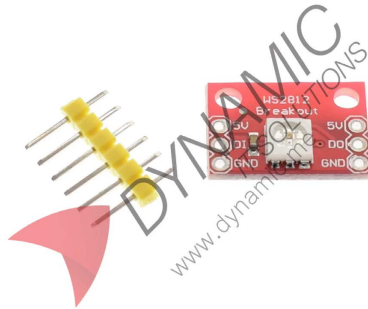


WS2812 RGB LED Breakout Module



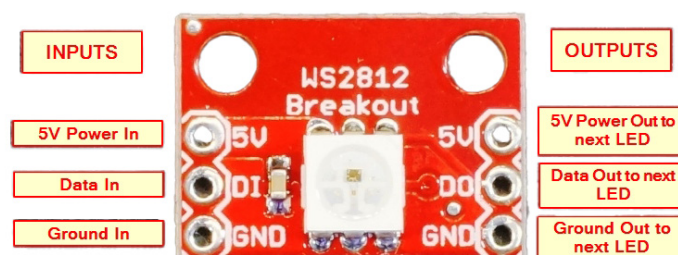
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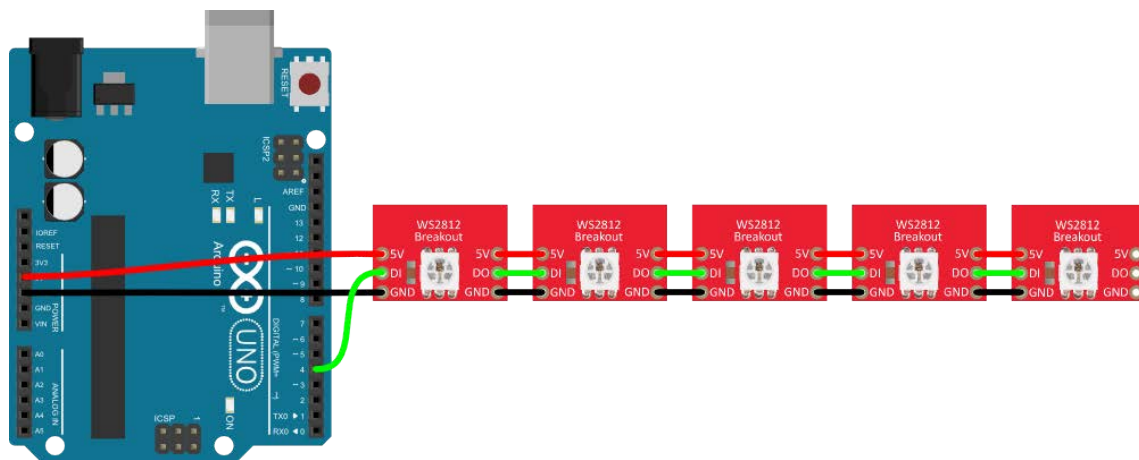
The WS2812 RGB LED Breakout Module integrates a 5050 RGB LED with an internal WS2811 driver, providing full-color control through a 1-wire serial interface. Each LED can be individually addressed, allowing for dynamic color effects and animations. The module is 5V compatible and ideal for use with Arduino, Raspberry Pi, and similar platforms. It supports chaining multiple LEDs for advanced lighting designs and offers reliable performance in decorative and technical lighting applications.

Specifications	
LED Type	WS2812 (5050 RGB SMD)
Driver IC	WS2811 Integrated
Interface	1-Wire Digital
Operating Voltage	5V (5–7V range)
Power Consumption	Up to 60mA per LED
Data Compatibility	Adafruit NeoPixel, FastLED
Resistor Recommendation	330–470Ω on DI line
Control Method	Digital sequential data transfer
Brightness Control	Software adjustable
Usage	RGB lighting, indicators, LED displays, artistic projects

Pinouts:

Pin Name	Type	Description
5V (Input)	Power	Connect to 5V power supply
DI	Input	Data input from microcontroller or previous LED
GND (Input)	Ground	Connect to ground
5V (Output)	Power	Power output to next LED in chain
DO	Output	Data output to next LED DI
GND (Output)	Ground	Ground connection to next LED





Product Picture:

