



Animated LED Lighting, LLCTM

Easy to Use

Designed for Engineers, Hobbyists and Students who want to learn electronics or computer programming

Arduino Nano Shield

Pin to pin compatibility with the entire Arduino Nano family. Easy to learn programming through the Arduino open source programming language. Multiple online examples/libraries through the Arduino website to get up and running quickly. An Arduino community online to post questions for assistance from programmers all over the world.

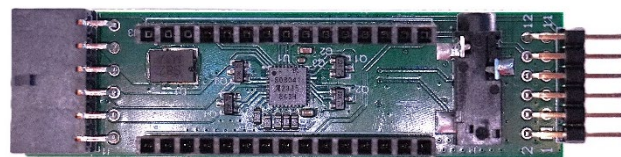
Large and Small

For anyone who wants to dabble in Halloween or Christmas lighting. Animate small items with one board, and easily expandable to cover an entire house.

These boards will give the beginner an easy yet inexpensive way to explore animating their own light show and the opportunity to expand when as they learn.

Animating LED Lighting with Music

Animated LED Lighting is announcing two new products for animating LED light strips to enhance your holiday decorations. The new **A18804** is an Arduino Nano Every plug-n-play shield with 1 Audio input, 8 outputs and designed around the Allegro MicroSystems A80804 linear LED driver. Capable of driving up to 50ft of generic RGBW LED light strips without the use of power injection and simultaneously driving 2000 individually addressable LEDs, all synchronized to music through the Mixed Signal Integration MSGEQ7 7-band graphic equalizer chip with a direct connection to audio input using a standard 3.5mm stereo headphone jack. The audio signals are decoded into 7 different frequency bands and peak detected. The Arduino Nano Every converts those peak values into a Pulse Width Modulated (PWM) signal to drive the independently-configurable channels of the A80804 chip. The remaining analog inputs of the Arduino Nano Every are broken out to a header for connecting motion sensors, switches and serial communications using RX/TX signals. To expand a lighting show, these boards can be connected to our second new product through a 5 pin header, the **P4804 Daisy Chain Board**.



The A18804 Arduino Nano Every Shield

The P4804 is designed around the Allegro MicroSystems A80804 LED driver. With its 4 independently-configurable inputs, multiple daisy chain boards can be connected to a single A18804 board to expand a lighting system.

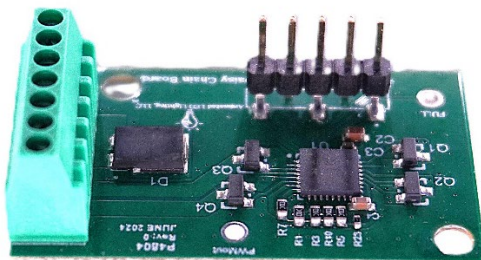
The P4804 can be used independently with a minor resistor change to the board, using an internal PWM generated signal to drive the outputs. The inputs can be tied to switches, motion sensors or any other digital signals through the 5 pin header.

The daisy chain board in the independent mode can be connected to multiple daisy chain boards through a single PWMout pin to further extend a lighting scenario.

A FULL pin is available on the daisy chain board and can be used to instantaneously drive all outputs to full power, returning to normal operation when the signal is removed from the full pin.

These products are only available at:

www.animatedledlighting.com



The P4804 Daisy Chain Board