

2x2 LED RGB Neopixel Module v1.0

A Lego-compatible Crazy Circuits module

The WS2812B Neopixel is an RGB LED that's addressable using the Adafruit Neopixel library for Arduino. Neopixels can be chained together by connecting the DOUT pin of one Neopixel to the DIN pin of the next Neopixel.

An onboard 0.1uF capacitor protects the Neopixel from the controller and the 470-ohm resistor on DIN helps the microcontroller talk reliably to the Neopixel.

Bill of Materials

Ref	Qty	Description	Digikey PN
C1	1	CAP CER 0.1UF 100V X7R 0603	490-3285-1-ND
LED1	1	LED RGB WS2812B W/DVR 4SMD	1528-1104-ND
R1	1	RES SMD 470 OHM 5% 1/4W 0603	RHM470DCT-ND

Manufacturing Notes

This board must be v-scored. Do not panelize with support tabs or mousebites.

Strongly recommended to place
a 100nF capacitor between VCC
and GND between micro and pixels.



