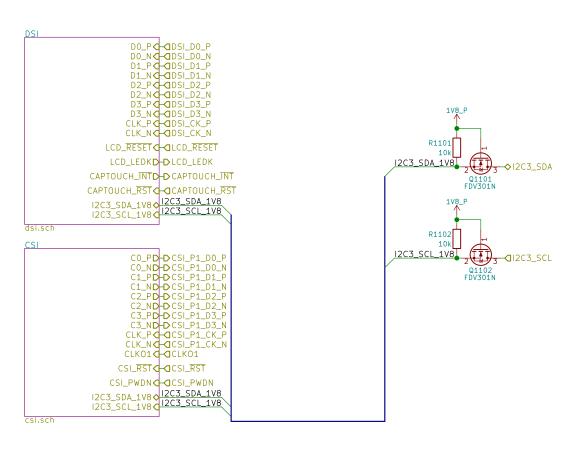
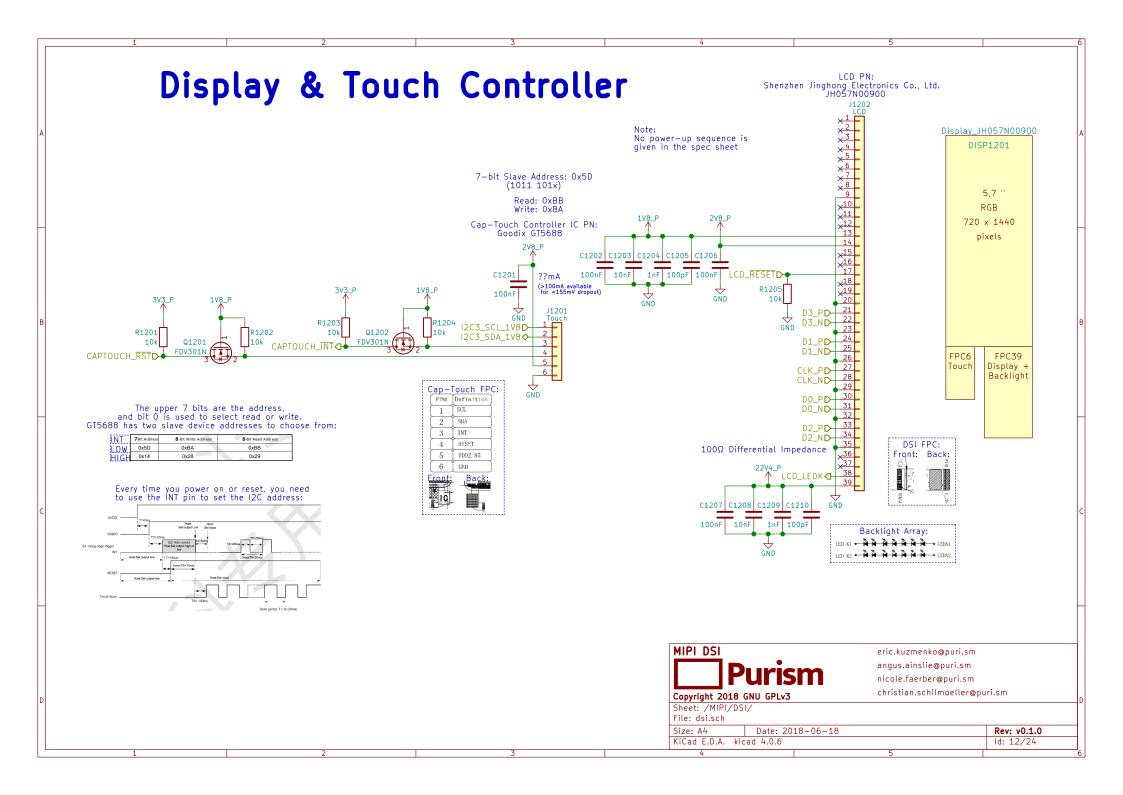
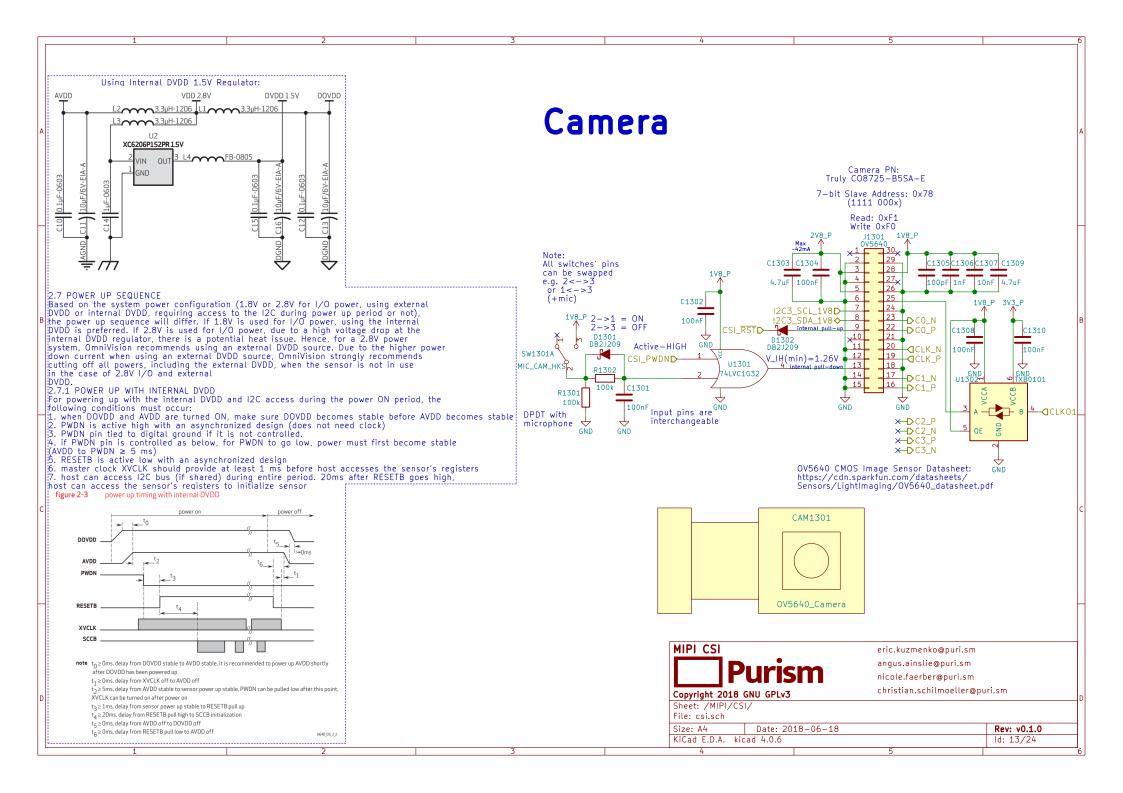


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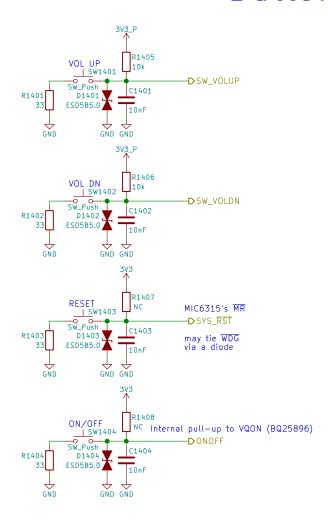


Purism Copyright 2018 GNU GPLv3	eric.kuzmenko@puri.sm angus.ainslie@puri.sm nicole.faerber@puri.sm christian.schilmoeller@puri.sm
Sheet: /MIPI/ File: mipi.sch	
Size: A4 Date: 2018-06-18	Rev: v0.1.0
KiCad E.D.A. kicad 4.0.6	ld: 11/24

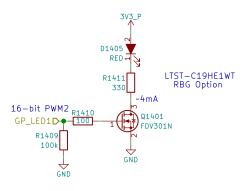




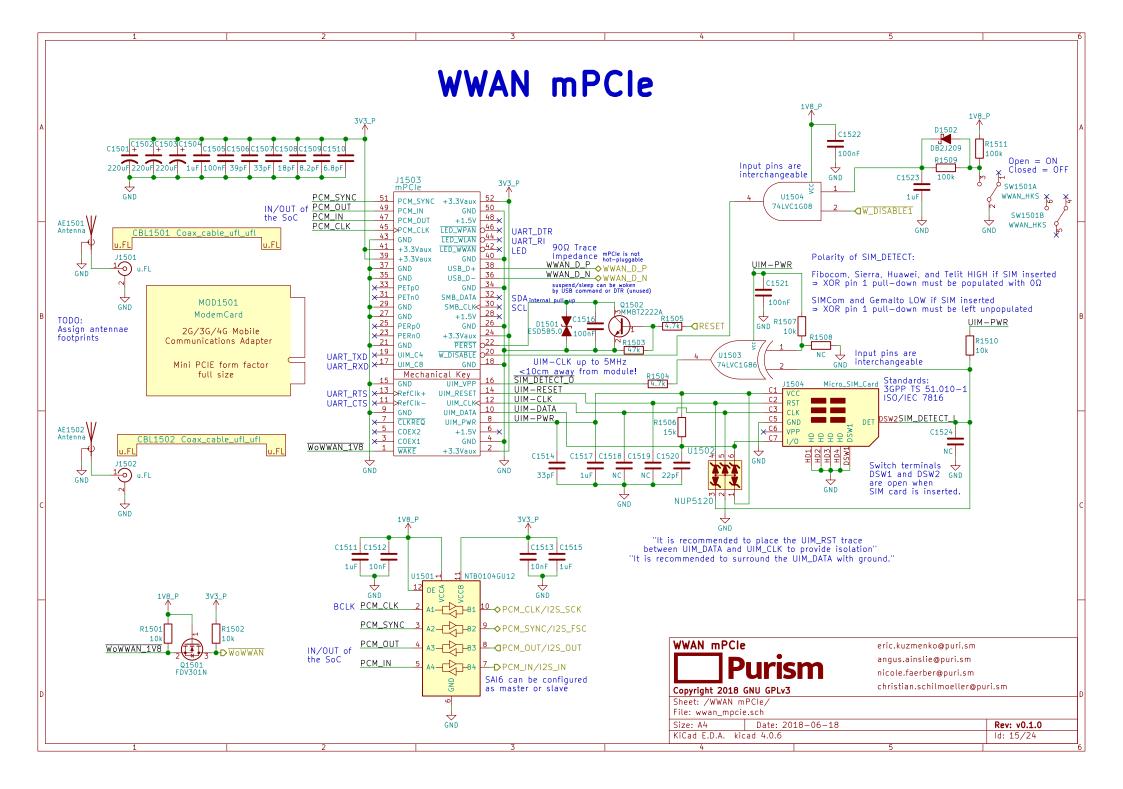
## **Buttons & LED**

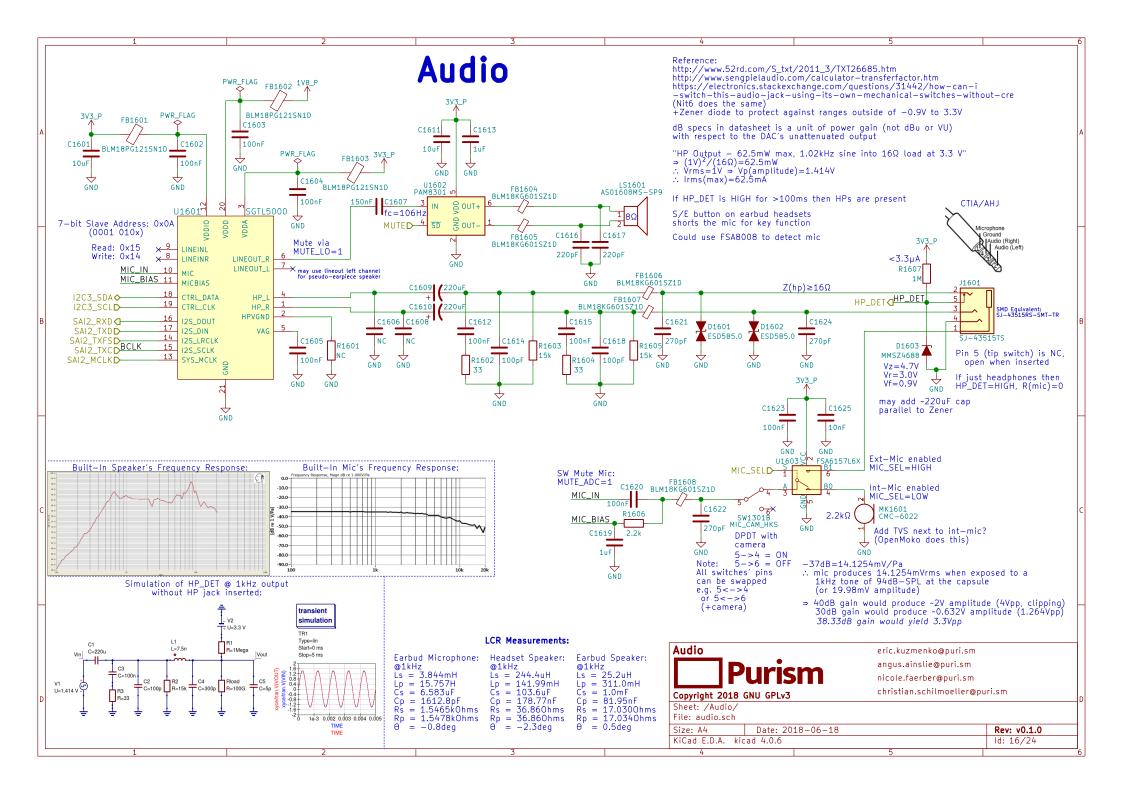


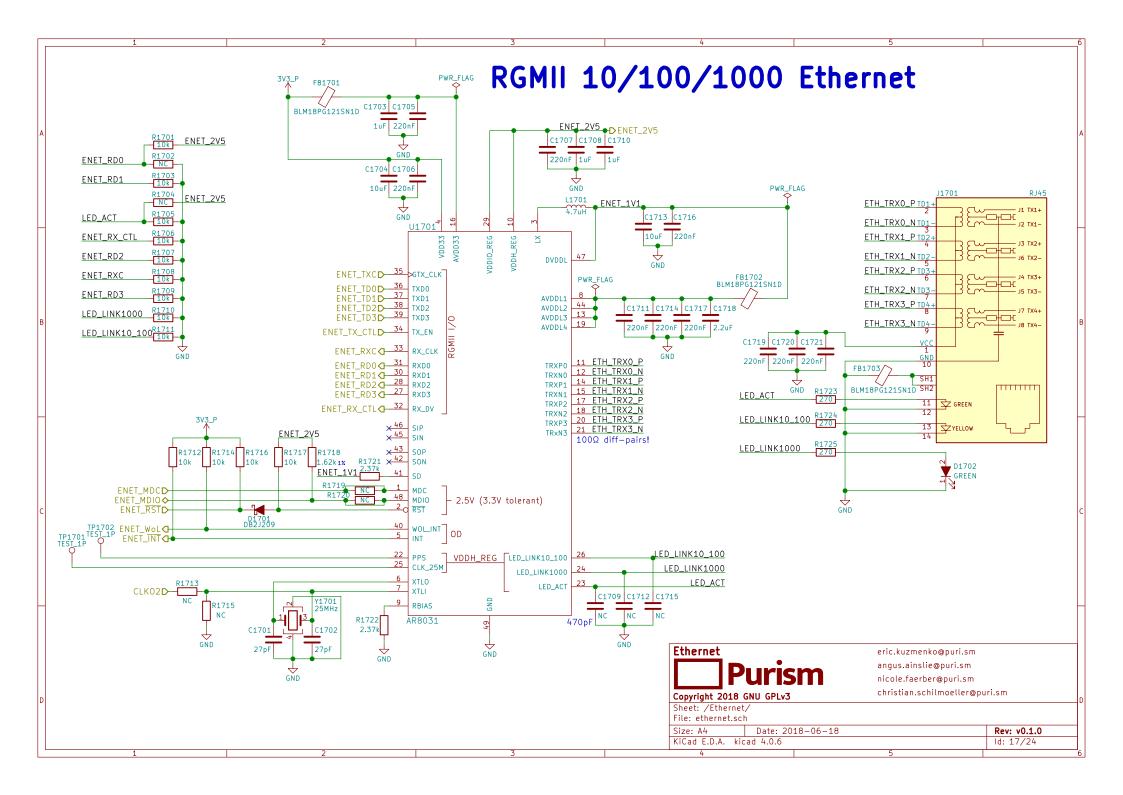
Use PWM2\_PWMSAR to set the compare value (duty cycle)
Use PWM2\_PWMCR[15:4] to set the PRESCALER (frequency)
Use PWM2\_PWMPR to set the top of the counter (frequency)

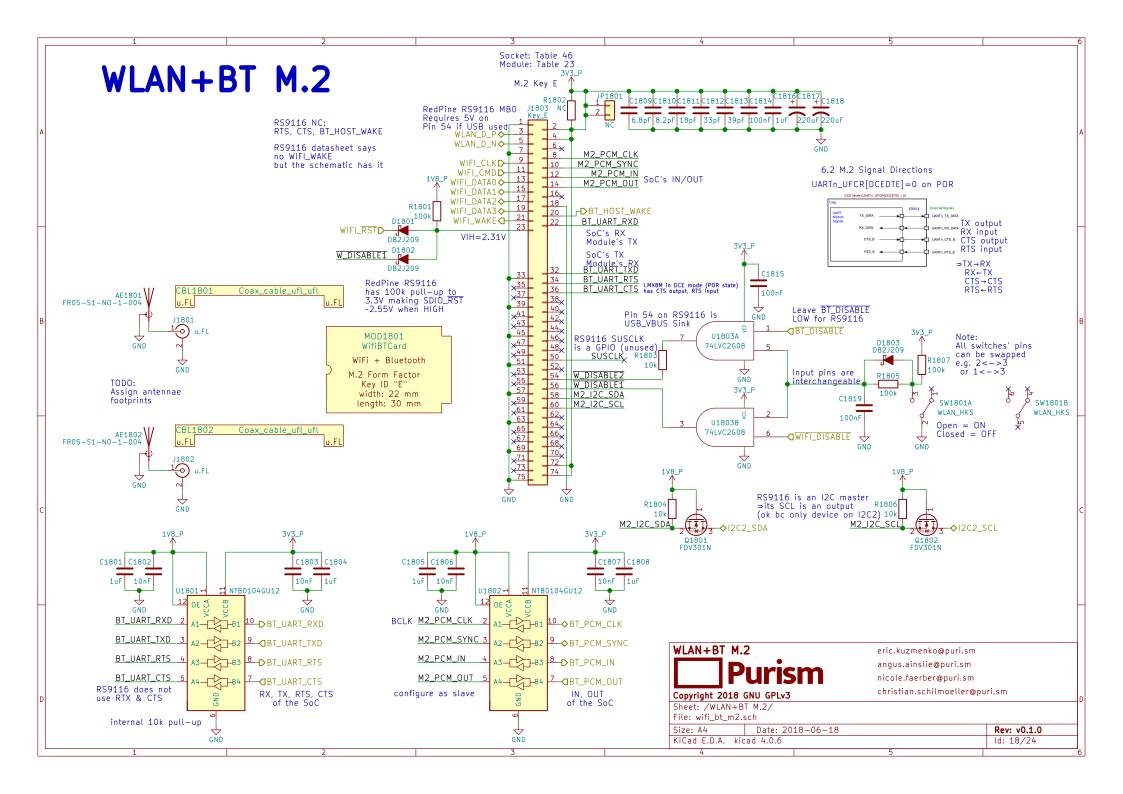








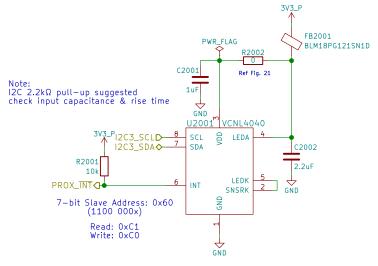




TUSB1046 can be used for DP over USB-C **HDMI** Layout Note: May need swap some signals due to micro—HDMI pinout diff 3V3\_P depending on pin location/routing D1901 DB2J209 F1901  $100\Omega$  diff pairs U1901 PCMF3HDMI2S D1905 DB2J209 HDMI\_Utility HDMI AUX PC-SMD Micro-HDMI Type D Alternative: 0467650301 C1902 C2 HDMI HPD PICOSMDC035S-2 HDMI\_AUX\_N C1903 C1904 A3 HDMI\_CN\_TXO\_P HDMI\_TX0\_P D→ R1910 1.5k R1911 1.5k R1912 J1901 H A4 HDMI\_CN\_TXO\_N 27k HDMI\_TX0\_ND-CMF+ESD A5 HDMI\_CN\_CLK\_P HDMI\_CN\_TX2\_P HDMI\_CLK\_PD A6 HDMI\_CN\_CLK\_N С6 HDMI\_CLK\_ND GND HDMI\_CN\_TX2\_N 83 82 81 R1905 R1903 R1907 HDMI\_CN\_TX1\_P ±1%!!! HDMI\_CN\_TX1\_N HDMI\_CN\_TX0\_P Q1901B Q1902A Q1902B Q1901A NX3020NAKS NX3020NAKS NX3020NAKS X NX3020NAKS HDMI\_CN\_TXO\_N HDMI\_CN\_CLK\_P HDMI\_CN\_CLK\_N HDMI\_CEC ♦ HDMI\_CEC Dual N-Fet annotation HDMI\_Utility must follow text! U1902 PCMF2HDMI2SZ M1HDMI\_CN\_TX2\_P HDMI\_DDC\_SCL\_DHDMI\_DDC\_SCL HDMI\_DDC\_SDA HDMI\_DDC\_SDA HDMI\_TX2\_P D→ A2HDMI\_CN\_TX2\_N HDMI\_TX2\_ND A3HDMI\_CN\_TX1\_P DCDC\_5V\_CN HDMI\_TX1\_PD HDMI\_HPD HDMI\_HPD A4HDMI\_CN\_TX1\_N HDMI\_TX1\_ND CMF+ESD R1902 R1904 R1906 R1908 604 C1905 D1902 D1903 D1904 D1906 R1913 R1914 ESD5B5.0 ESD5B5.0 ESD5B5.0 ESD5B5.0 Q1903A Q1903B Q1904A Q1904B NX3020NAKS NX3020NAKS NX3020NAKS NX3020NAKS GND GND **HDMI** eric.kuzmenko@puri.sm angus.ainslie@puri.sm nicole.faerber@puri.sm christian.schilmoeller@puri.sm Copyright 2018 GNU GPLv3 Sheet: /HDMI/ File: hdmi.sch Size: A4 Date: 2018-06-18 Rev: v0.1.0 KiCad E.D.A. kicad 4.0.6 ld: 19/24

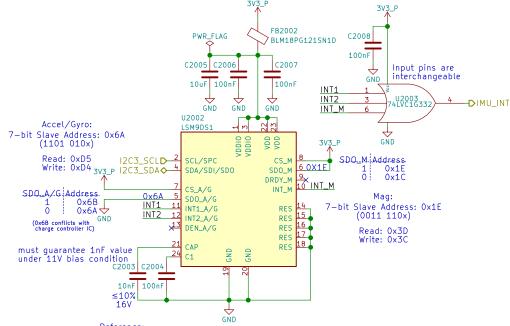
## **Sensors**

### Proximity & Ambient Light

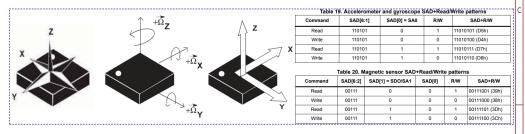


Reference: https://www.vishay.com/docs/84307/designingvcnl4040.pdf http://www.vishay.com/docs/84931/vcnl4040sensorboardfiles.pdf

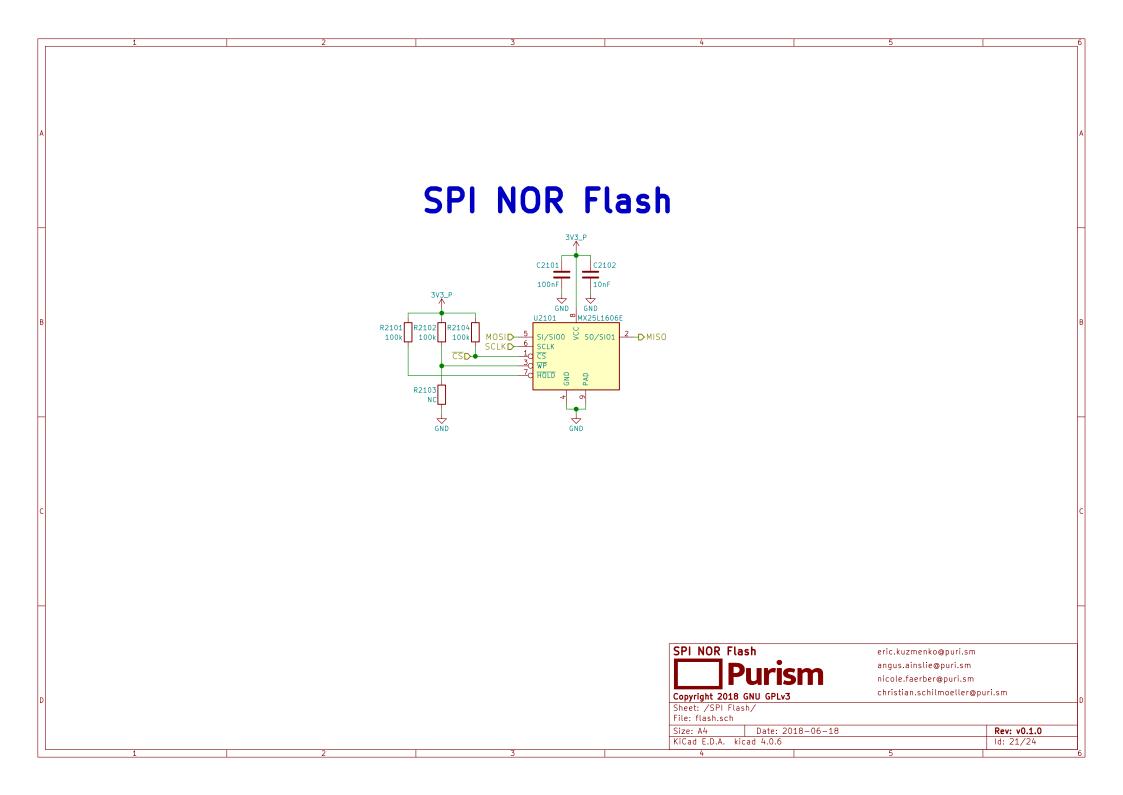
#### 9-Axis IMU



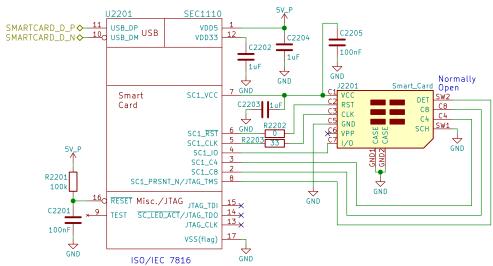
Reference: http://www.st.com/en/evaluation—tools/steval—mki159v1.html





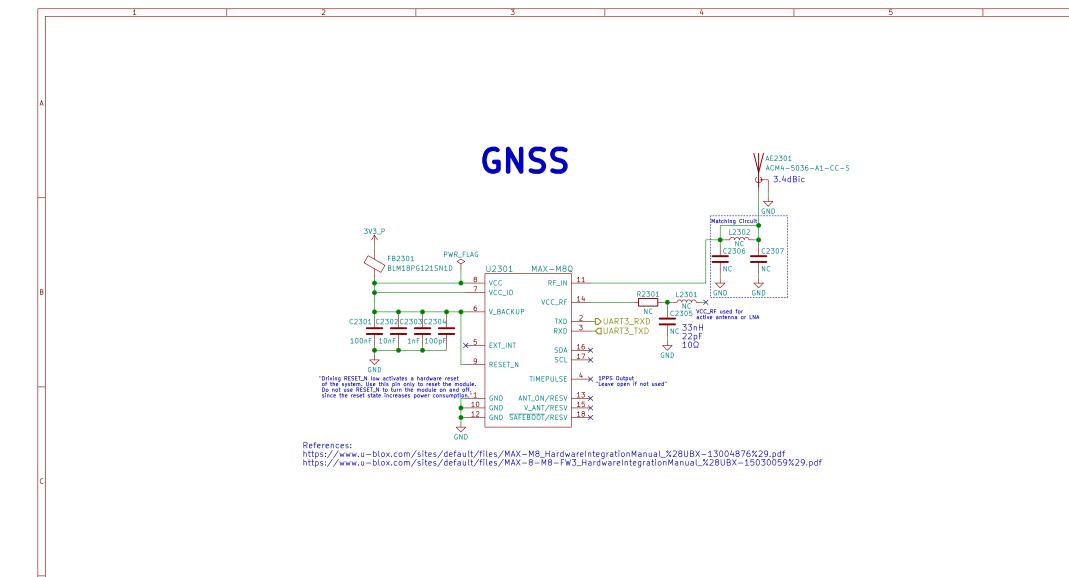


## **Smart Card**



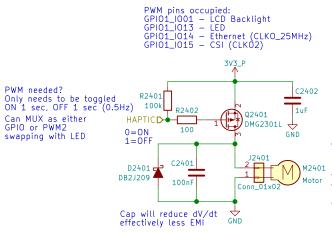
Reference: http://www.microchip.com/DevelopmentTools/ProductDetails.aspx?PartN0=EVB-SEC1110







# **Haptic Motor**



When the motor is off both terminals are at GND Motor will have wire leads with a 2-pin Molex or Boom Precision connector installed (by request) Metal housing is floating thick adhesive layer underneath (not connected to either pin)

Haptic/Vibration Motor

PULISM

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Sheet: /Haptic Motor/
File: haptic.sch

Size: A4 Date: 2018-06-18

KiCad E.D.A. kicad 4.0.6

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Rev: v0.1.0

Id: 24/24