seeed studio

INDUSTRIAL PRODUCT DATASHEET

WS2812B LED Breakout Board

Breakout board for the WS2812B intelligent RGB LED with built-in control, signal reshaping, and cascading capability.

SKU	UPDATED	PRICE
104990139	2024-08-09 02:28:51	$1.45(Excl. VAT)



Overview



The WS2812B LED Breakout Board integrates a control circuit and an RGB chip in a 5050 package, offering 256 brightness levels and 16,777,216 display colors. It features built-in signal reshaping circuits, reset circuits, and a cascading transmission port for easy integration.

Key Features

WS2812 is an intelligent control LED light source that the control circuit and RGB chip are integrated in a package of 5050 components. It includes intelligent digital port data latch and signal reshaping amplification drive circuit. Also include a precision internal oscillator and a 12V voltage programmable constant current control part, effectively ensuring the pixel point light color height consistent.

LED with low driving voltage, environmental protection and energy saving, high brightness, scattering angle is large, good consistency, low power, long life and other advantages. The control chip integrated in LED above becoming more simple circuit, small volume, and convenient installation.

This is a breakout board of WS2812B. If you want a 6 pins WS2812 RGB LED, look at here.

Features

- Integrating control circuit and RGB chip
- Built-in signal reshaping circuit
- Built-in electric rest circuit and power lost reset circuit
- 256 brightness and 16777216 color display
- Cascading port transmission signal
- Breakout board

Specification

- Power Supply Voltage: +3.5～+5.3V
- Input Voltage: -0.5～VDD+0.5V
- Red Vf: 1.8~2.2V
- Green Vf: 3.0~3.2V
- Blue Vf: 3.2~3.4V
- Red Wavelength: 620~630 nm
- Green Wavelength: 515~530 nm
- Blue Wavelength: 465~475 nm
- Red luminous intensity(20mA): 550~700 mcd
- Green luminous intensity(20mA): 1100~1400mcd
- Blue luminous intensity(20mA): 200~400 mcd

WS2812 Datasheet

For any technical support or suggestion, please kindly go to our **forum**.

Compliance & Logistics

HSCODE	8538900000
ROHS	1

Resource Links

- https://www.seeedstudio.com/WS2812B-LED-Breakout-Board-p-2010.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com