

PRODUCT DATASHEET



Smart LED WS2812B Ring24

333101

The Smart LED WS2812B Ring24 features 24 individually addressable RGB LEDs for vibrant animations and dynamic lighting in projects.

Full product documentation, files and tutorials: solde.red/333101

CORE ATTRIBUTES

SKU **333101**

WEIGHT **9 g**

BARCODE **732388668205**

DESCRIPTION

The Smart LED WS2812B Ring24 is a circular array of 24 individually addressable WS2812B RGB LEDs, perfect for vibrant and dynamic lighting. Each LED can be controlled independently via a single data line, enabling complex animations and color patterns with microcontrollers like Arduino or ESP32. Its durable design ensures reliable performance for wearable tech, ambient lighting, or LED Alerts.

Operating at 5V, each LED draws ~18 mA, with a maximum ring current of 432 mA. The 67 mm diameter fits standard enclosures, and the WS2812B protocol allows daisy-chained control from one digital pin. High refresh rates ensure smooth, flicker-free animations with minimal external components.

Ideal for visual feedback in robotics, cosplay, or interactive art, the Ring24 displays complex color gradients or status indicators with ease. Pair it with a Qwiic-compatible microcontroller for simplified integration and start building professional-grade dynamic lighting projects today.

TECHNICAL DETAILS

- **Number of LEDs:** 24
- **Voltage:** 5V
- **LED type:** WS2812B
- **Current:** 18mA per LED
- **Circle outer diameter:** 67 mm / 2.6 inch

SPECIFICATIONS

INTERFACE

Digital Gpio

QWIIC COMPATIBLE

No

BREADBOARD COMPATIBLE	Yes
IC PART NUMBER	WS2812B
SUPPLY VOLTAGE MIN V	5
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	5V Only
OPERATING CURRENT (mA)	1440 mA

LINKS

Arduino Library	https://github.com/SolderedElectronics/Soldered-WS2812-Smart-Leds-Arduino-Library
Full Documentation	https://docs.soldered.com/ws2812b/overview/
Arduino: Get Started	https://docs.soldered.com/ws2812b/arduino/getting-started/
Hardware Details	https://docs.soldered.com/ws2812b/hardware/
Arduino Library Documentation	https://docs.soldered.com/ws2812b/arduino/brightness-control/
mim_package	https://checkmim.com/packages/solderedelectronics+Soldered-WS2812-MicroPython-Library
MicroPython Module	https://github.com/SolderedElectronics/Soldered-WS2812-MicroPython-Library

GALLERY

