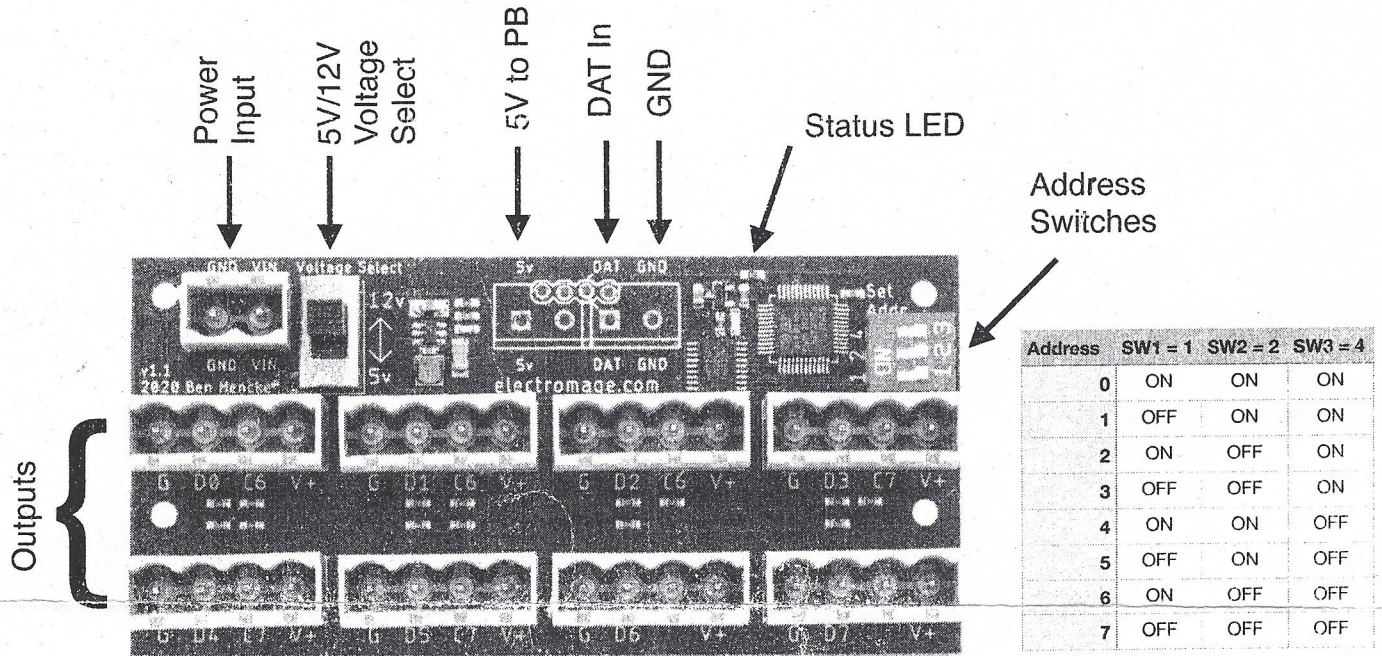




# ElectroMage

## Pro 5-12V 8x WS2812/ APA102 LED Driver



There are two input connection options. The driver board has both a 0.1" and a 0.2" header with the same electrical connections. This allows standard 0.1" pin headers or 5mm screw terminals. The board may also be soldered directly to Pixelblaze.

The voltage select toggle switch can bypass the 12V to 5V converter if a 5V power supply is used. **IMPORTANT:** do not switch this to 5V when a 12V power supply is used! The connectors are rated for 15A and power is supplied to each output.

To use with Pixelblaze, change the LED type to "Pixelblaze Output Expander" - then click on "Add Board" for each connected expander board. The interface will let you set up each channel's type, start index, pixel count, and color order. A count of zero effectively disables that channel.

APA102/SK9822 type LEDs need a clock signal to work. Channel 6 can be used as a clock source for CH0, CH1, and CH2 and is internally routed for these channels. Channel 7 can be used as a clock source for CH3, CH4, and CH5. Up to 6 APA102/SK9822 type channels can be driven this way on CH0-CH5.

When not used as a clock source, CH6 and CH7 can be used for WS2812/SK6812 type LEDs, supporting up to 8 channels.

Each board can be set up with a unique address by toggling the address micro switches. Up to 8 boards with addresses 0-7 are supported. If data is detected with the set address, the status LED will light.

When wiring up multiple boards, they all share the same data input from Pixelblaze and GND reference. Only one 5V supply should be connected to Pixelblaze.