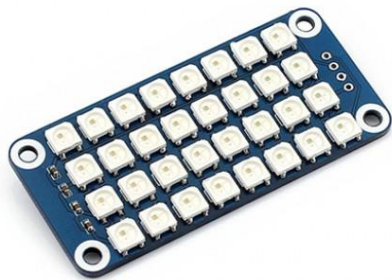# True color RGB LED HAT for Raspberry Pi, colorful display

SKU: 12725
Part Number: RGB LED HAT
Brand: Waveshare

True color RGB LED HAT for Raspberry Pi, colorful display

Overview

This RGB LED HAT can be easily attached on top of the Raspberry Pi to display colorful effect, and controlled by only one signal pin.

Features

- Supports any revision of Raspberry Pi (directly-pluggable)
- Onboard 4 × 8 RGB LED (WS2812B)
- Control pin is configurable via jumpers (0Ω resistor)
- Break out control pins, easy for working with other MCUs
- Comes with development resources and manual (examples in Python and Web control)

Specifications

- Operating voltage: 5V
- Brightness: adjustable 256 levels
- Color depth: 24-bit true color (8-bit for R/G/B respectively, totally 256x256x256=16777216 colors)
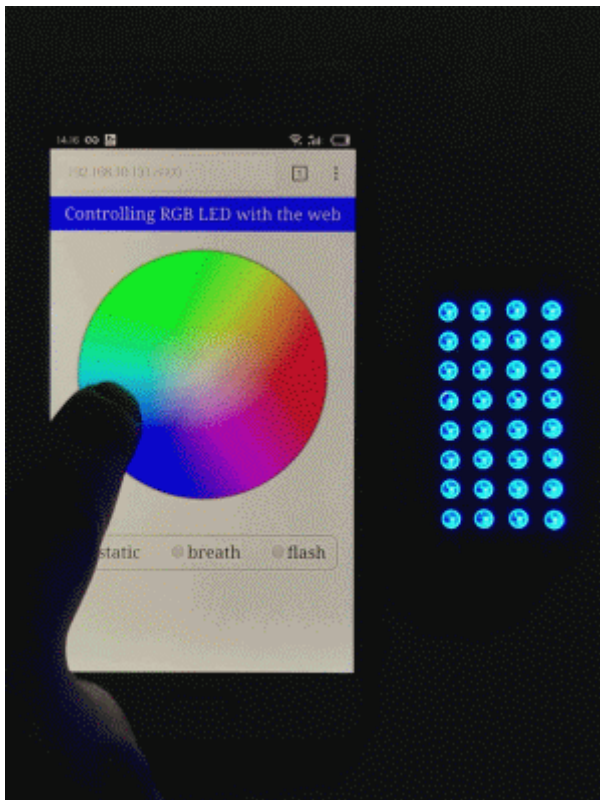
- Data rate: 800Kbps(typ)
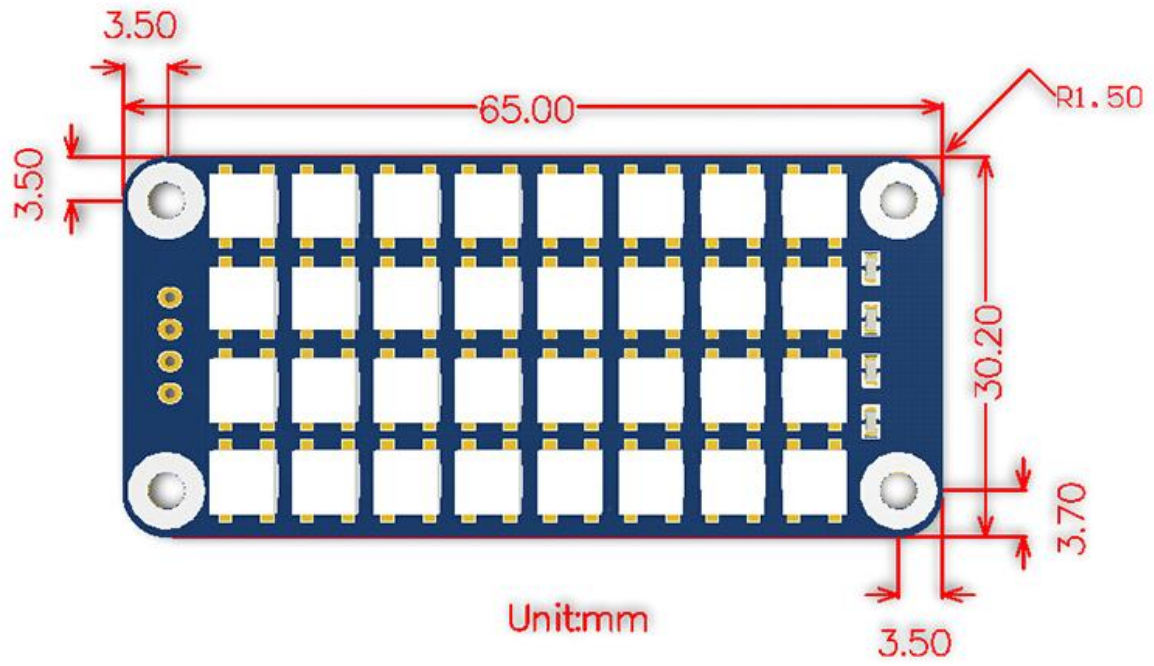- Dimension: 65mm × 30.2mm
- Mounting hole size: 3.0mm

How to Use

In the case of working with a MCU:

- 5V ↔ 5V power
- GND ↔ GND
- DIN ↔ Signal input
- DOUT ↔ Signal output (optional)

Demo

Dimensions

Unit:mm

Development Resources

Wiki : www.waveshare.com/wiki/RGB_LED_HAT