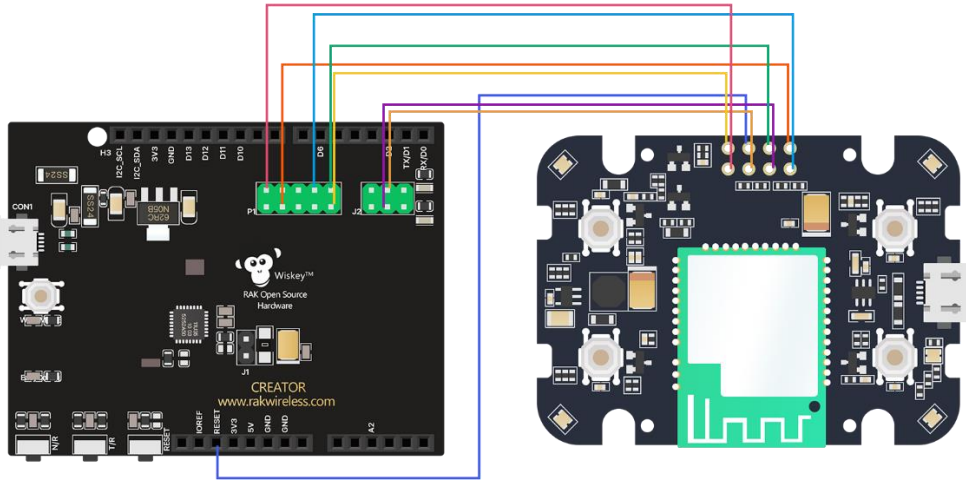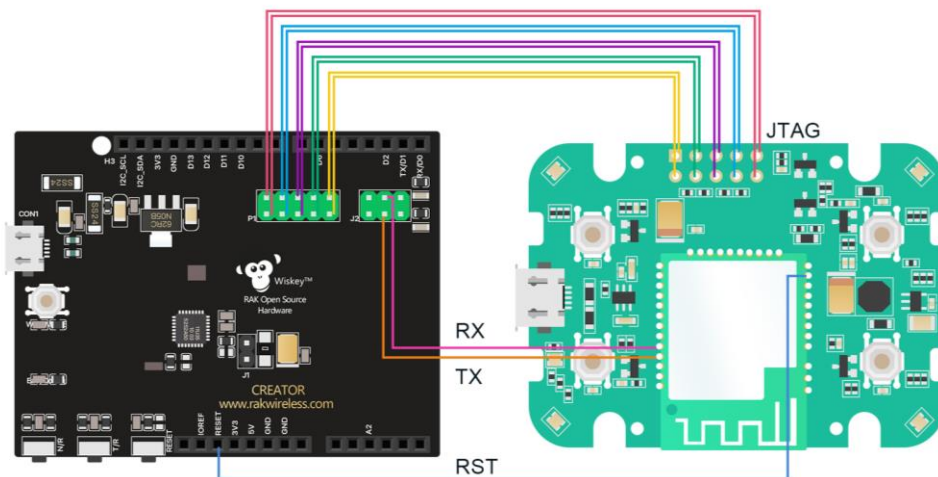# 1. Power with Creator Pro

DashButton_V12

DashButton_V1.1

When power on, the dashButton connect to wifi, and will print like below:

```
【2017-09-22 18:30:56:920】Connected to wifi
SSID: RAK_2.4GHz_1
IP Address: 192.168.70.146
signal strength (RSSI):-45 dBm


【2017-09-22 18:30:57:995】key1
【2017-09-22 18:30:58:280】


Connect to Server successful!


/press.php/?id=1
```

1

startedRequest ok

【2017-09-22 18:30:59:331】Got status code: 200

【2017-09-22 18:30:59:987】key1
【2017-09-22 18:31:00:431】

Connect to Server successful!

/press.php/?id=1
startedRequest ok

【2017-09-22 18:31:01:481】Got status code: 200

【2017-09-22 18:31:02:137】key1
【2017-09-22 18:31:02:358】

Connect to Server successful!

/press.php/?id=1
startedRequest ok

【2017-09-22 18:31:03:410】Got status code: 200

It will always detect the key1 is pushed down, this is because dashButton will detect the battery level, if not plug with battery or battery level is low, the dashButton will not initialize D21-D25(jtag pin) as digital pin, so key1 and led1_g, led1_r, led4_g, led4_r will not work normal.

we design this because if always intialize D21-D25 as digital pin, then it will fail to program the dashButton using creator pro any more.

CREATOR-Arduino-SDK/hardware/libraries/Http/examples/**DashButtenSampleCode**/DashButtenSampleCode.ino

```
74    #if 1
75    /*
76     *    Pin D21-D25 can not be used as digital IO ,when in debug mode(Enable JTAG).
77     *    D21-D25 can be used as digital IO when in factory mode.(Disable JTAG)
78    */
79        //D21-D25
80        pinMode(led4_g, OUTPUT);
81        pinMode(led4_r, OUTPUT);
82        pinMode(led1_g, OUTPUT);
83        pinMode(led1_r, OUTPUT);
84        pinMode(key1, INPUT_PULLUP);
85    #endif
```

CREATOR-Arduino-SDK/hardware/cores/arduino/**wiring_digital.c**

```
90          //add for dashbutten
91      if( g_APinDescription[ulPin].pinname==PE_0 ||
92        g_APinDescription[ulPin].pinname==PE_1 ||
93        g_APinDescription[ulPin].pinname==PE_2 ||
94        g_APinDescription[ulPin].pinname==PE_3 ||
95        g_APinDescription[ulPin].pinname==PE_4    )
96      {
97          /* if A2 < 800, then do not disable jtag */
98          int battery=0, i=0;
99              for (i = 0; i < 10; i++) {
100                     battery = analogRead(A2);
101                     delay(10);
102             }
103             if (battery < 800) { //low battery level
104             } else {
105             sys_jtag_off();
106             }
107      }
108
```

2. Power with battery

1. Long press any one of the four key down, until the four leds light up white color.

2. Wait some time until the four leds turn red, it means dashButton connect to network successfully.
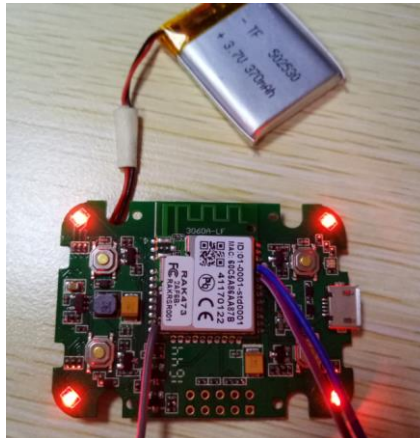
3. Then if you push one key down, the corresponding led will light blue, it means dashButton is communicate with cloud server.