Power

+5V

J4
1
2
Conn_01x02_Female
GND

J3
Barrel_Jack_MountingPin
+5V
1
2
MP
GND

JP2
+5V   Jumper_2_Open   +5VP
1   2

Pi Connector

+3.3V   +5VP

J1
Conn_02x10_Odd_Even
1   2
3   4
5   6
7   8
9   10
11 12
13 14
15 16
17 18
19 20
GND

Data

GND

Level Shifter

C2   +5VP +3.3V   C3
0.1uF   0.1uF
GND   GND

R1
150
DIN   A   VCCA VCCB B   4   U1   Data
3   2 1   SN74LVC1T45DBV
JP1   5   DIR   GND
Jumper_3_Open
2
DOUT   GND
JP3
Jumper_2_Open
DOI
1

Protection   Reverse Voltage Protection

GND

IC2
LM66200DRLR
1   GND_1   GND_2   5
2   VOUT_1   VIN2   6
+5VL
3   VIN1   VOUT_2 7
+5V
4   ON   ST   8

GND

Over Voltage and Current Protection

+5VL

R3
1k   IC3
                TPS259570DSGR
R4   1   DVDT   GND_1   8   GND
296,3k   2   EN/UVLO ILM   7
        +5VL   3   IN_1   QOD   6
C5   4   IN_2   OUT   5   +5VP
0.1uF
GND   GND   GND_2
                             9
                                          R2
                                          953
                             GND   GND

Digital LED

D1   +5VP
WS2812B
DIN   4   DIN   VDD
                  DOUT DOI
        3   VSS
            RGB
                              0.1uF
                              C1
GND

GND

J2
Conn_01x03_Male   +5V
1
2   DOUT   C4
3   10uF

J5
Conn_01x03_Male   +5V
1
2   DOUT
3
GND

GND

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File: Digital LED Shield.kicad_sch
Title:
Size: A4   Date: **Rev:**
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