



PRODUCT NAME : NeoPixel 1/4 60 Ring
- 5050 RGBW LED w/ Integrated
Drivers - Warm White - ~3000K

PRICE : Rs 1,699.00
SKU : RM3345



DESCRIPTION

What is better than smart RGB LEDs? Smart RGB+White LEDs! These NeoPixels now have 4 LEDs in them (red, green, blue *and* white) for excellent lighting effects. Round and round and round they go!

This is the NeoPixel 1/4 60 LED Ring in Warm White. [We have a ton of other NeoPixel rings in the store to check out!](#)

With four of these you can make a huge ring with 60 ultra bright smart LED NeoPixels are arranged in a circle with a 6.2" diameter. **Each order comes with just the quarter ring. Four of this item are required to make a large ring. You will have to solder them together as well, so for the full ring of 60 LEDs, buy four and solder them together!**

The rings are 'chainable' - connect the output pin of one to the input pin of another. Use only one microcontroller pin to control as many as you can chain together! Each LED is addressable as the driver chip is inside the LED. Each one has ~18mA constant current drive so the color will be very consistent even if the voltage varies, and no external choke resistors are required making the design slim. Power the whole thing with 5VDC and you're ready to rock.

The NeoPixel is 'split', one half is the RGB you know and love, the other half is a white LED with a yellow phosphor. Unlit, it resembles an egg yolk. Lit up these are insanely bright (like ow my eye hurts) and can be controlled with 8-bit PWM per channel (8 x 4 channels = 32-bit color overall). Great for adding lots of colorful + white dots to your project!

NeoPixel LEDs use 800 KHz protocol so specific timing is required. On NeoPixels, the PWM rate is ~400 Hz, which works well but is noticeable if the LED is moving. [In comparison, DotStars have a 20 KHz PWM rate, so even when moving the LED around, you won't see the pixelation, the blending is very smooth. \(we recommend DotStars if you can use them\)](#)

NeoPixels are 5050-sized LEDs with an embedded microcontroller **inside the LED**. You can set the brightness and color of each R/G/B/W with 8-bit PWM precision (so 32-bit color per pixel). The LEDs are controlled by shift-registers and only 1 digital output pin are required to send data down. The PWM is built into each LED-chip so once you set the color you can stop talking to the ring and it will continue to PWM all the LEDs for you.

[We have a tutorial showing wiring, power usage calculations, example code for usage, etc. for NeoPixel Please check it out!](#) **Please note you will need a NeoPixel library with RGBW support** which is not always available. If you try to control these with a plain 'RGB' NeoPixel library, you'll get very weird results. Our Adafruit NeoPixel library does support RGBW but if you're using something else, just be aware that it might require some hacking.

