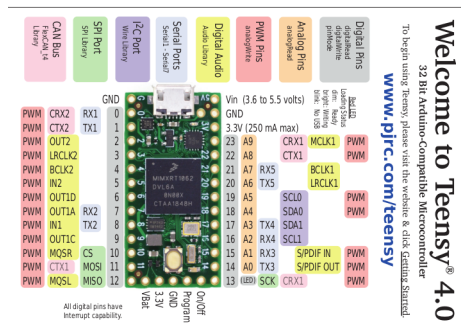
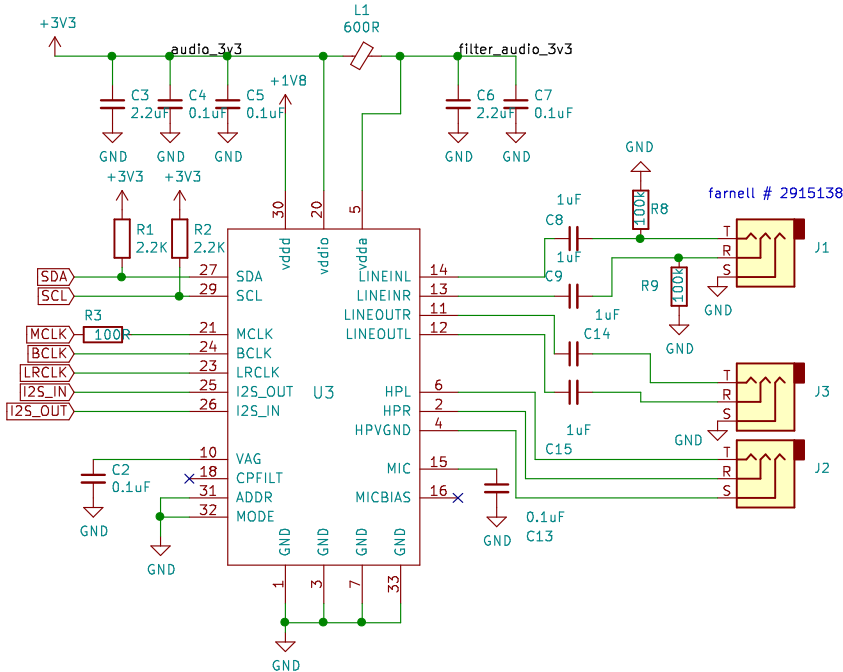
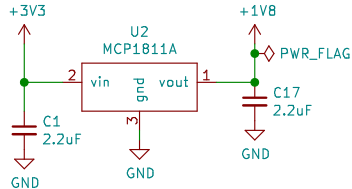


Teensy 4



SGTL5000 audio driver

p17 datasheet says 5mA max



SGTL5000
<https://www.nxp.com/docs/en/data-sheet/SGTL5000.pdf>

mattvonn

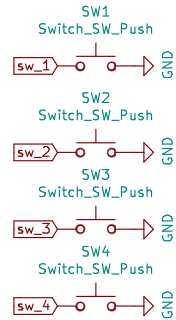
Sheet: /SGTL audio/
File: SGTL5000.sch

Title: teensy-fx

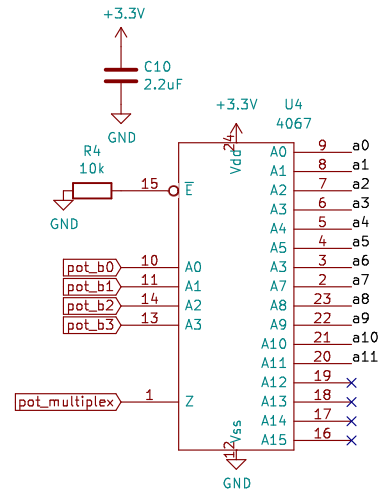
Size: A4	Date: 2020-02-10
KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1	

Rev: v2
Id: 2/3

Buttons

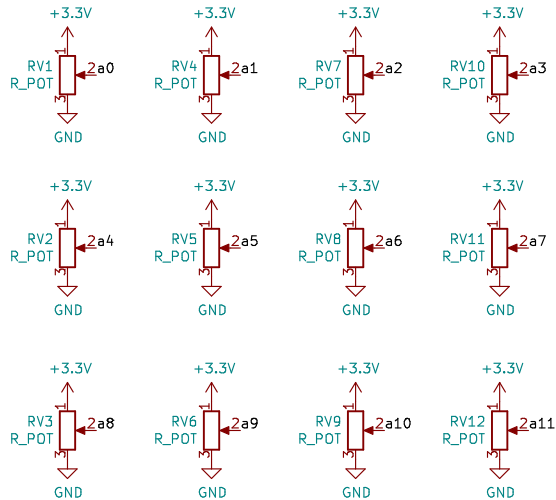
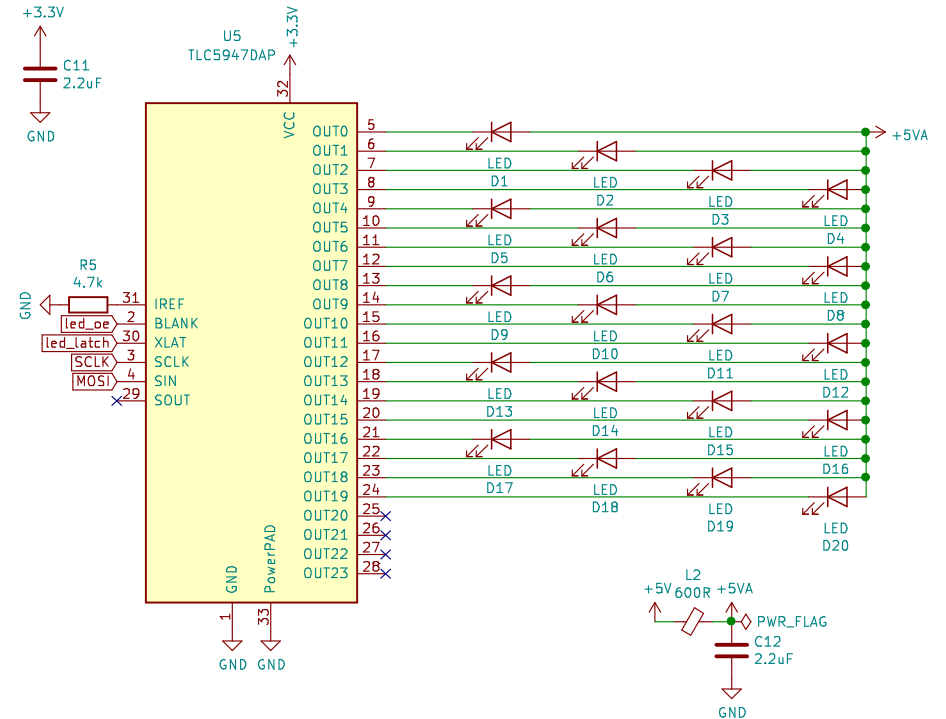


Pot MUX



PWM LED driver

R5 is 5k to set LED current to 10mA
 $V_{LED} > LED\ V_F + 0.4v$



all pots 10k, taper 1b (linear)
 RK09K1130AP5

all pots together = 4mA

mattvenn

Sheet: /pots buttons & LEDs/

File: pots.sch

Title: teensy-fx

Size: A4

Date: 2020-02-10

Rev: v2

KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1

Id: 3/3