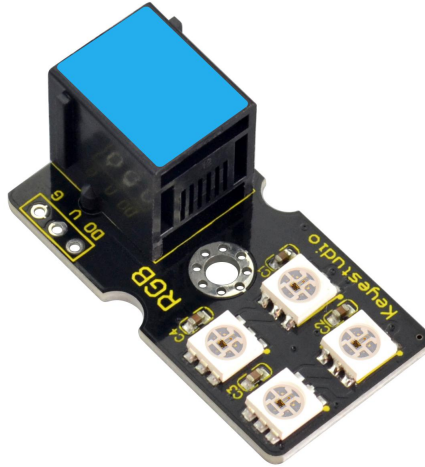




EASY plug 2812 2x2 full-color RGB Module



Introduction

EASY plug 2812 2x2 full color RGB module is a smart external control LED light source that integrates control circuit and lighting circuit.

Each LED has the same appearance as a 5050 LED bead, and each component is a pixel point.

The pixel point includes an intelligent digital interface data latch signal shaping and amplifying driving circuit, as well as a high-precision internal oscillator and a 12V high-voltage programmable constant current control part, which effectively ensures that the color of the pixel point light is highly uniform.

The data protocol adopts the single-line return-to-zero code communication mode. After power-on and reset the pixel point, the S pin receives the data transmitted from the controller. And the 24-bit data are extracted by the first pixel and then sent to the data latch inside the pixel point.

LED has advantages of low voltage drive, environmental protection and energy



saving, high brightness, wide scattering angle, good consistency, ultra low power, long life and so on.

You can easily connect it to EASY Plug control board for communication using a RJ11 cable.

Parameters

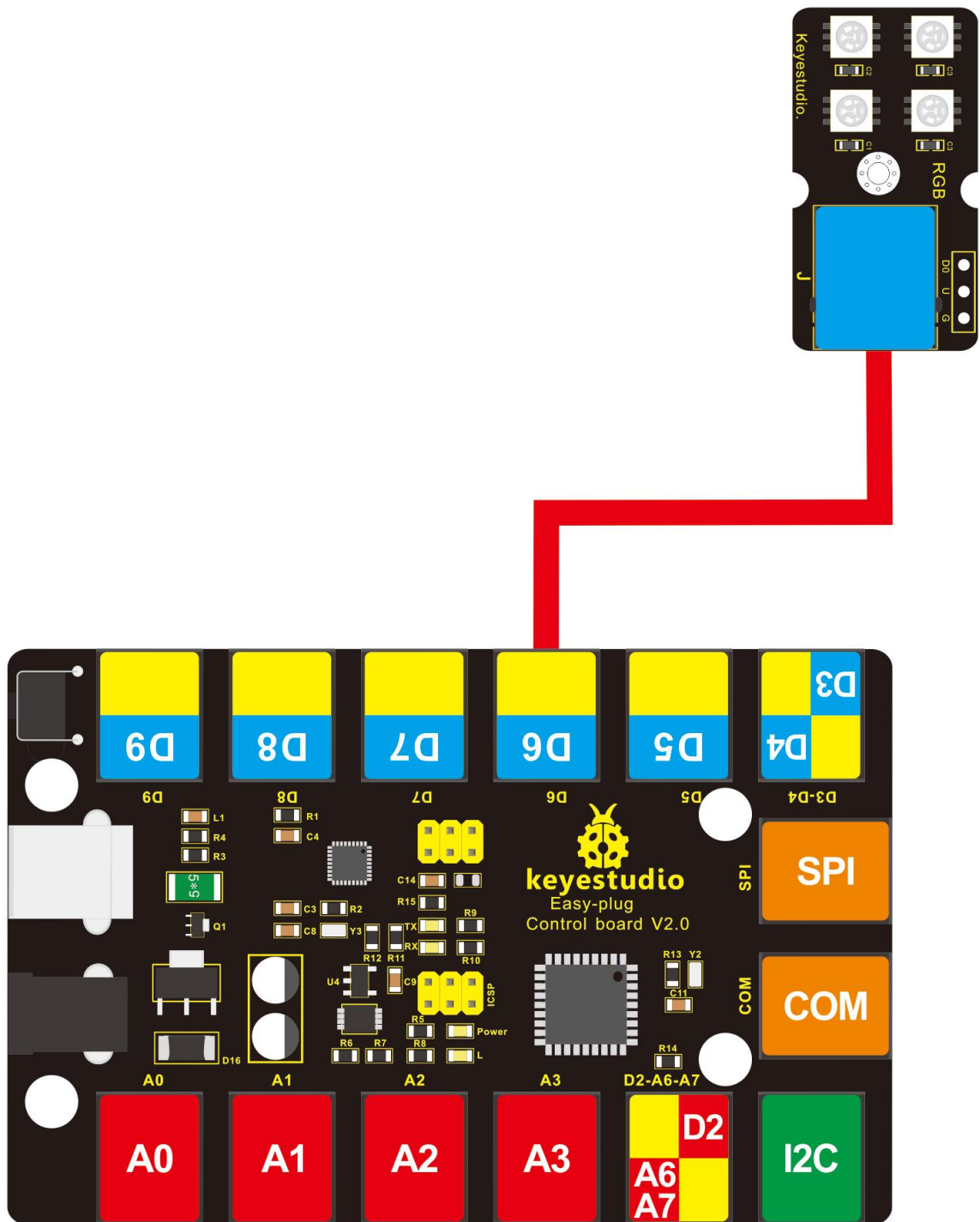
- Operating Voltage: DC5V
- Power: 0.1W
- Light Source: SMD 5050 RGB
- IC model: 4 / WS2812
- Gray level: 256 levels
- Illumination angle: 180°
- Luminous color: can be adjusted by the controller, white, red, yellow, blue, green, etc.

Technical Details

- Dimensions: 38mm*20mm*18mm
- Weight: 4.5g

Connect It Up

Connect the EASY Plug RGB module to control board using an RJ11 cable. Then connect the control board to your PC with a USB cable.



Upload the Code

Below is an example code. Open or direct drag below code to [Mixly blocks](#) and upload.



do red

Delay ms 1000

do green

Delay ms 1000

do blue

Delay ms 1000

red

do

2812RGB Module Pin 6 count 1 R: 255 G: 0 B: 0

2812RGB Module Pin 6 count 2 R: 255 G: 0 B: 0

2812RGB Module Pin 6 count 3 R: 255 G: 0 B: 0

2812RGB Module Pin 6 count 4 R: 255 G: 0 B: 0

green

do

2812RGB Module Pin 6 count 1 R: 0 G: 255 B: 0

2812RGB Module Pin 6 count 2 R: 0 G: 255 B: 0

2812RGB Module Pin 6 count 3 R: 0 G: 255 B: 0

2812RGB Module Pin 6 count 4 R: 0 G: 255 B: 0

blue

do

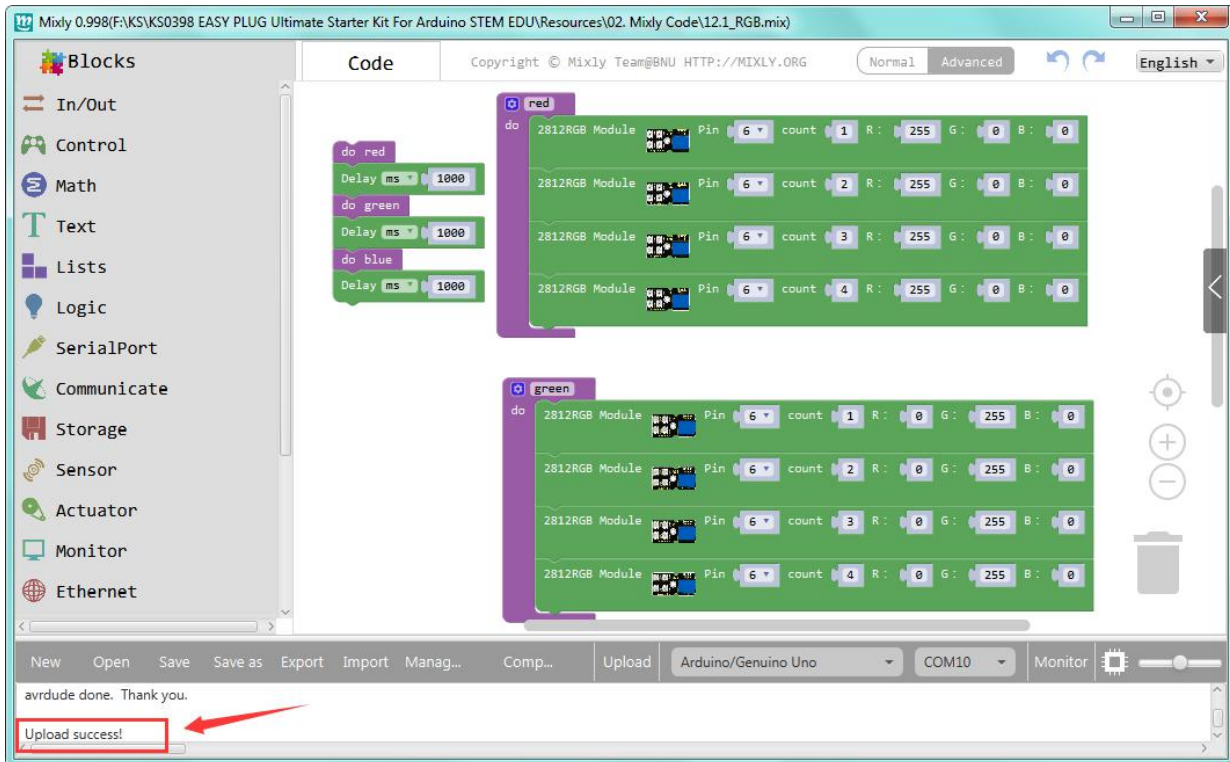
2812RGB Module Pin 6 count 1 R: 0 G: 0 B: 255

2812RGB Module Pin 6 count 2 R: 0 G: 0 B: 255

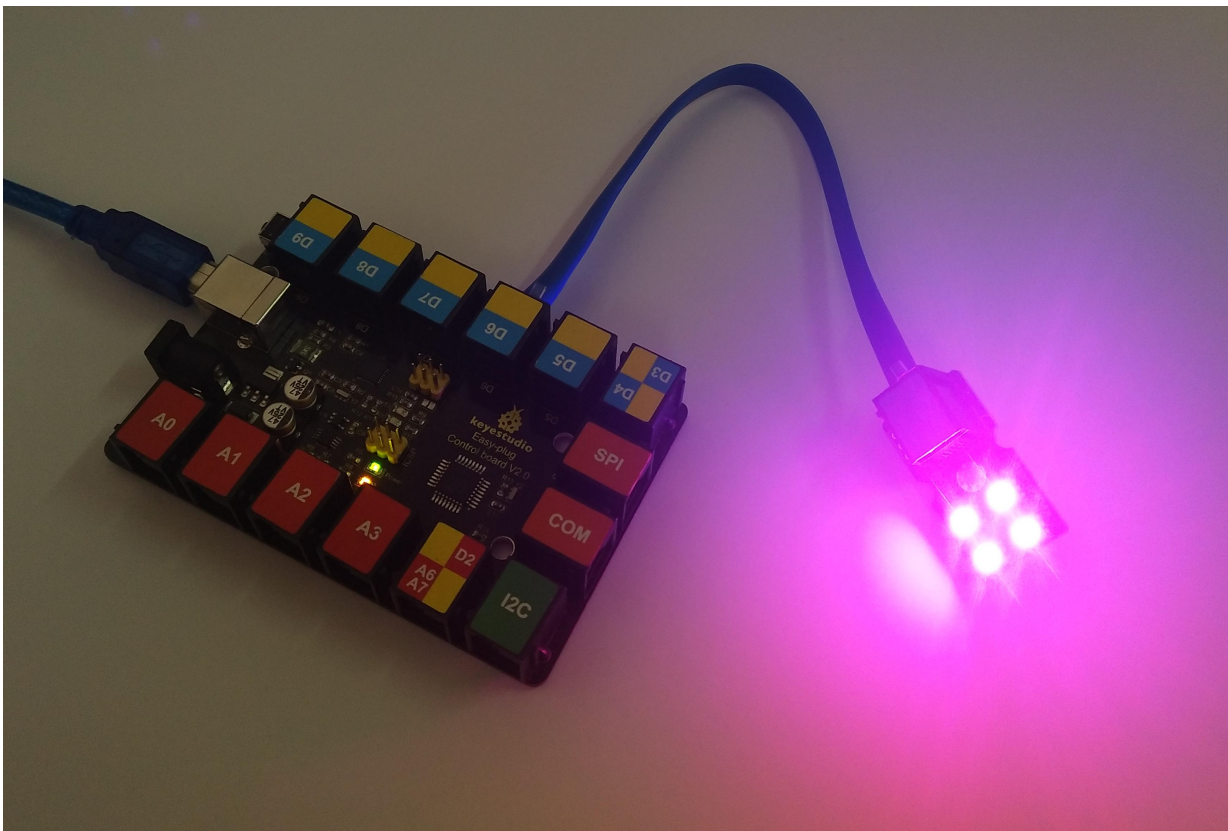
2812RGB Module Pin 6 count 3 R: 0 G: 0 B: 255

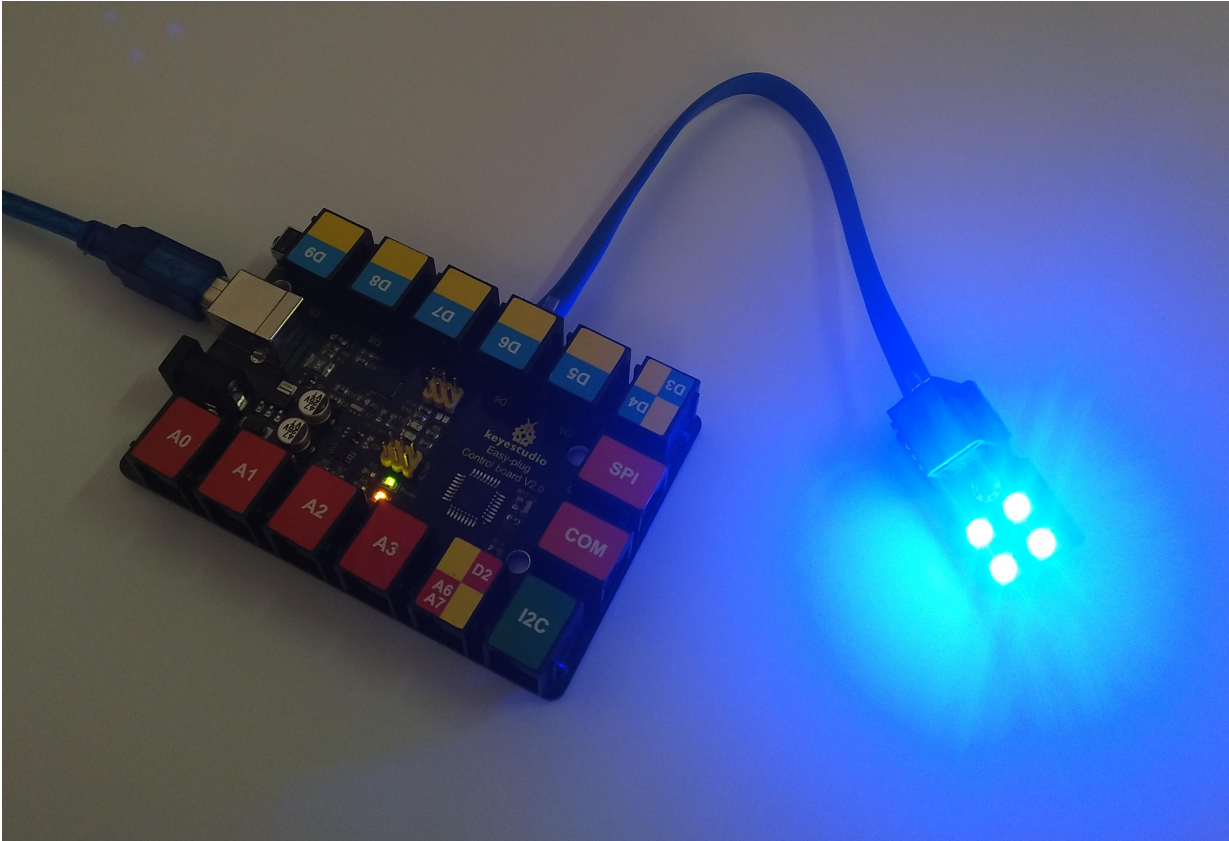
2812RGB Module Pin 6 count 4 R: 0 G: 0 B: 255

What You Should See



After uploading the code, you should see the 4 RGB LEDs flash in different colors Red, Green, Blue.





Resource

<https://fs.keyestudio.com/KS0370>