# Joystick module


## 1.Introduction

This joystick module maybe the best choice for your controller of DIY project. It has two analog input pins to control X, Y axis and also has button input, someone may call it Z axis, but it only input digital signal with 0 or 1.

## Specifications:

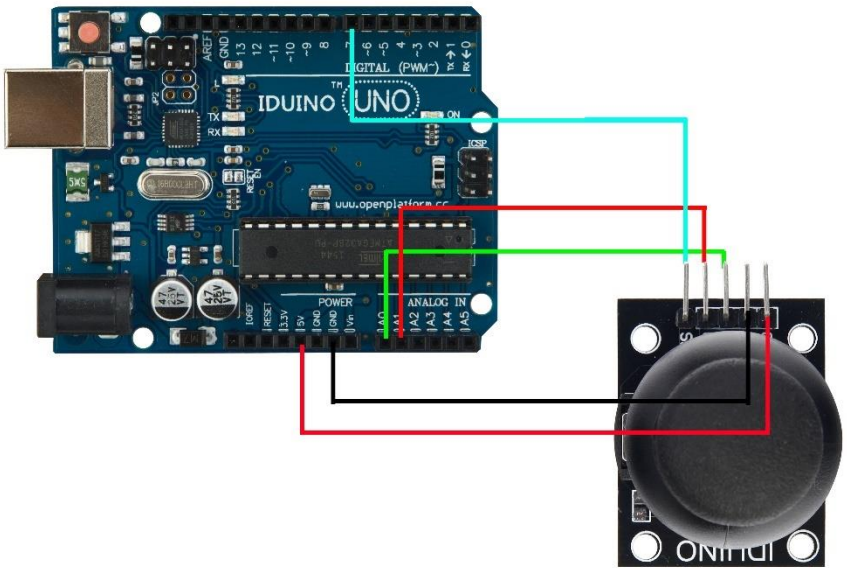
- Two analog pin(X, Y axis), one digital pin(button).
- Input voltage: 5V
- Output voltage: 2.5V
- Size: 37*25*32mm
- Weight: 15g

## 2.PinOut

| Pin | Description |
|---|---|
| **Gnd** | Ground |
| **+5v** | Power |
| **VRX** | X axis analog signal input |
| **VRY** | Y axis analog signal input |
| **SW** | Button key, value is 0 or 1 |

## 3.Example

Here is a example, connect the circuit as below and run the code, you will see the analog value from X, Y axis and button through the Serial Monitor.




```
*********Code begin*********
int sensorPin = 5;
int value = 0;

void setup() {
  pinMode(3, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  value = analogRead(0);
  Serial.print("X:");
  Serial.print(value, DEC);

  value = analogRead(1);
  Serial.print(" | Y:");
  Serial.print(value, DEC);

  value = digitalRead(7);
  Serial.print(" | Z: ");
  Serial.println(value, DEC);

  delay(100);
}
*********Code End*********
```