



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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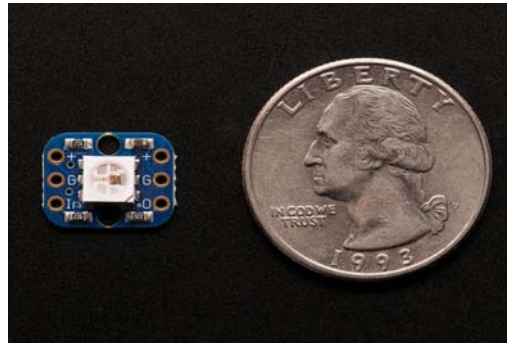
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Breadboard-friendly RGB Smart NeoPixel – Pack of 4

PRODUCT ID: 1312



Description

This is the easiest way possible to add small, bright RGB pixels to your project. We took the same technology from our Flora NeoPixels and made them breadboard friendly, with two rows of 3 x 0.1" spaced header on each side for easy soldering, chaining and breadboarding. These ultra-bright LEDs have a constant-current driver cooked right into the LED package! The pixels are chainable – so you only need 1 pin/wire to control as many LEDs as you like.

These pixels have full 24-bit color ability with PWM taken care of by the controller chip. Since the LED is so bright, you need less current/power to get the effects you want. The driver is constant current so its OK if your battery power changes or fluctuates a little.

Each pixel draws as much as 60mA (all three RGB LEDs on for full brightness white). An Arduino can drive up to 500 pixels at 30 FPS (it will run out of RAM after that). Using ribbon cable you can string these up to 6" apart (after that, you might get power droops and data corruption)

Each order comes with 4 individually controllable pixels. In the photos above we show the pixels with headers soldered on, but the pixels do not come with any headers. You can pick up some in the shop if you need

Our detailed NeoPixel Uberguide has everything you need to use NeoPixels in any shape and size. Including ready-to-go library & example code for the Arduino UNO/Duemilanove/Diecimila, Flora/Micro/Leonardo, Trinket/Gemma, Arduino Due & Arduino Mega/ADK (all versions)

Technical Details

Dimensions: 0.4" x 0.5" x 0.1" / 10.2mm x 12.7mm x 2.5mm

0.5" (12.5mm) diameter circle PCB, 0.1" (2.5mm) total thickness

800 KHz speed protocol

Chainable design

5-9VDC power (can run at 3.5V but color will be dimmed), constant current 18.5mA per LED (~55mA max total per pixel)

NeoPixel EagleCAD PCB files and Fritzing Library available in the NeoPixel tutorial