Relay Module(ST1080)

1. Introduction

The module is uses SRD relay module to control high-voltage electrical devices. (maximum 250V).It can be used in interactive projects and can also be used to control the lighting, electrical and other equipments. It can be controlled directly by a wide range of microcontrollers and can be controlled through the digital IO port, such as solenoid valves, lamps, motors and other high current or high voltage devices.

specifications:

- Number of I/O Channels: 1
- Type: Digital
- Switching capacity available by 10A in spite of small size design for high density P.C. board mounting technique.
- Control signal: TTL level
- Max. Allowable Voltage: 250VAC/110VDC
- Max. Allowable Power Force: From C(800VAC/240W), From A(1200VA/300W)
- UL,CUL,TUV recognized.
- Indication LED for Relay's Status

2. Pinout

Pin Name	Description
"+"	Power(5V DC)
"-"	Gnd
"S"	Signal pin, connected with Arduino
"NO"	Normally Open Connection
"NC"	Normally Closed Connection
"C"(middle pin)	Common Connection, Which connected with the power for the load.

3. Example

This example controls a LED(or other high power load) via the Relay module. Physical connection as below:
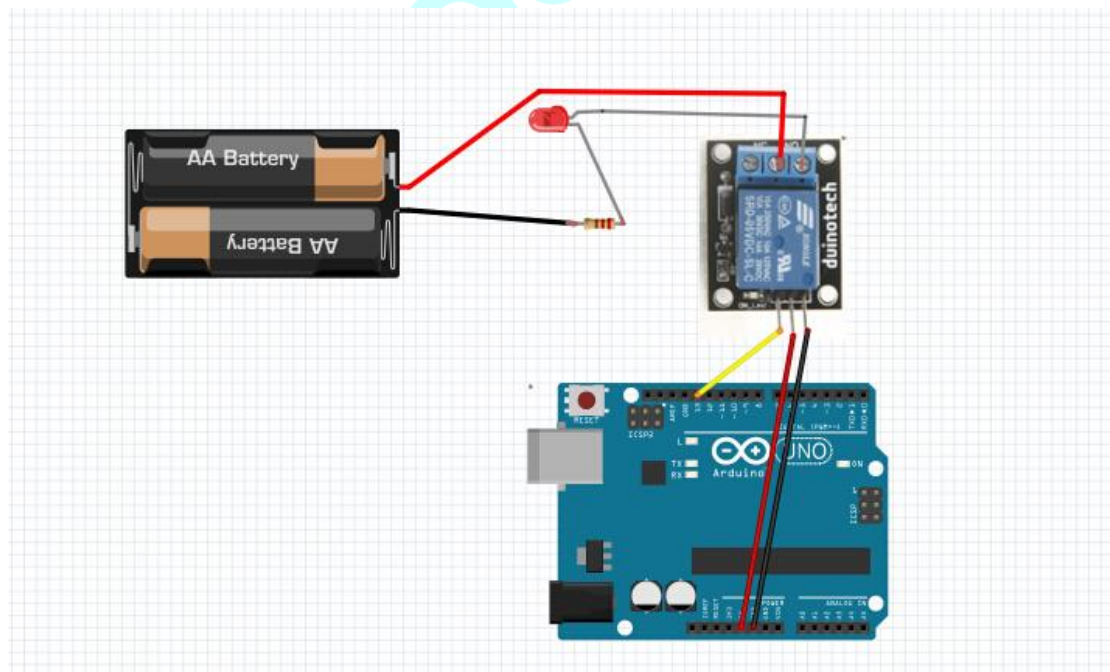
The example code as below:

*********Code begin*********

```
int led = 13;

// the setup routine runs once when you press reset:
void setup() {
  // initialize the digital pin as an output.
  pinMode(led, OUTPUT);
}

// the loop routine runs over and over again forever:
void loop() {
  digitalWrite(led, HIGH);    // turn the LED on (HIGH is the voltage
level)
  delay(1000);                // wait for a second
  digitalWrite(led, LOW);     // turn the LED off by making the voltage
LOW
  delay(1000);                // wait for a second
}
```

*********Code End*********