



## Grove - RGB LED Ring (20 - WS2813 Mini)

SKU 104020128

Grove - RGB LED Ring (20 - WS2813 Mini) is a cost-effective full color LED ring with 20 chainable and programmable WS2813 mini LEDs.

The Grove - RGB LED Ring (20 - WS2813 Mini) is a mini version of WS2813 Digital RGB LED Ring. The RGB LED Ring are 3535-sized LEDs with an embedded microcontroller inside the LED. The WS2813s are each addressable as the driver chip is located inside the LED. Each LED has a constant current drive so the color will be very consistent even if the change of the voltage.

### Note

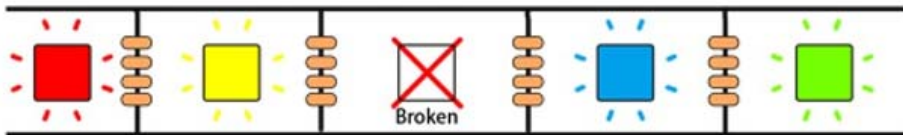
We've Released the [Grove Selection Guide](#) and hope to help you find the Grove suit you best.

## Features

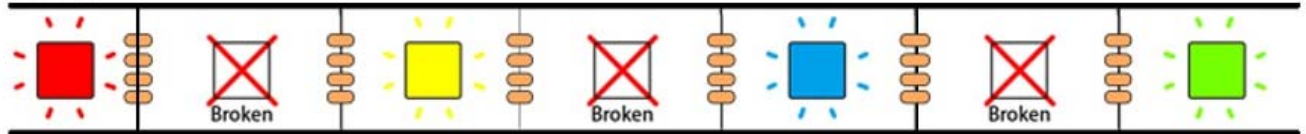
- The control circuit and RGB chip are integrated in a 3535 components, to form an external control pixel.
- Intelligent Reverse-connection protection.
- Built-in signal reshaping circuit
- 256 gray level and 16777216 full-color display
- Dual-signal wires version, signal break-point continuous transmission

## Signal break-point continuous transmission

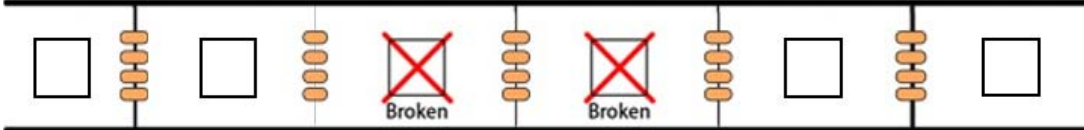
### Work



### Work



### Not Work

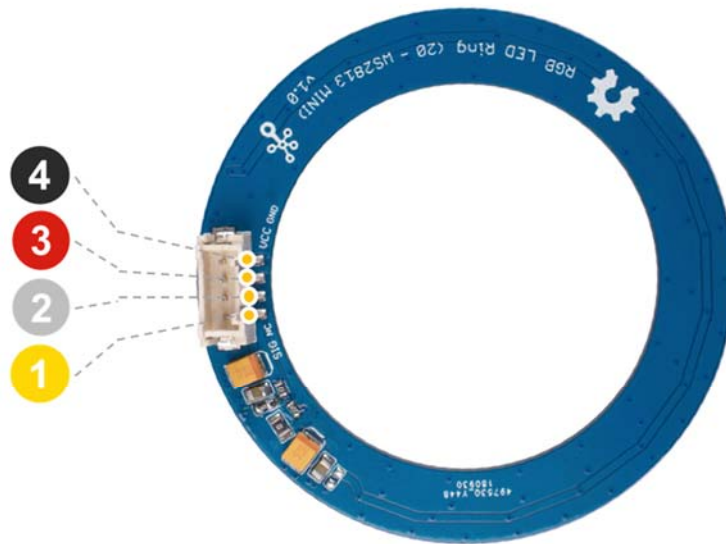


As long as not two or more adjacent LEDs are broken, the remaining LEDs will be able to work normally.

## Typical Applications

- Guardrail tube series, point light display series, flexible/rigid strips series, module series applications.
- Lighting stage costumes, innovative gadgets or any other electronic products.

## Pin Out



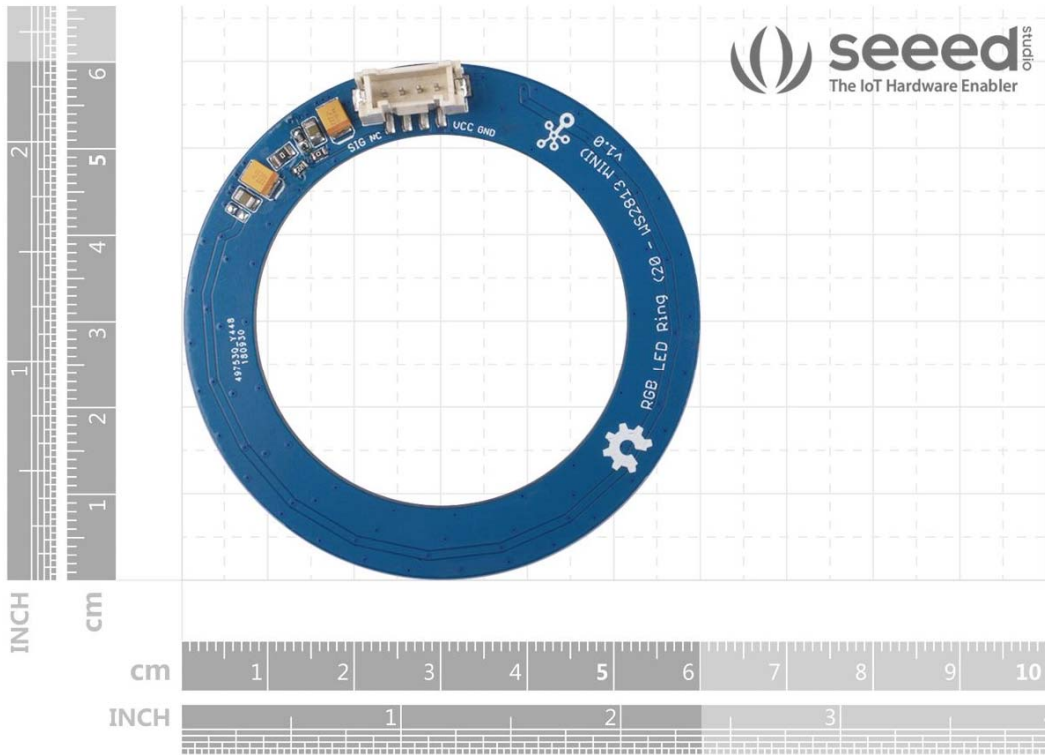
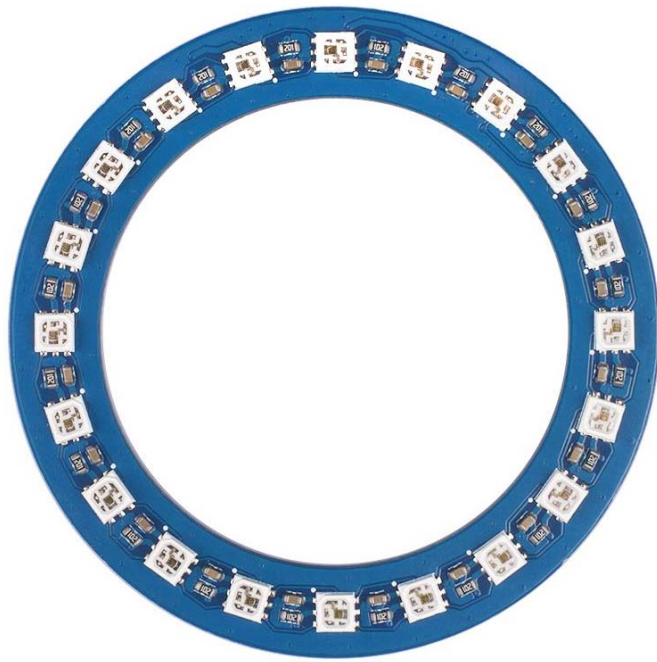
- 4 GND: connect this module to the system GND
- 3 VCC: you can use 5V or 3.3V for this module
- 2 NC: Not Connected
- 1 SIG: Signal Pin

## Part List

Grove - RGB LED Ring (20 - WS2813 Mini)	1
Grove Cable	1

## ECCN/HTS

ECCN	EAR99
HSCODE	9405409000
UPC	



<https://www.seeedstudio.com/Grove-RGB-LED-Ring-20-WS2813-Mini-p-3227.html/9-17-19>