3.3V

IN_LED   INT

R1 1k

D1 RED   Power

GND

VOUT

OUT_LED   INT

R2 1k

D2 GREEN

GND

3.3V   3.3V   3.3V   U2

C2   C1   VCC   SDA   7   SDA
10uF   0.1uF   SCL   6   SCL
                               GPIO0 1   GPIO0
                               GPIO1 2   GPIO1
                               GPIO2 3   GPIO2
                    GND   GPIO3 5
GND   GND   GND
                    PCA9536

At power on, the
PCA9536 pins are
inputs with weak
(100K) pullup.

7-bit Unshifted I2C Address: 0x41

3.3V

Clear Jumper to remove
I2C Pull-ups from bus

I2C

R3 2.2k   R4 2.2k

SDA   SCL

3.3V   VOUT   VOUT

Q1
20V/4.2A/52mΩ/1.4W   C3
                      0.1uF
U1G1   GND
GPIO0   2   4   R5
                       1k
74HC1G04

3.3V

GPIO1   J5   GPIO2   J6

3.3V   J1   VOUT   J3
SCL   4   SCL   SCL   4   SCL
SDA   3   SDA   SDA   3   SDA
       2   VCC   2   VCC
       1   GND   1   GND
GND   GND

U1G2
           5   VCC
74HC1G04
           3   VEE

GND

3.3V   J2   VOUT   J4
SCL   4   SCL   SCL   4   SCL
SDA   3   SDA   SDA   3   SDA
       2   VCC   2   VCC
       1   GND   1   GND
GND   PTH   GND   PTH

IN   OUT

SPARK X

open hardware

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TITLE: Qwiic Power Switch

Design by: Paul Clark
Based on the Qwiic RGB by N. Seidle

REV:
X01

Date: 23/04/2020 13:53   Sheet: 1/1