





Power switch is used for power control and Voltmeter\_Switch is used for the voltage (3.3V, 5V) of Easy Plug.

**Although the sensors and modules purchased from other companies comes with RJ11 6P6C port , they may not compatible with ours.**

**Parameter:**

Power: DC 6-10V

Output current: 1.5A

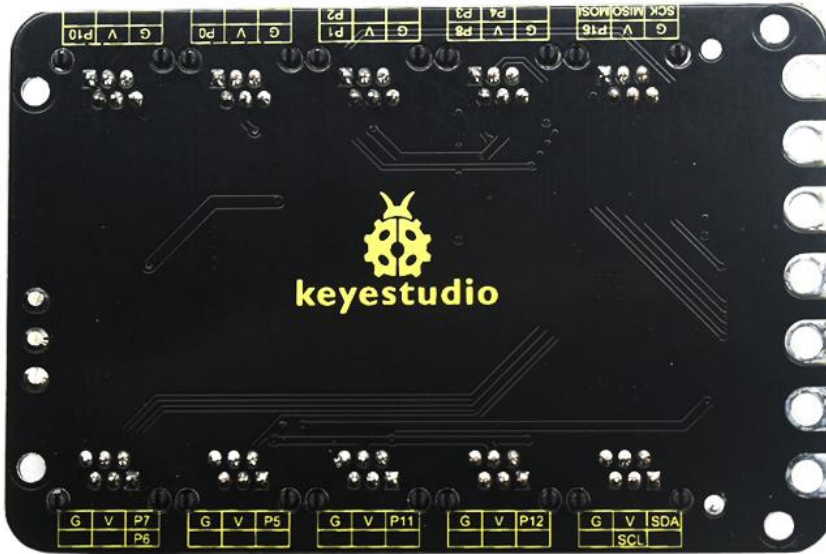
Interface: RJ11 6P6C interface and golden finger interface

Size: 98 \* 65 \* 17mm

**EASY plug Description**

EASY plug and RJ11 6P6C interface are practically the 6pin ports , according to the IO port led out by the silk screen on the back.

As shown below:



## Interfaces

G: GND

V: controlled by Voltmeter\_Switch; dial to 5V end, V is 5V, dial to 3V end, V is 3.3V.

## I2C Communication Interface

G	V	SDA
	SCL	

SDA: P20

SCL: P19



## SPI Communication Interface

G	V	P16
SCK	MISO	MOSI

MOSI: P15

MISO: P14

SCK: P13

## Experiment

The 4 WS2812 LEDs on the shield display various colors by external power

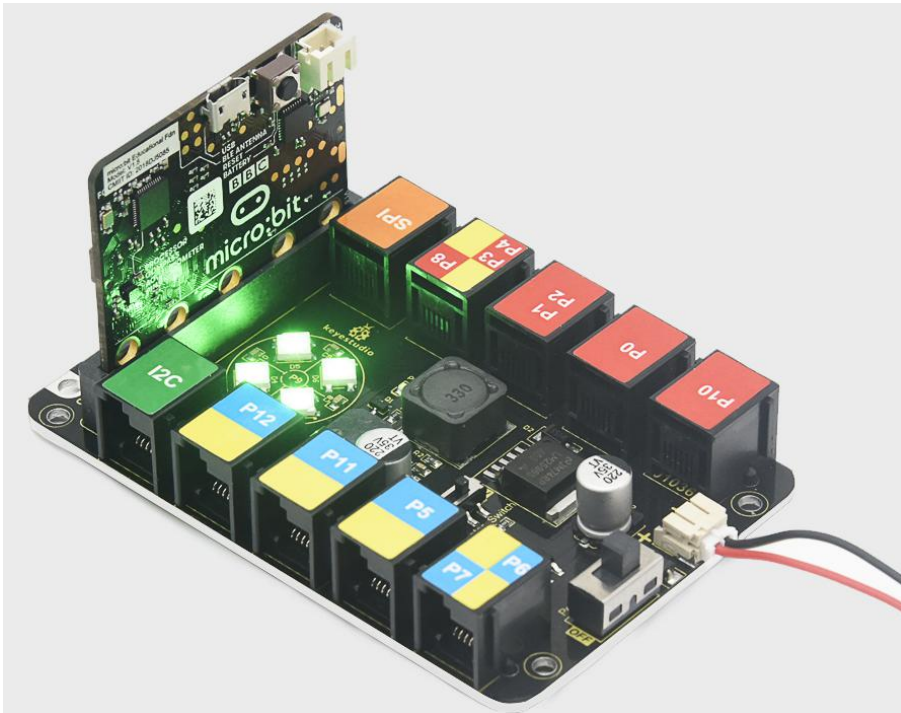
## Test Code

```
on start
  led enable false
  set strip to NeoPixel at pin P9 with 4 leds as RGB (GRB format)
  strip clear

forever
  strip show color red
  pause (ms) 500
  strip show color green
  pause (ms) 500
  strip show color blue
  pause (ms) 500
```



## Test Result



When the code is uploaded and plug it in power, the 4 WS2812 LEDs will flash three colors: red, green, and blue.

Attached to a collision module through Easy plug, LED can be restrained by a collision module.

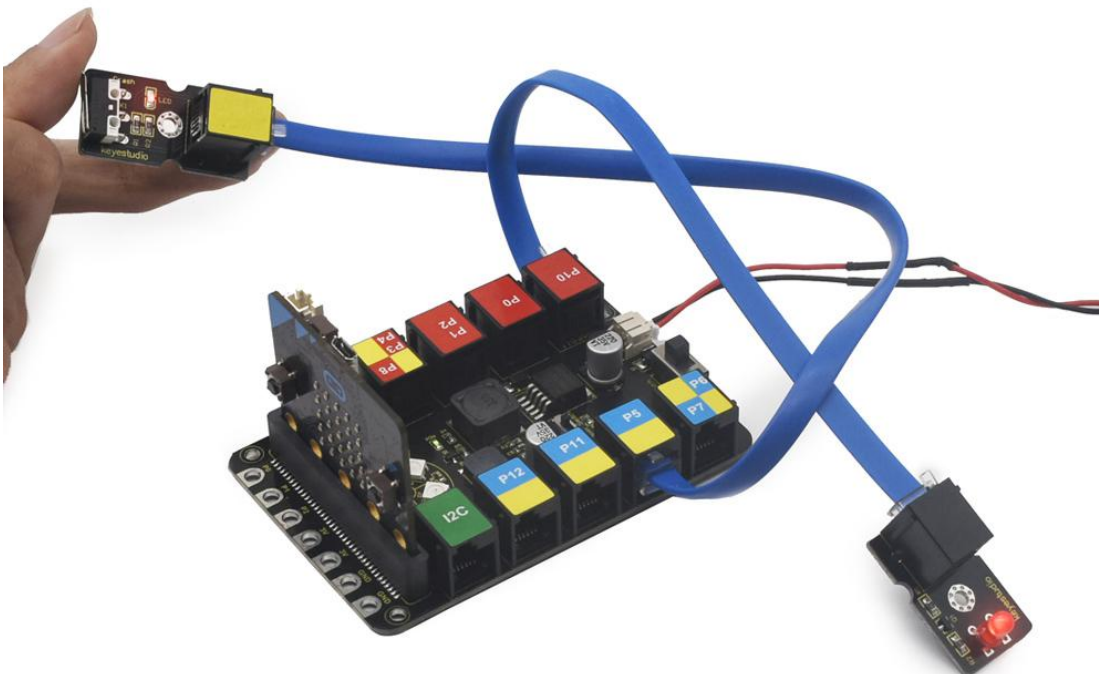
## Test Code



```
on start
  led enable false

forever
  if digital read pin P5 = 1 then
    digital write pin P10 to 0
  else
    digital write pin P10 to 1
```

### Test Result



When the shrapnel on the collision module is pressed, the LED will be on.



Otherwise, the LED will be off.

Resource:

<https://fs.keyestudio.com/KS0496>