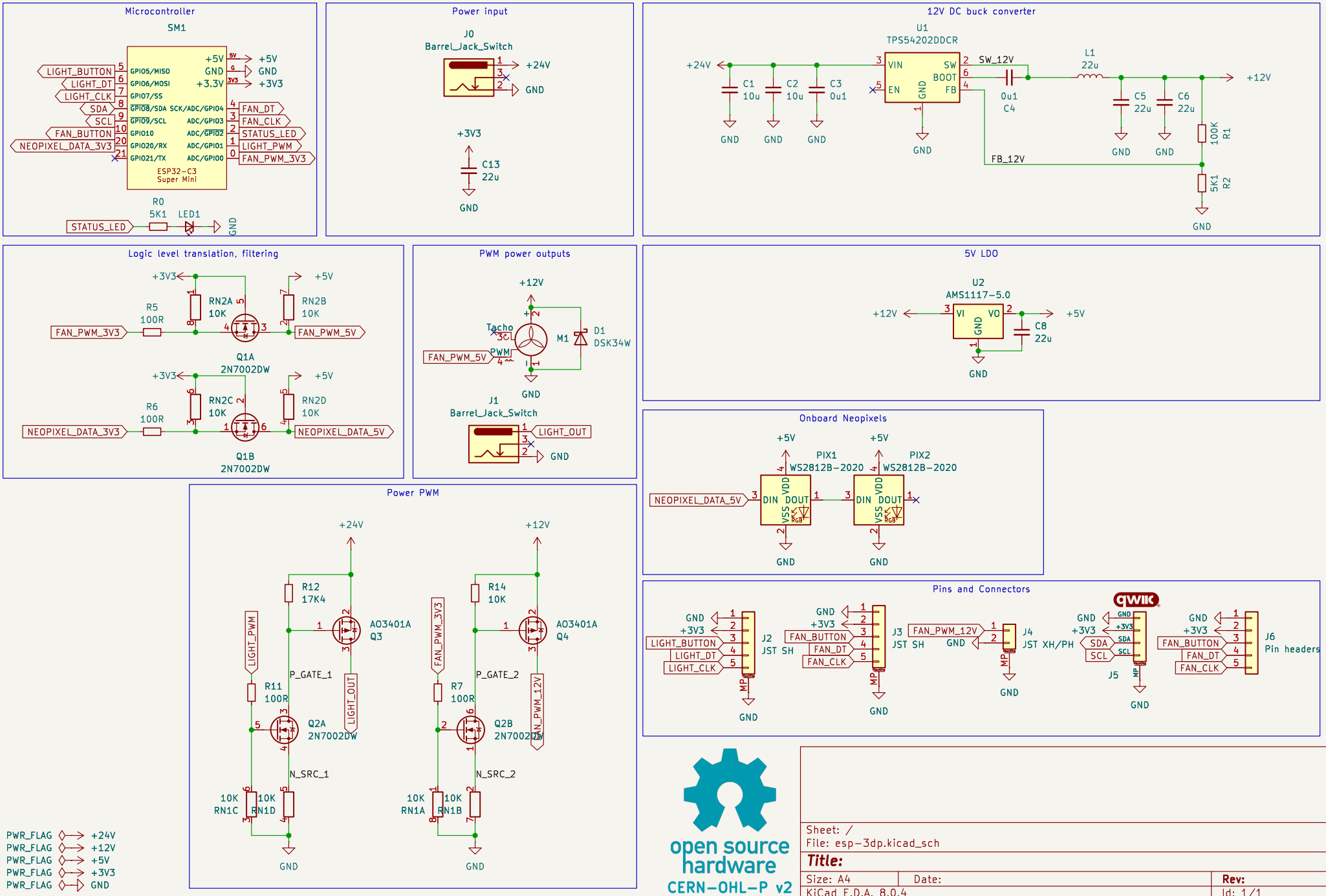
Microcontroller
SM1
ESP32-C3 Super Mini
LIGHT_BUTTON
LIGHT_DT
LIGHT_CLK
SDA
SCL
FAN_BUTTON
NEOPIXEL_DATA_3V3
FAN_DT
FAN_CLK
STATUS_LED
LIGHT_PWM
FAN_PWM_3V3
R0 5K1
LED1
Power input
J0 Barrel_Jack_Switch
+24V
GND
+3V3
C13 22u
12V DC buck converter
U1 TPS54202DDCR
VIN
EN
SW
BOOT
FB
SW_12V
L1 22u
C1 10u
C2 10u
C3 0u1
0u1 C4
C5 22u
C6 22u
+12V
FB_12V
100K R1
5K1 R2
Logic level translation, filtering
R5 100R
RN2A 10K
RN2B 10K
Q1A 2N7002DW
R6 100R
RN2C 10K
RN2D 10K
Q1B 2N7002DW
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
Onboard Neopixels
PIX1 WS2812B-2020
PIX2 WS2812B-2020
DIN
DOUT
VDD
VSS
Pins and Connectors
J2 JST SH
J3 JST SH
J4 JST XH/PH
J5
J6 Pin headers
FAN_PWM_12V
Power PWM
R12 17K4
AO3401A Q3
R11 100R
Q2A 2N7002DW
P_GATE_1
N_SRC_1
10K RN1C
10K RN1D
R14 10K
AO3401A Q4
R7 100R
Q2B 2N7002DW
P_GATE_2
N_SRC_2
10K RN1A
10K RN1B
PWR_FLAG
open source hardware
CERN-OHL-P v2
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Rev:
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