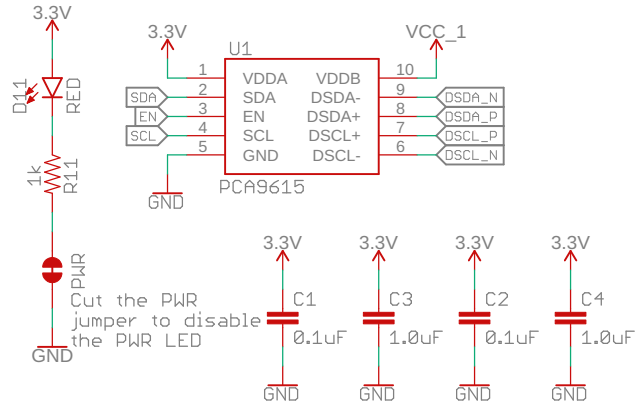
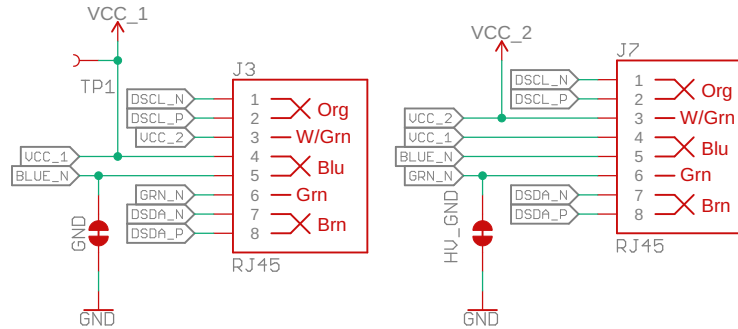


PCA9615 Differential I2C

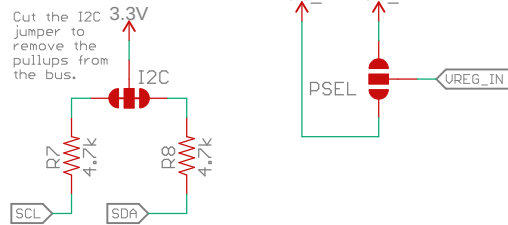
VIN: 3.0-5.5V



RJ-45 Connectors



Jumpers



Depending on load and distance requirements, there are several different ways to power the Midpoint/Endpoint combo.

The default option powers the entire system using 3.3V, in this configuration, the BP jumper is closed and both sides of the PSEL jumper are open.

To power the VCC_1 rail with 5V (The PCA9615 operates better at this voltage), the BP jumper must be opened. Then close the "1" side of the PSEL jumper. Also ensure that 5V is connected on the VCC_1 pin on the Qwiic Endpoint.

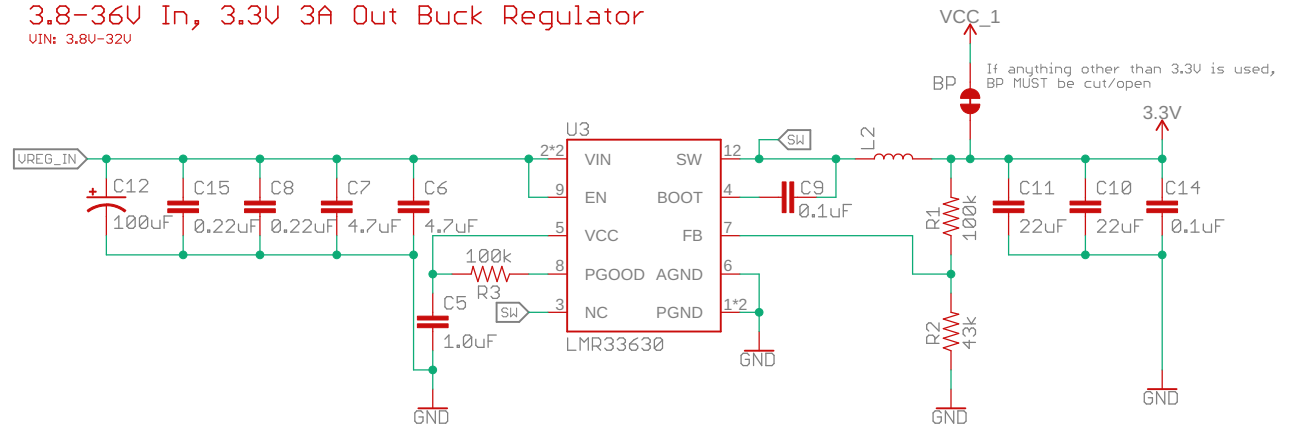
If many devices need to be powered, it is possible to send up to 36V over the green pair. To do this, connect 36V and ground to the Qwiic Endpoint. Also make sure that the BP jumper is cut/open. Make sure the 1 side of the PSEL jumper is open and close the 2 side of the PSEL jumper.

Qwiic Connectors

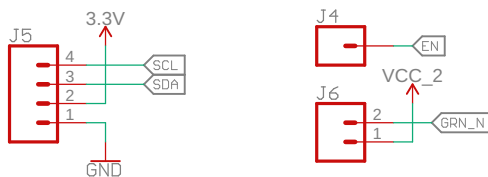


3.8-36V In, 3.3V 3A Out Buck Regulator

VIN: 3.8V-32V



Headers



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TITLE: SparkFun_QwiicBus-Midpoint

Design by: Andy England
Based off of design by: Joel Bartlett

REV:
v13

Date: 2/19/2021 9:50 AM

Sheet: 1/1