

Grove - LCD RGB Backlight



Done with tedious mono color backlight? This Grove enables you to set the color to whatever you like via the simple and concise Grove interface. It takes I2C as communication method with your microcontroller. So number of pins required for data exchange and backlight control shrinks from ~10 to 2, relieving IOs for other challenging tasks. Besides, Grove - LCD RGB Backlight supports user-defined characters. Want to get a love heart or some other foreign characters? Just take advantage of this feature and design it!

This product is a replacement of Grove - Serial LCD. If you are looking for primitive 16x2 LCD modules, we have green yellow backlight version and blue backlight version on sale also.

Specification

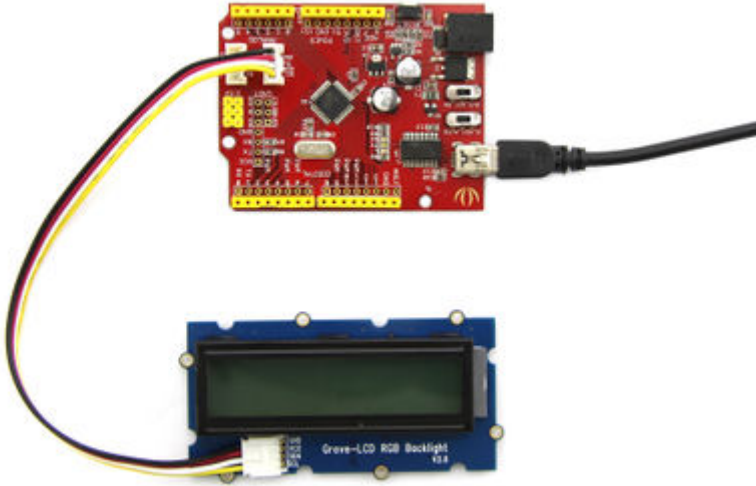
- Input Voltage:5V
- Operating Current:
- CGROM: 10880 bit
- CGRAM: 64*8 bit
- Colorful RGB Backlight
- Built-in English and Japanese fonts
- I2C communication, uses only two IOs
- Automatic power-on reset

Demonstration

This demonstration will show you how to use Grove - LCD RGB Backlight, we need a Seeeduino V3.0 else.

Hardware Installation

Hardware instration is very easy, because there's an I2C Grove in Seeeduino, so what we need to do is connect it to I2C Grove via a Grove cable.



Download Code and Upload

You can download the library in github, click [here](#), then extract it to libraries folder of Arduino.

Hello World

there is a Hello World example in the library, open it, and upload to Seeeduino V3.0. then you can see "Hello world" on the first row, and second row will print the number of second since reset.



Change Color of Backlight

One of Grove - LCD RGB Backlight's most important feature is: you can change the color backlight, and it's a very simple thing, just use the following function:

```
void setRGB(int r, int g, int b);
```

Then let's try a Red backlight.

Modify the code about color into :

```
const int colorR = 255;  
const int colorG = 0;  
const int colorB = 0;
```

Upload the code again, woo, see the backlight turn to Red? Then why not try another color? Whatever you like.

