

Grove - Variable Color LED

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This Grove consists of one 8mm RGB LED. It operates at 5V DC. When SIG pin is logic HIGH, the RGB LED will light up. Perfect for use on Seeeduino digital outputs, or also can be controlled by pulse-width modulation. And it uses three adjustable resistor to change the color of the RGB LED.

Features

- Grove compatible
- Color adjustable

Application Ideas

• Toys

B

• Decoration

Caution

Be gentle while adjusting the R, G and B adjustable resistances in case of over-turning.

Specifications

ltem	Typical	Unit
Operate Voltage	5.0	VDC
Working Current	20	mA
Variable Resistor	<1	ΚΩ

Platforms Supported

Arduino Raspberry Pi

Caution

The platforms mentioned above as supported is/are an indication of the module's software or theoritical compatibility. We only provide software library or code examples for Arduino platform in most cases. It is not possible to provide software library / demo code for all possible MCU platforms. Hence, users have to write their own software library.

Usage

The three resistances RED, GREEN and BLUE of the module control the R, G and B channels respectively. By adjusting the three adjustable resistances, it can turn out variable color. The thing to notice, however, is that be gentle when turning the adjustable resistances.

The following sketch demonstrates a simple application of controlling its brightness. As the picture on the below indicates, the Variable Color LED is connected to digital port 9 of the Grove - Base Shield. The hardware installation is as follows:



• Copy and paste code below to a new Arduino sketch.

Demo code like:





- Upload the code. Adjust the three adjustable resistances, I am sure you will like it. Have a try!

Schematic Online Viewer

Resources

• Variable Color LED eagle_file

Tech Support

Please submit any technical issue into our forum.