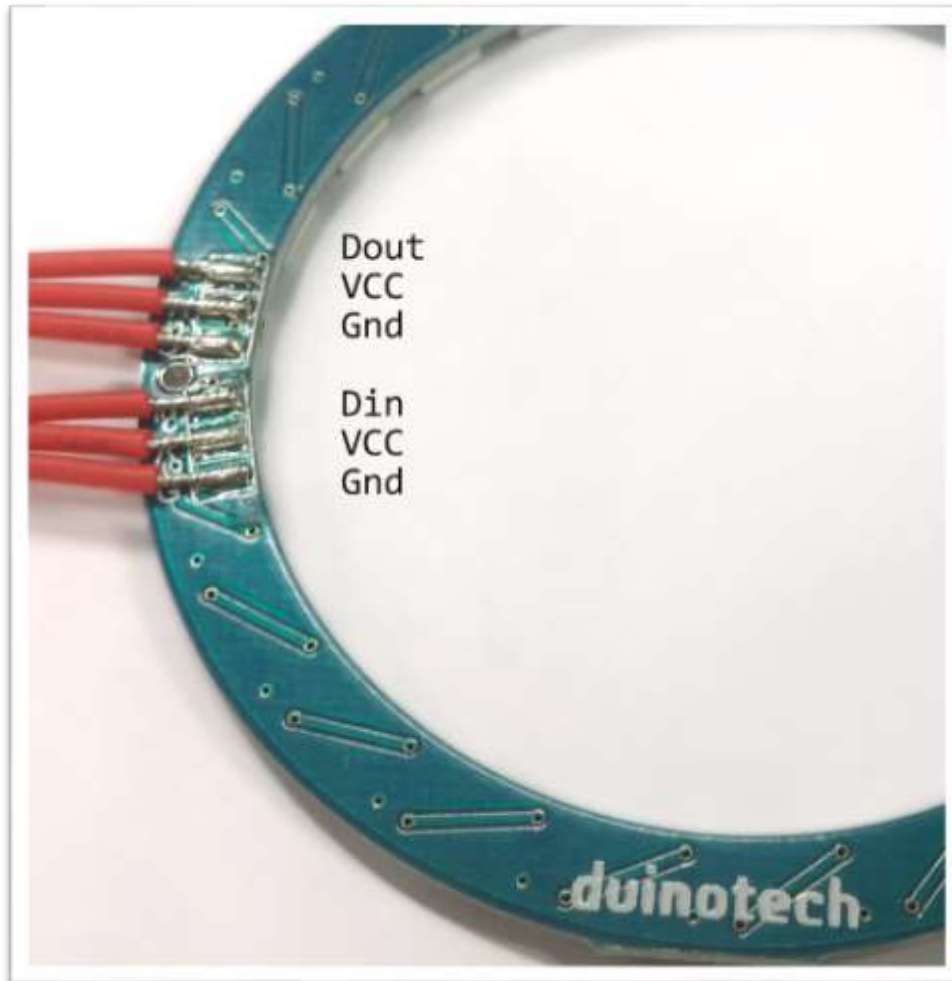


# Circular RGB LED Board

## Overview

The Circular RGB LED Board is a standard 24 RGB “*NeoPixel*” style module. Underneath the board you should find 6 surface mount pads to connect wires or header pins;

- 2× **GND** for *ground* connections
- 2× **VCC** for *5V* connection
- **DI** or **DIN** for *Data Input*
- **DO** or **DOUT** for *Data Output*



Data Output is used for daisy-chaining multiple “*NeoPixel*” modules together, including XC4380 and XC4385; The *Data Output* of the first one in the chain will connect to the *Data Input* of the next.

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# Circular RGB LED Board

## Simple Pinout and code

### UNO Pin Connection XC4385

5V	VCC
GND	GND
9 (or any pin)	Din

```
//Install the NeoPixel library
#include <Adafruit_NeoPixel.h>

// Define what pin the neopixel is attached to and how many pins
// XC4385 has 24 pixels, XC4380 only has 8
#define PIN 9
#define NUMPIXELS 24

// Create the object
Adafruit_NeoPixel pixels(NUMPIXELS, PIN, NEO_GRB + NEO_KHZ800);

void setup()
{
  pixels.begin(); //start the object
}

void loop()
{
  for (long firstPixelHue = 0; firstPixelHue < 5 * 65536; firstPixelHue += 256)
  {
    for (int i = 0; i < pixels.numPixels(); i++)
    { // For each pixel in strip...
      int pixelHue = firstPixelHue + (i * 65536 / pixels.numPixels());
      pixels.setPixelColor(i, pixels.gamma32(pixels.ColorHSV(pixelHue)));
    }
    pixels.show(); // Update strip with new contents
    delay(10); // Pause for a moment
  }
}
```