



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

SKU 104020170

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



We have already released the Grove RGB LED Ring family. Now we welcome their relatives which are the Grove RGB LED Stick family with 2 members.

- Grove - RGB LED Stick (15-WS2813 Mini)
- Grove - RGB LED Stick (20-WS2813 Mini)

This Grove - RGB LED stick is similar to Grove - RGB LED stick (10-WS2813 Mini) but more in the number of LEDs. It contains 20 LEDs.

You can control these 20 LEDs easily by only one signal input pin because of the integration circuit. Every LED on the board is addressable, so you can code your own project in different demands. What's more? The WS2813 Mini support signal break-point continuous transmission, which means you can still use other LEDs with one LED be broken.

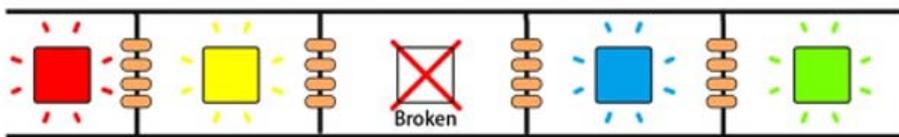
At last, you may use this stick to light up numbers of LEDs as you like with the help of Grove - RGB LED to be the bridge of two sticks or just out them in line. Hope you enjoy your innovation work and have fun!

### Features

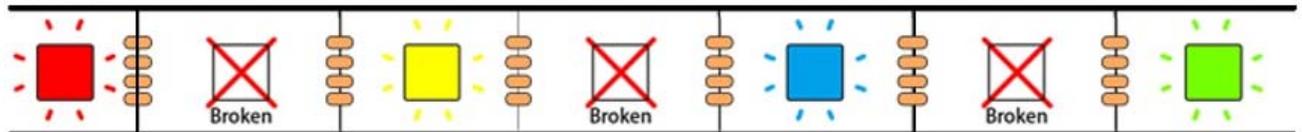
- 256 gray levels,  $256 \times 256 \times 256 = 16777216$  full-color display
- Built-in control circuit in a 3535 components
- Chainable, can be cascaded with multiple LED rings
- Support 5V/3.3V power in, support 5V/3.3V control data level.
- Dual-signal wires, signal break-point continuous transmission

### Signal break-point continuous transmission

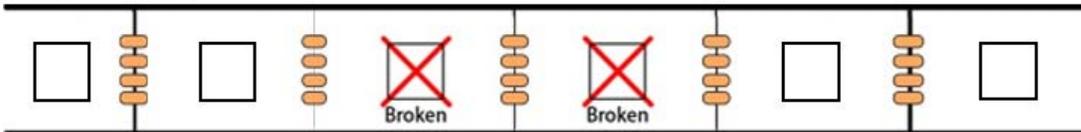
#### Work



#### Work

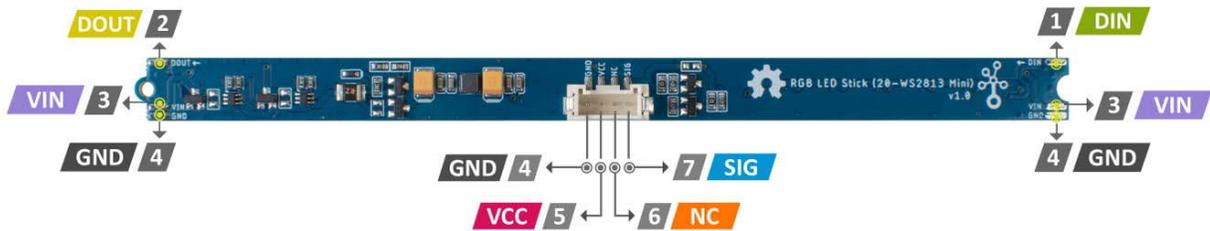


#### Not Work



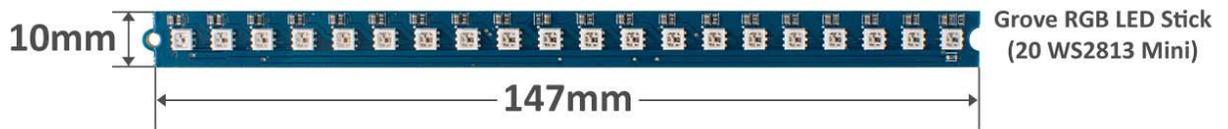
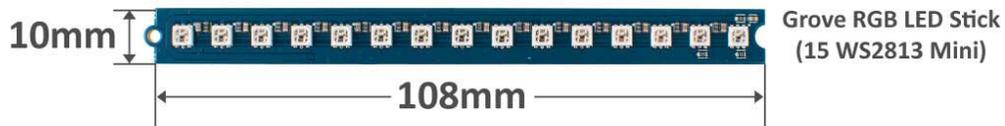
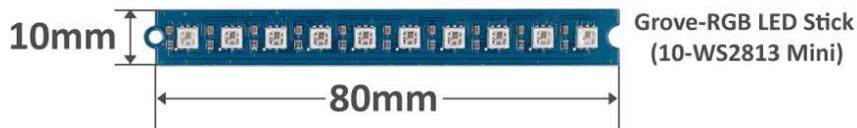
*As long as not two or more adjacent LEDs are broken, the remaining LEDs will be able to work normally*

## Hardware Overview



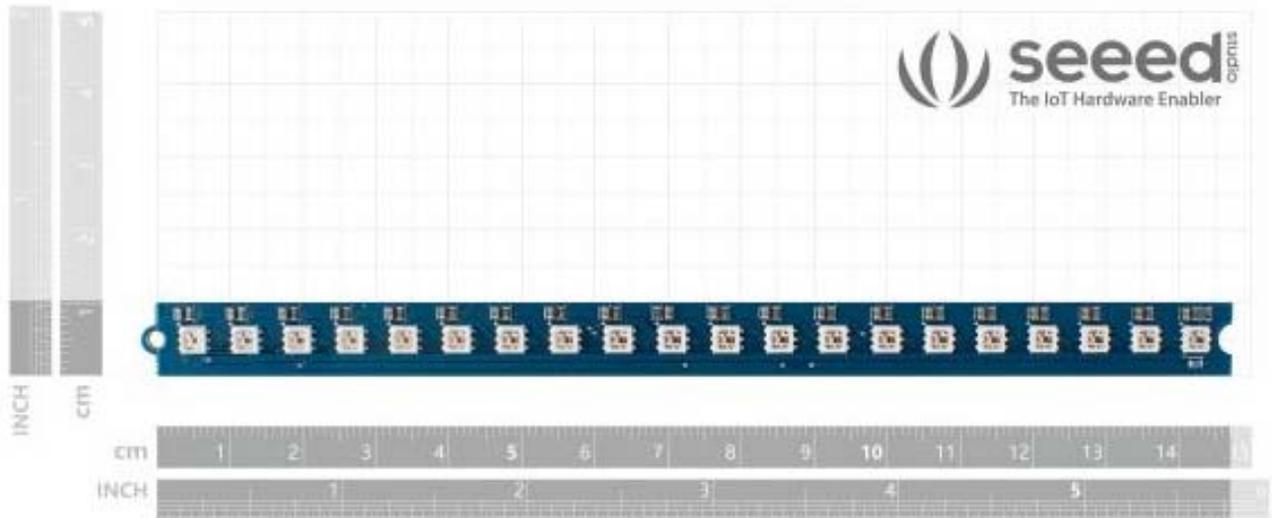
- 1** : Control data signal input\*<sup>1</sup>
- 2** : Control data signal output
- 3** : Power supply 5V/3.3V\*<sup>2</sup>
- 4** : Connected to the system GND
- 5** : Power supply from Grove 5V/3.3V\*<sup>2</sup>
- 6** : Not connected
- 7** : Control data signal input  
from Grove connector\*<sup>1</sup>

## Dimension



## ECCN/HTS

HSCODE	9405409000
UPC	



<https://www.seeedstudio.com/Grove-RGB-LED-Stick-20-WS2813-Mini-p-4271.html>10-3-19