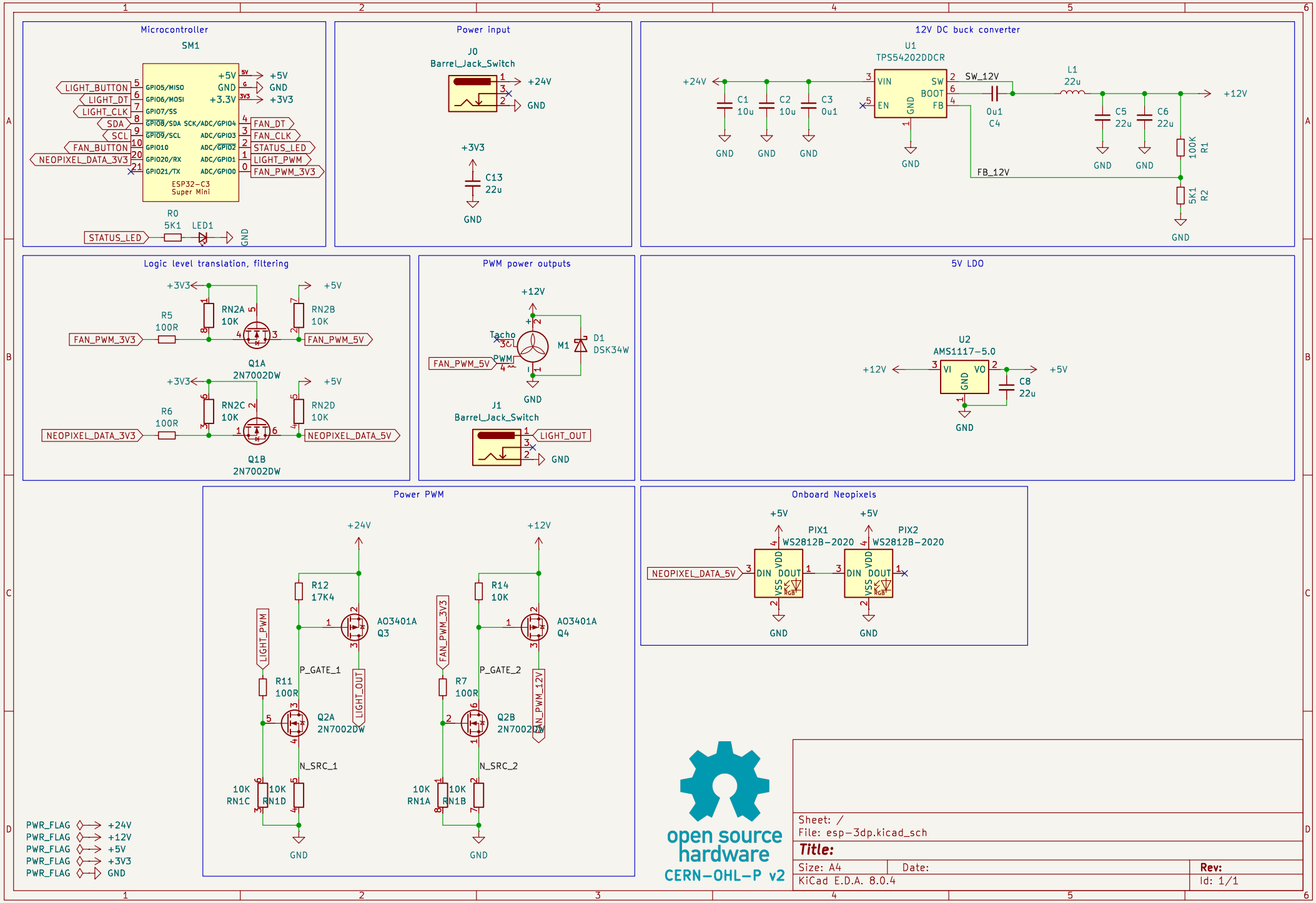
Microcontroller
SM1
ESP32-C3 Super Mini
LIGHT_BUTTON
LIGHT_DT
LIGHT_CLK
SDA
SCL
FAN_BUTTON
NEOPIXEL_DATA_3V3
FAN_DT
FAN_CLK
STATUS_LED
LIGHT_PWM
FAN_PWM_3V3
R0
5K1
LED1
Power input
J0
Barrel_Jack_Switch
+24V
GND
+3V3
C13
22u
12V DC buck converter
U1
TPS54202DDCR
VIN
EN
SW
BOOT
FB
SW_12V
L1
22u
C1
10u
C2
10u
C3
0u1
0u1
C4
C5
22u
C6
22u
+12V
100K
R1
5K1
R2
FB_12V
Logic level translation, filtering
R5
100R
RN2A
10K
RN2B
10K
Q1A
2N7002DW
R6
100R
RN2C
10K
RN2D
10K
Q1B
2N7002DW
FAN_PWM_5V
NEOPIXEL_DATA_5V
PWM power outputs
Tacho
PWM
M1
D1
DSK34W
J1
Barrel_Jack_Switch
LIGHT_OUT
5V LDO
U2
AMS1117-5.0
VI
VO
C8
22u
Power PWM
R12
17K4
AO3401A
Q3
P_GATE_1
R11
100R
Q2A
2N7002DW
N_SRC_1
10K
RN1C
10K
RN1D
R14
10K
AO3401A
Q4
P_GATE_2
R7
100R
Q2B
2N7002DW
N_SRC_2
10K
RN1A
10K
RN1B
Onboard Neopixels
PIX1
WS2812B-2020
PIX2
WS2812B-2020
DIN
DOUT
VDD
VSS
PWR_FLAG
open source hardware
CERN-OHL-P v2
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