INPUT_VDC SR240
LM2575-3.3
VIN FB
ON/OFF OUT
GND
100n 470uF
+3.3V
470uH
PWR
1k
SR240
100n 10n 10u 1000uF

UDN2981
VS
OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8
IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8
OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8
GND
Fuse
OUPUTS

A1..A8
OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8
1k 1k 1k 1k 1k 1k 1k 1k

Black_pill_left1 Black_pill_right1
+3.3V
OUT3 OUT2 OUT1 MOSI MISO SCK CS RST
10k
OUT4 OUT5 OUT6 OUT7 OUT8
+3.3V

ULN2803A
COM
OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8
I1 I2 I3 I4 I5 I6 I7 I8
O1 O2 O3 O4 O5 O6 O7 O8
GND
Fuse
OUPUTS_OC

W5500_left1 W5500_right1
+3.3V
MOSI SCK CS
RST MISO