



The the screw terminals of the Common Bus are connected together. The Common Bus provides a convenient access point for Positive Voltage Connections. The Common Bus is NOT Connected to the rest of the circuit.

This Controller has 16 Channels, each capable of controlling the Brightness of High-Power LEDs or Incandescent Lights. Each Channel Controls Brightness by Switching the Ground of the Light at High Speed. Connect the Blue labels to the GROUND of your Light. Connect the GROUND of your Power Supply to the GND labels as needed. The voltage of your power supply connects to the other side of your light. See Diagram at Left. For DC Light Dimming Applications ONLY!

LEDs Change Brightness as Output Levels are Changed. Each Channel has 4096 Levels (12-Bit) of Brightness Available

All GND connections are shared on this controller.

Address Jumper  
Up to 62 Controllers  
Supported per I²C Port.

Power LED

2.1mm Power Jack  
12V DC (Center Positive)

12V DC Power Connector

Particle.io Electron Port

I²C Output to Next Device

Revision A Boards have Channels 13 and 14 Transposed. Please see the tags on this document for proper labeling.