

Animate LED Lighting Simple System

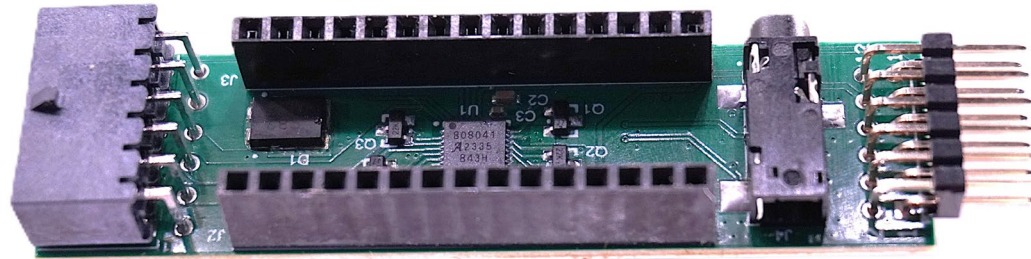
- This document gives a basic component list for the most basic, simple system for using our A18804 Audio to LED converter board. For more information, look on our website at www.animatedledlighting.com or e-mail info@animatedledlighting.com



Animated LED Lighting, LLCTM

Controllers

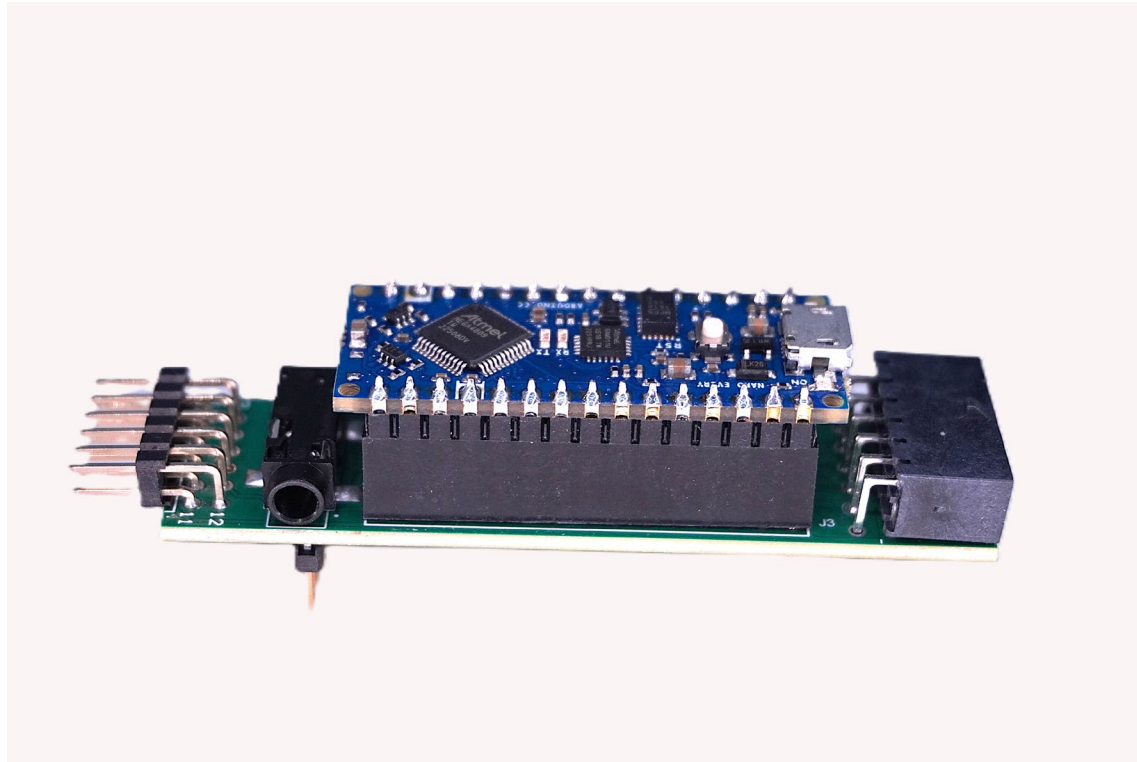
The A18804 Audio to LED converter board has the capability of running standard RGB+W LED lights strips and Individually addressable LED light strips.



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Micro-controller

One micro-controller is used as the brains of the system. Chose the Arduino Nano Every due to its small design, large memory and its ease of programming. The photo below shows the completed assembly of the Arduino and the A18804 Audio to LED converter



Standard RGBW LEDs

5m RGB+W LED Strip Light - Color-Changing LED Tape Light - 12V/24V - IP20 - Warm White 3000K - 196.9in (16.40ft)



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Power Supply

For a simple system with only one RGB+W light strip, a 12Vdc power supply capable of suppling up to 32Watts of power is needed. (A simple 9V battery will power this system for between 4 to 8 hours.)





Image shown is a representation only. Exact specifications should be obtained from the product data sheet.

L6R36-120

DigiKey Part Number	364-1282-ND
Manufacturer	Tri-Mag, LLC
Manufacturer Product Number	L6R36-120
Description	AC/DC WALL MOUNT ADAPTER 12V 36W
Manufacturer Standard Lead Time	52 Weeks
Customer Reference	<input type="text"/>
Detailed Description	12V 36 W AC/DC External Wall Mount (Class II) Adapter Fixed Blade Input
Datasheet	 Datasheet



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Generic Parts List

This is the generic parts list used to create a simple LED lightshow using a single RGB+W LED light strip. This only includes what is needed to run the LEDs. You can expand on this system to make larger and more permanent shows.

Animated LED Lighting, LLC Generic Parts list for a simple system						
<u>Line Item</u>	<u>Qty</u>	<u>Description</u>	<u>Cost/unit</u>	<u>Total Cost</u>	<u>Vendor</u>	<u>Vendor Part number</u>
1	1	Arduino Nano Every	14	14	Animated LED Lighting	RDN-NN-VRY-WTH
2	1	A18804	39.99	39.99	Animated LED Lighting	188-MSC-LED-LGH
3	1	LED Strips RGBW	72.99	72.99	Super Bright LED	STN-E30K80-A6A-12B5M-12V
4	1	Power Supply 12V 72W	8.47	8.47	Tri-Mag, LLC	L6R36-120
		Total Cost		135.45		