

3 color - full color LED 模块

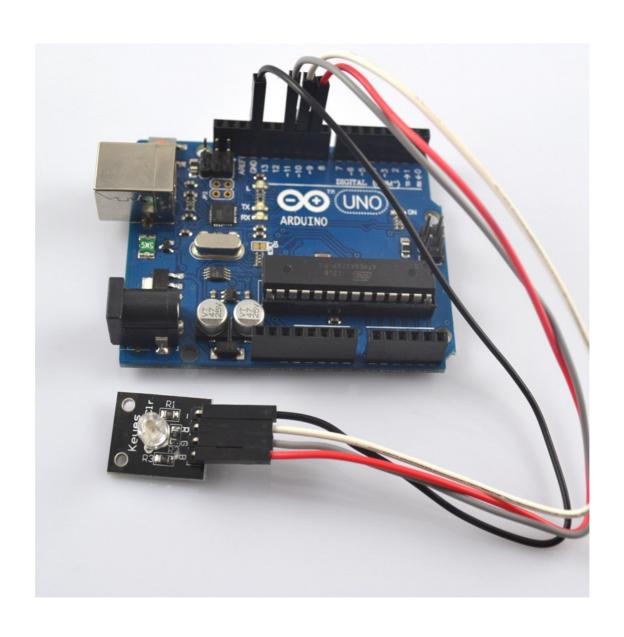
一、概述:

RGB LED 模块由一个插件全彩 LED 制成,通过 R、G、B 三个引脚的 PWM 电压输入可以调节三种基色(红/蓝/绿)的强度从而实现全彩的混色效果。用 Arduino 对模块的控制可实现 酷炫的灯光效果。

二、产品参数:

产品特性:

- 1,使用插件全彩 LED
- 2, RGB 三基色接限流电阻防止烧坏
- 3,通过PWM调节三基色可混合得到不同的颜色
- 4, 可与各种单片机接口
- 5, 工作电压: 5V
- 6, LED 驱动模式: 共阴驱动





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三、Arduino test code:
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```
int redpin = 11; //select the pin for the red LED
int bluepin =10; // select the pin for the blue LED
int greenpin =9;// select the pin for the green LED
int val;
void setup() {
 pinMode(redpin, OUTPUT);
 pinMode(bluepin, OUTPUT);
 pinMode(greenpin, OUTPUT);
 Serial.begin(9600);
}
void loop()
for(val=255; val>0; val--)
 analogWrite(11, val);
 analogWrite(10, 255-val);
 analogWrite(9, 128-val);
 delay(1);
 }
for(val=0; val<255; val++)
 analogWrite(11, val);
 analogWrite(10, 255-val);
 analogWrite(9, 128-val);
 delay(1);
Serial.println(val, DEC);
```

}