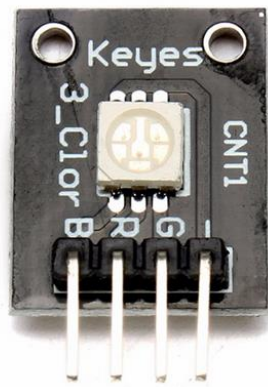




RGB LED Module - Single

This RGB LED module is based on SMD full color LED light source. Separate drive pin for Red, Green and Blue LED. Full color mixing can be achieved by applying PWM control signal to these RGB pins. This module can easily control using Arduino for color lighting effect.

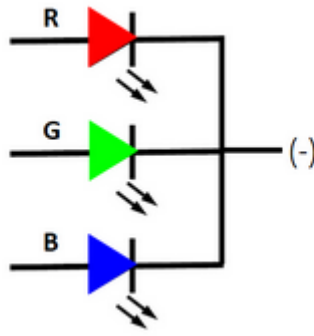


SKU: [DSP-1168](#)

Brief Data:

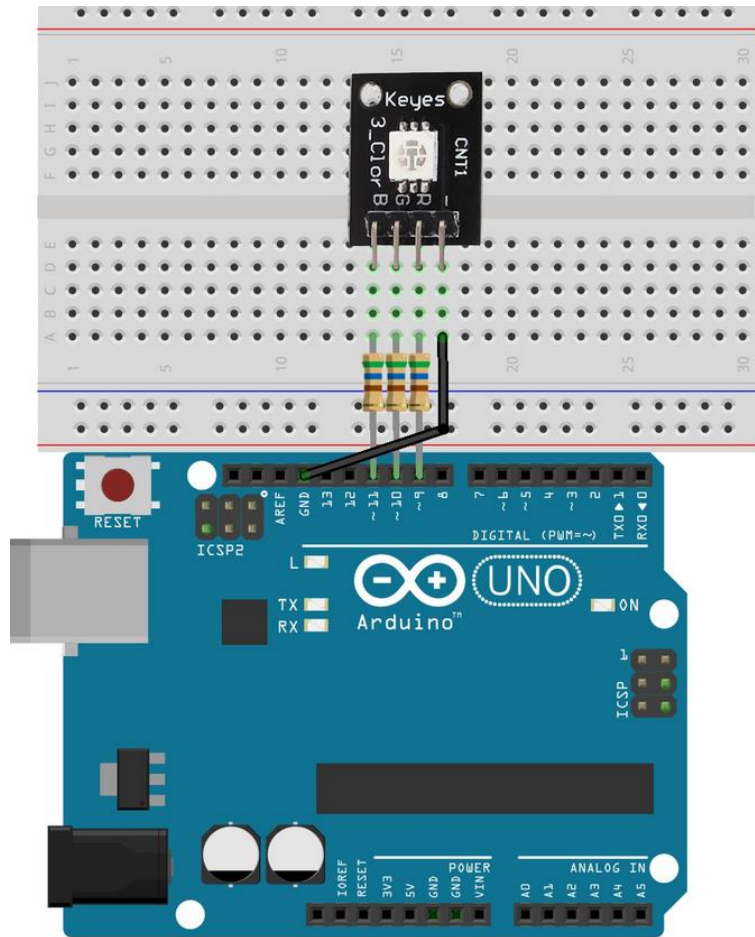
- LED Type: 5050 SMD.
- Driving: Common Cathode.
- Individual RGB.
- Forward Voltage:
 - Red: 2.0V.
 - Green: 3.2V.
 - Blue; 3.2V.
- Forward Current: 20mA.
- With breadboard friendly 2.54mm header pin.
- Module Dimensions: (2.5x1.5x0.2) cm

Common Cathode:



Arduino Connection Examples:

Wire up the RGB Module to the Arduino control board as below connection. Insert a resistor of value 150Ω in series with each RGB pin input for current limiting using 5V supply from Arduino output pins.



Arduino Sketch: Copy and paste the below Arduino IDE and upload to the Arduino Uno. After successful uploaded the code, you should see the color effect from the module.

```
/*=====
// Author      : Handson Technology
// Project     : Arduino Uno
// Description  : RGB LED Module Demo
// Source-Code : rgb.ino
//=====
```

```

*/

int redPin = 11;
int greenPin = 10;
int bluePin = 9;

//uncomment this line if using a Common Anode LED
//#define COMMON_ANODE

void setup()
{
  pinMode(redPin, OUTPUT);
  pinMode(greenPin, OUTPUT);
  pinMode(bluePin, OUTPUT);
}

void loop()
{
  setColor(255, 0, 0); // red
  delay(1000);
  setColor(0, 255, 0); // green
  delay(1000);
  setColor(0, 0, 255); // blue
  delay(1000);
  setColor(255, 255, 0); // yellow
  delay(1000);
  setColor(80, 0, 80); // purple
  delay(1000);
  setColor(0, 255, 255); // aqua
  delay(1000);
}

void setColor(int red, int green, int blue)
{
  #ifdef COMMON_ANODE
    red = 255 - red;
    green = 255 - green;
    blue = 255 - blue;
  #endif
  analogWrite(redPin, red);
  analogWrite(greenPin, green);
  analogWrite(bluePin, blue);
}

```



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