Module JOYSTICK

SKU:A007

Description

JOYSTICK is a joystick control panel compatible with the FACE kit. By pushing the joystick on the panel, you can input angle, direction and other data. Using the I2C communication protocol. It's possible to get the offset data of the joystick (X, Y coordinate) and the state of the middle button. An LED bar composed of 12 LEDs is embedded around the joystick. You can customize the luminous form of the LED light according to your needs.

JOYSTICK I2C address is 0x5E by default.

Product Features

- 4 RGB Led
- I2C communication
- Simple API for programming

Include

- 1x M5Stack JOYSTICK Module board
- 1x Joystick Bar

Specification

Resources	Parameter
Net weight	22g
Gross weight	50g
Product Size	58*54*10mm
Package Size	95*65*25mm

Related Link

# EasyLoader

download EasyLoader

1.EasyLoader is a simple and fast program burner. Every product page in EasyLoader provides a product-related case program. It can be burned to the master through simple steps, and a series of function verification can be performed.

2.After downloading the software, double-click to run the application, connect the M5 device to the computer via the data cable, select the port parameters, and click "Burn" to start burning.

3.The CP210X (USB driver) needs to be installed before the EasyLoader is burned. **Click here to view the driver installation tutorial**

PinMap

Mega328 ISP Download interface Pin foot definition
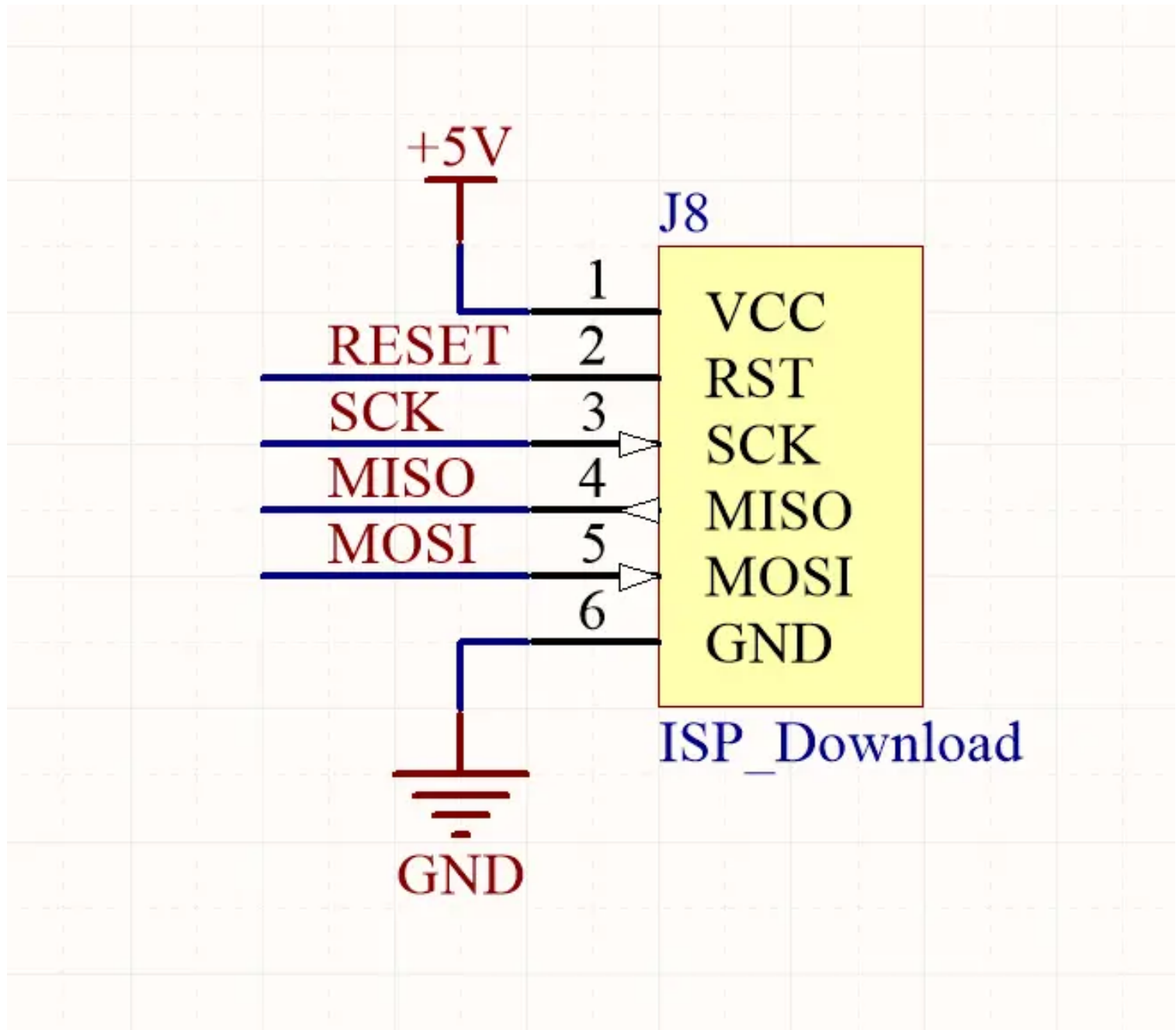
Example

1. Arduino IDE

To the complete code `faces_joystick.ino`, click here

2. UIFLOW

- **UIFlow example**

Function

Control single RGB

```
/*
    Parameter:
        indexOfLED: 0 ~ 11
        r, g, b: 0 ~ 254
*/
void Led(int indexOfLED, int r, int g, int b){
  Wire.beginTransmission(FACE_JOY_ADDR);
  Wire.write(indexOfLED);
  Wire.write(r);
  Wire.write(g);
  Wire.write(b);
  Wire.endTransmission();
}
```

Read the offset of each direction

```
void get_joystick_offset(void){
  Wire.requestFrom(FACE_JOY_ADDR, 5);
  if (Wire.available()) {

    y_data_L = Wire.read();
    y_data_H = Wire.read();
    x_data_L = Wire.read();
    x_data_H = Wire.read();

    button_data = Wire.read();// Z(0: released 1: pressed)
  }
}
```


GetData
Wire.requestFrom(0x52, 5);
while (Wire.available())
{
  adX_H = Wire.read();
  adX_L = Wire.read();

SetRGB
Wire.beginTransmission(0x52);
Wire.write(indexOfLED);
Wire.write(R);

```
  adY_H = Wire.read();          Wire.write(G);
  adY_L = Wire.read();          Wire.write(B);
  pressed=Wire.read();          Wire.endTransmission();
}
```

```
  adY_H = Wire.read();          Wire.write(G);
  adY_L = Wire.read();          Wire.endTransmission();
  pressed=Wire.read();
}
```

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