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Gravity: Digital RGB LED Module

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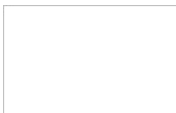
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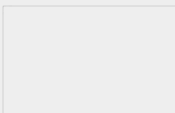


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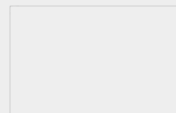


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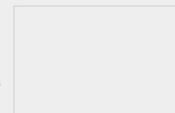
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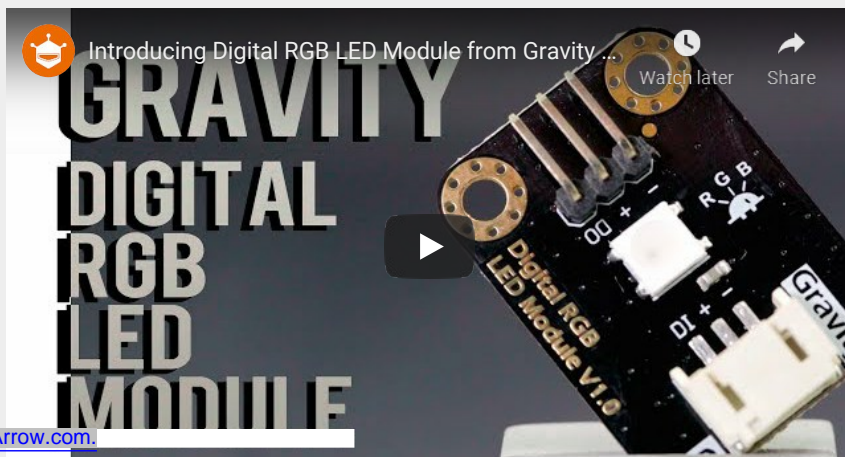
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INTRODUCTION

Gravity: Digital RGB LED Module is a cascable single RGB LED module compatible with RGB LED strip. The Gravity interface provides a more elegant manner for the connections between modules and most of mainstream controllers such as Arduino, micro:bit, Firebeetle Series, LattePanda, and Raspberry Pi with an abundant kinds of DFRobot IO expansion shield. Compared to the traditional RGB LED module, where three control signal pins are required for a single LED, this module only needs one signal pin for all LEDs in cascade. Thanks to such individual module design, RGB LED strip built by such independent modules can realize extremely low power consumption per meter compared to traditional RGB LED strip. And such feature makes it possible to cascade more than 100 modules with a total length up to several tens of meters but power requirement no more than 5V 2A. This also makes it much simpler and more flexible to configure the length of an RGB LED strip, without the need of cutting a RGB LED strip or soldering every LED pieces.

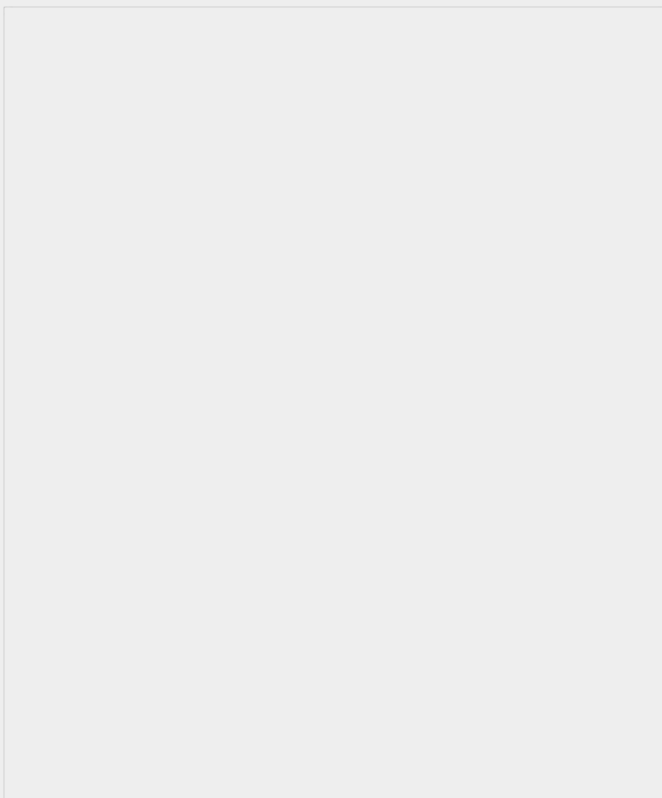
The module adopts the same high-brightness RGB LED in the traditional RGB LED strip, inheriting its excellent display performance and is fully compatible with the driving circuit or program. This requires little changes for existing programs to shift from RGB LED strip to RGB LED module string. Have fun with this tiny RGB LED module by cool effects of flashing, rainbow, even letters, pictures or animations.

Introducing Digital RGB LED Module from Gravity Series

A video thumbnail showing the Gravity: Digital RGB LED Module. The text "GRAVITY DIGITAL RGB LED MODULE" is overlaid on the image. A play button icon is in the center. In the top right corner, there are icons for "Watch later" and "Share".

Downloaded from [Arrow.com](#)

Connection Diagram



Gravity: Digital RGB LED Module connection diagram (Arduino UNO)

Modules cascading

FEATURES

- Excellent display performance, quality high-brightness WS2812 REB LED
- Extremely long cascading length, low unit length power consumption
- High compatibility, compatible with 3.3V/5V controller, RGB LED strip drivers or programs
- Standard connector, easy setup without cutting or soldering

APPLICATIONS

- Holiday Decorations
- Signal Indicator

SPECIFICATION

- LED Type: WS2812 RGB 5050 LED
- Input Voltage: 3.3V~5.5V
- Maximum Current: 48mA
- Quiescent Current: 0.7mA
- Interface: Gravity 3P Digital
- Dimension: 30.0mm*22.0mm / 1.18*0.87 in



DOCUMENTS

- [Product wiki](#)
- [More Documents](#)

SHIPPING LIST

- Gravity: Digital RGB LED Module x1
- Gravity 3P Digital Wire x1

FAQ




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