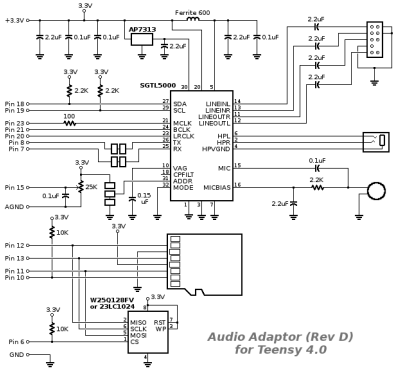
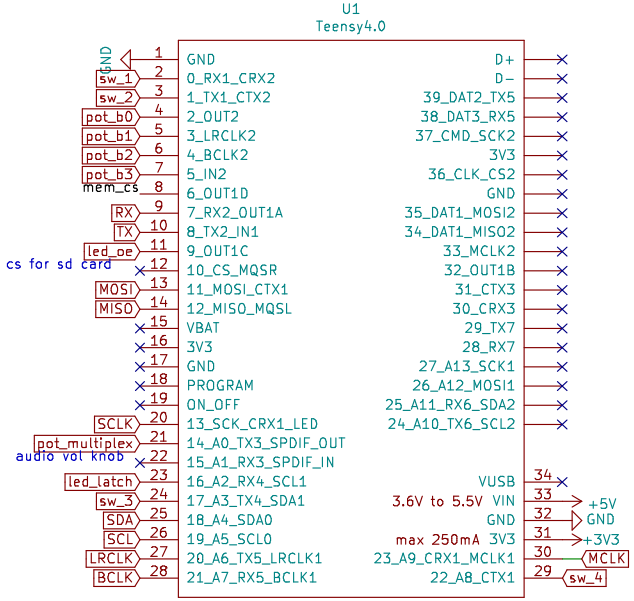
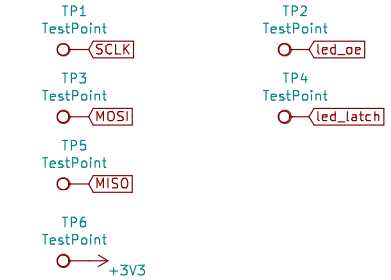


Teensy 4



todo
- try writing code to exercise the chosen peripherals
- check fp of smt headers teensy



Sheet: SGTL audio

Audio

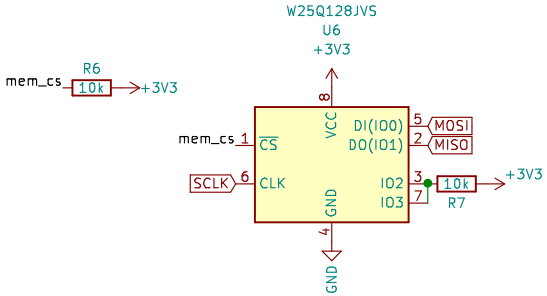
File: SGTL5000.sch

Sheet: pots buttons & LEDs

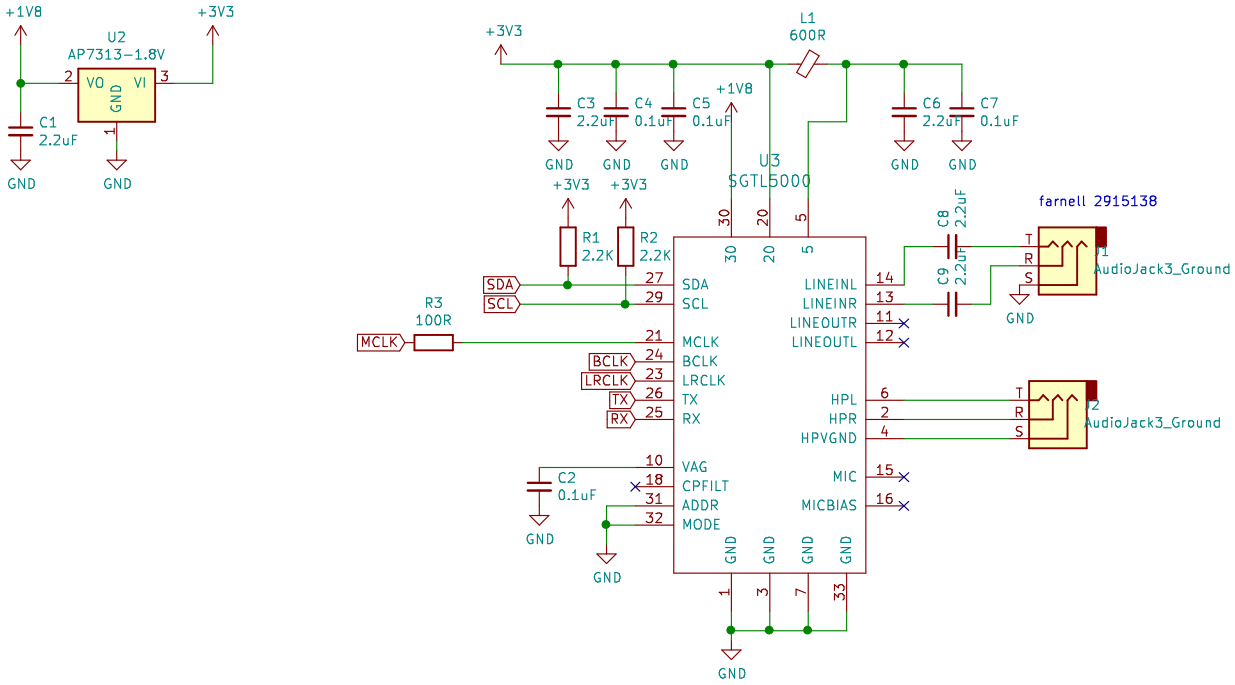
Pots & LEDs

File: pots.sch

FLASH



SGTL5000 audio driver



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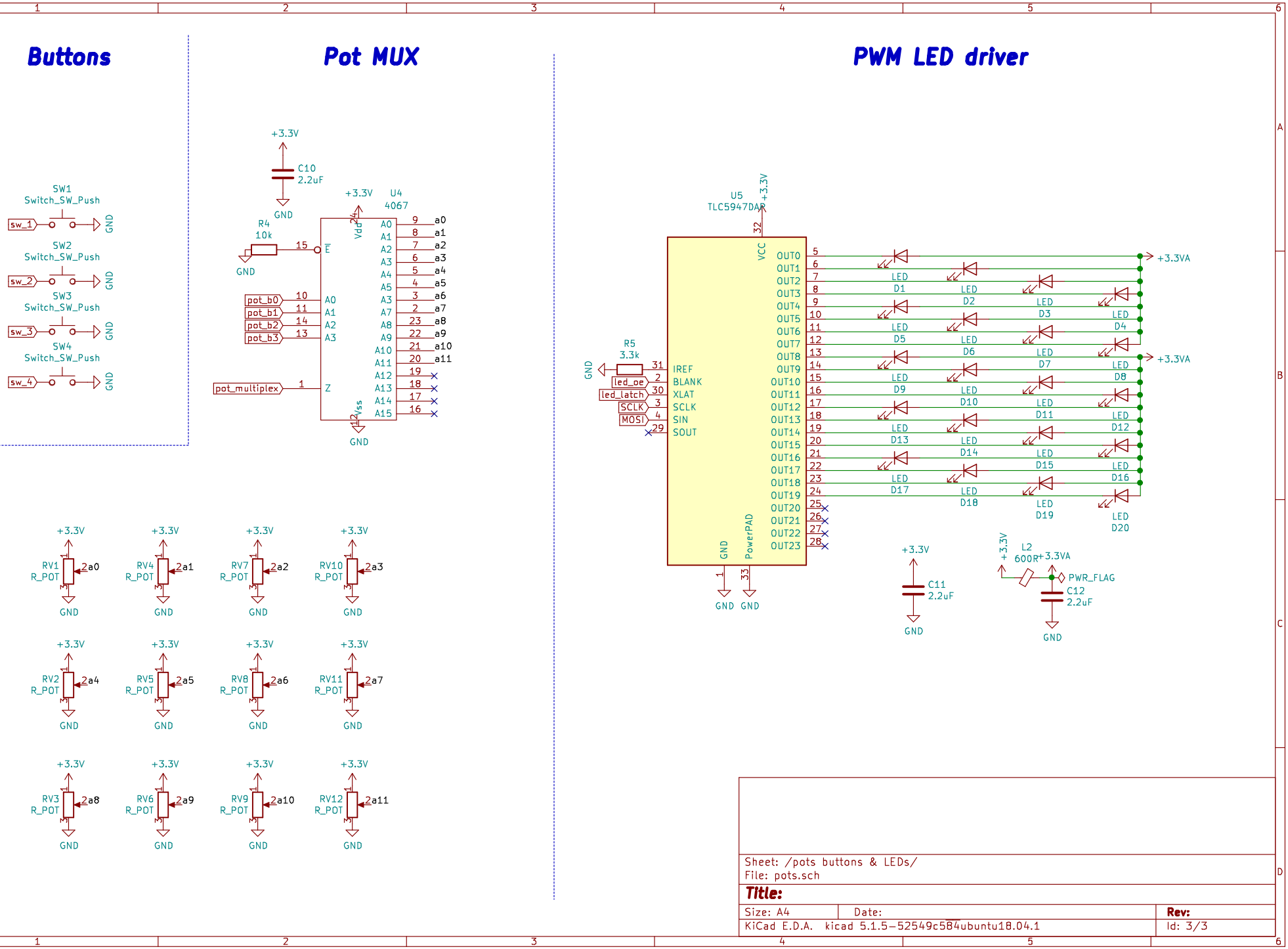
Buttons
SW1
Switch_SW_Push
sw_1
GND
SW2
Switch_SW_Push
sw_2
GND
SW3
Switch_SW_Push
sw_3
GND
SW4
Switch_SW_Push
sw_4
GND
Pot MUX
+3.3V
C10
2.2uF
GND
+3.3V
U4
4067
R4
10k
GND
pot_b0
pot_b1
pot_b2
pot_b3
pot_multiplex
A0
A1
A2
A3
E
Z
Vdd
Vss
a0
a1
a2
a3
a4
a5
a6
a7
a8
a9
a10
a11
RV1
RV2
RV3
RV4
RV5
RV6
RV7
RV8
RV9
RV10
RV11
RV12
R_POT
PWM LED driver
U5
TLC5947DAP
+3.3V
VCC
R5
3.3k
GND
IREF
led_oe
led_latch
SCLK
MOSI
BLANK
XLAT
SCLK
SIN
SOUT
OUT0
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
OUT8
OUT9
OUT10
OUT11
OUT12
OUT13
OUT14
OUT15
OUT16
OUT17
OUT18
OUT19
OUT20
OUT21
OUT22
OUT23
GND
PowerPAD
LED
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
+3.3VA
C11
2.2uF
L2
600R
PWR_FLAG
C12
2.2uF
Sheet: /pots buttons & LEDs/
File: pots.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1
Id: 3/3