Power

+5V

J4
1
2
Conn_01x02_Female
GND

J3
Barrel_Jack_MountingPin
+5V
1
2
GND
MP1

+5V   JP2   +5VD
        Jumper_2_Open
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
Data 19 20
GND
GND

Level Shifter

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

                    VCCA VCCB
R1
150
DIN   3   A   B   4   U1   Data
              3   SN74LVC1T45DBV
JP1   5   DIR
Jumper_3_Bridged12
              2   GND
DOUT
              GND

Protection

GND

IC2
LM66200DRLR
+5VP
1 GND_1   GND_2 5
2 VOUT_1   VIN2   6
3 VIN1   VOUT_2 7
+5VD
4 ON   ST   8
GND

+5VP   R2
        1k
R3
10k
IC1
LM431BCM3X_NOPB
1 CATHODE   ANODE 3
2 REFERENCE
GND
R4
10k
GND

Digital LED

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

J2   +5V   J5   +5V
Conn_01x03_Male   Conn_01x03_Male
1   1
2   DOUT   C4   2   DOUT
3   10uF   3
GND   GND