



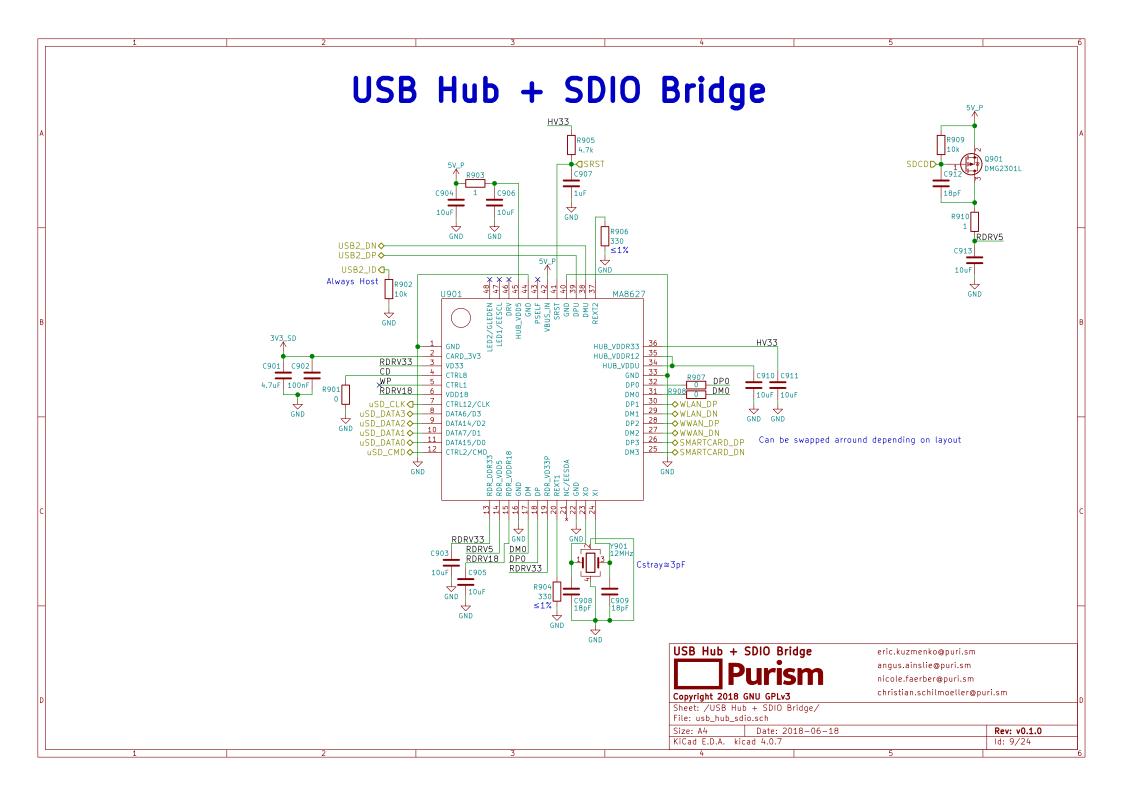


imx6qdl-mtp.dtsi#L351







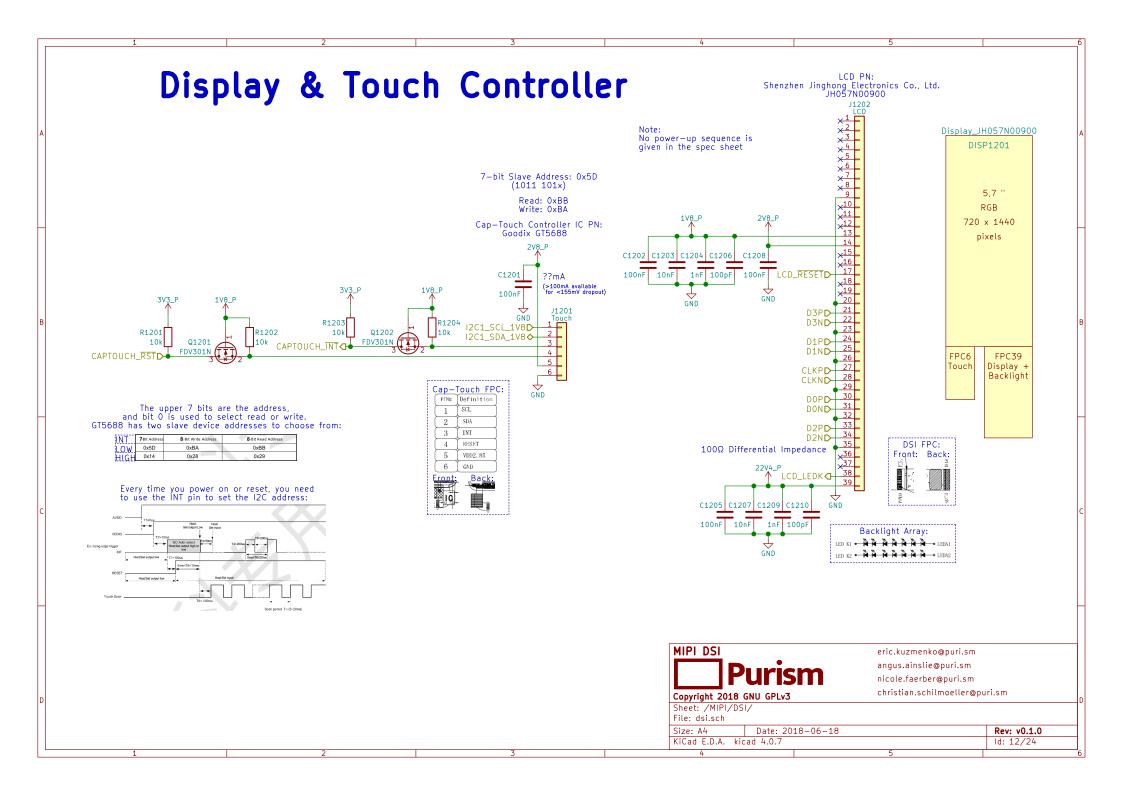


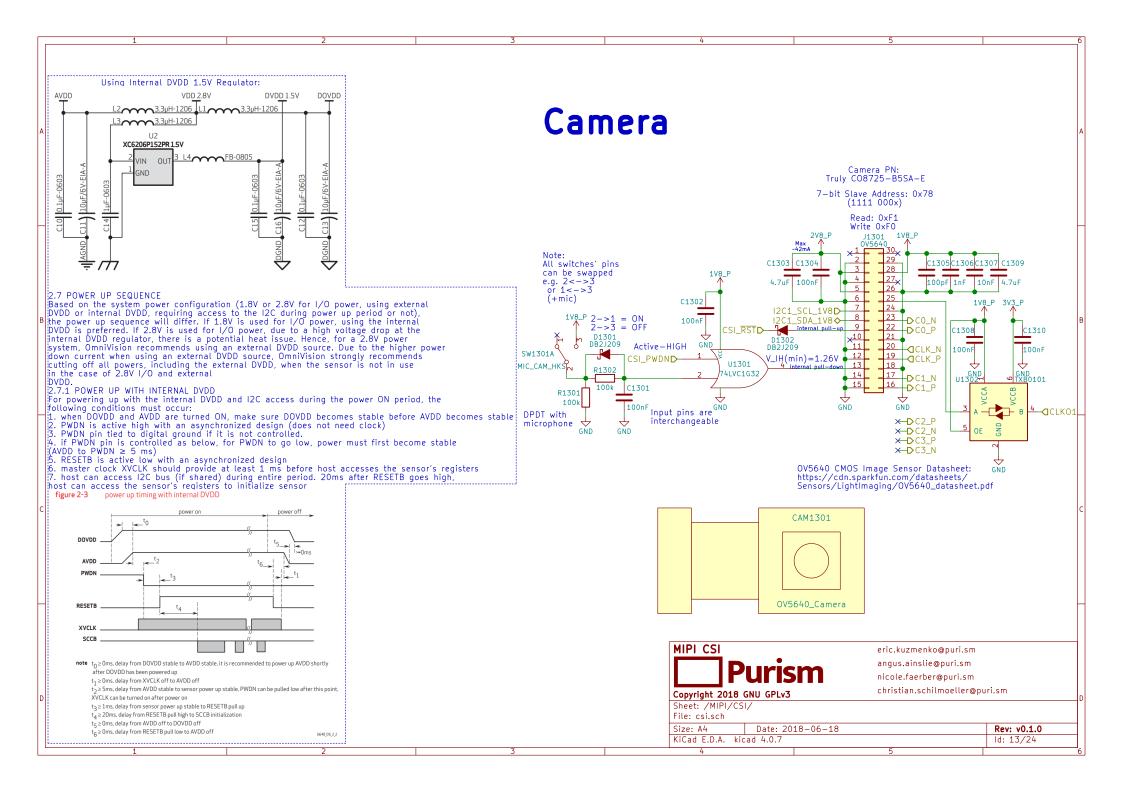


MIPI

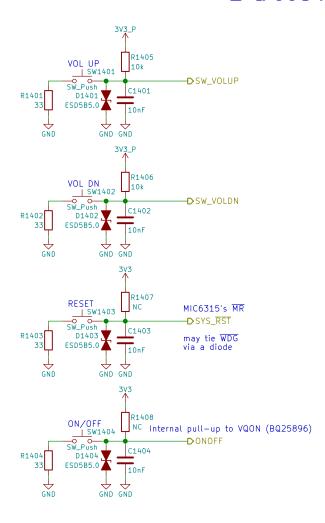


MIPI			eric.kuzmenko@	puri.sm	
Purism		angus.ainslie@puri.sm nicole.faerber@puri.sm christian.schilmoeller@puri.sm			
Copyright 2018 GNU GPLv3					
Sheet: /MIPI/ File: mipi.sch					
Size: A4 Date: 2018-06-18 KiCad E.D.A. kicad 4.0.7			Rev: v0.1.0 Id: 11/24		
h			5	<u>'</u>	

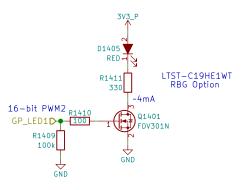




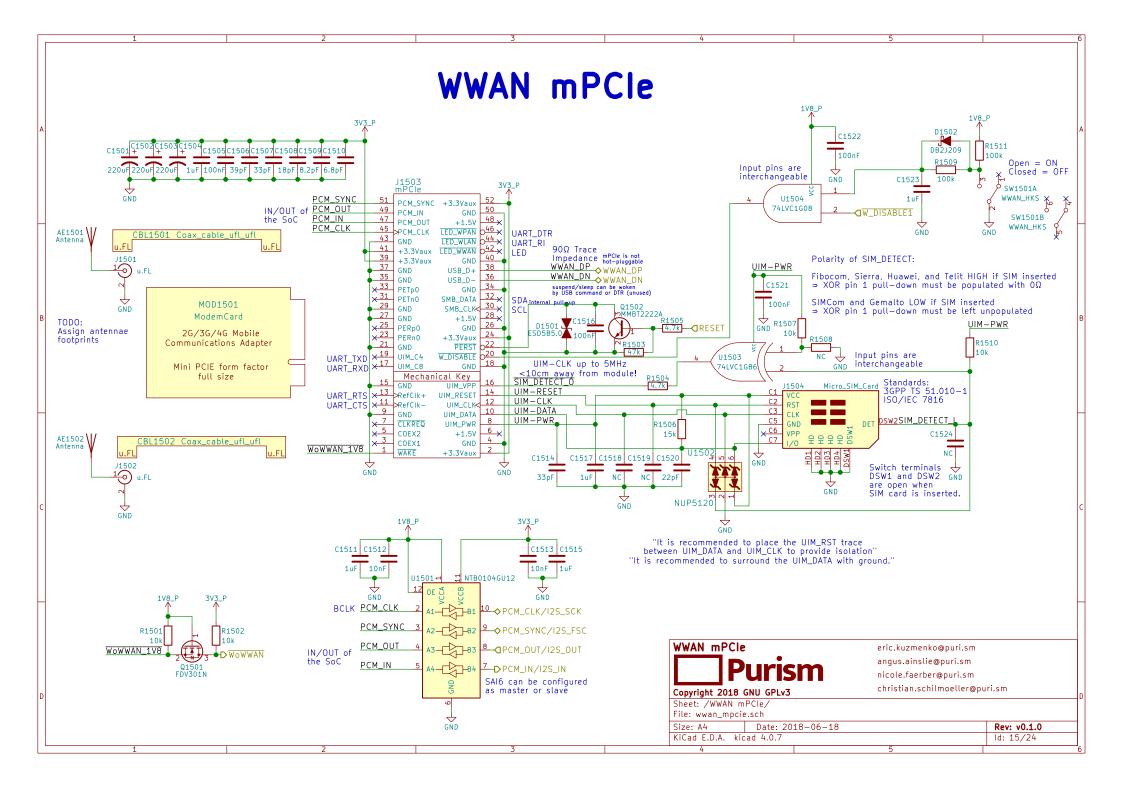
Buttons & LED

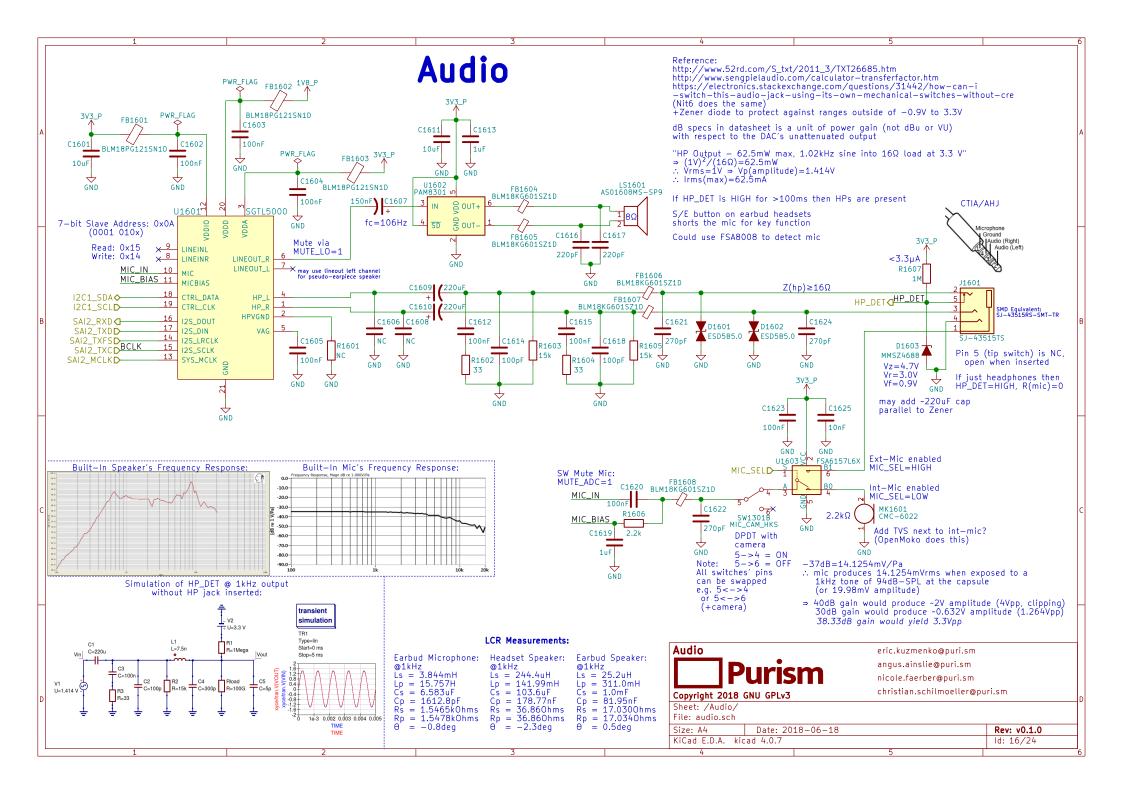


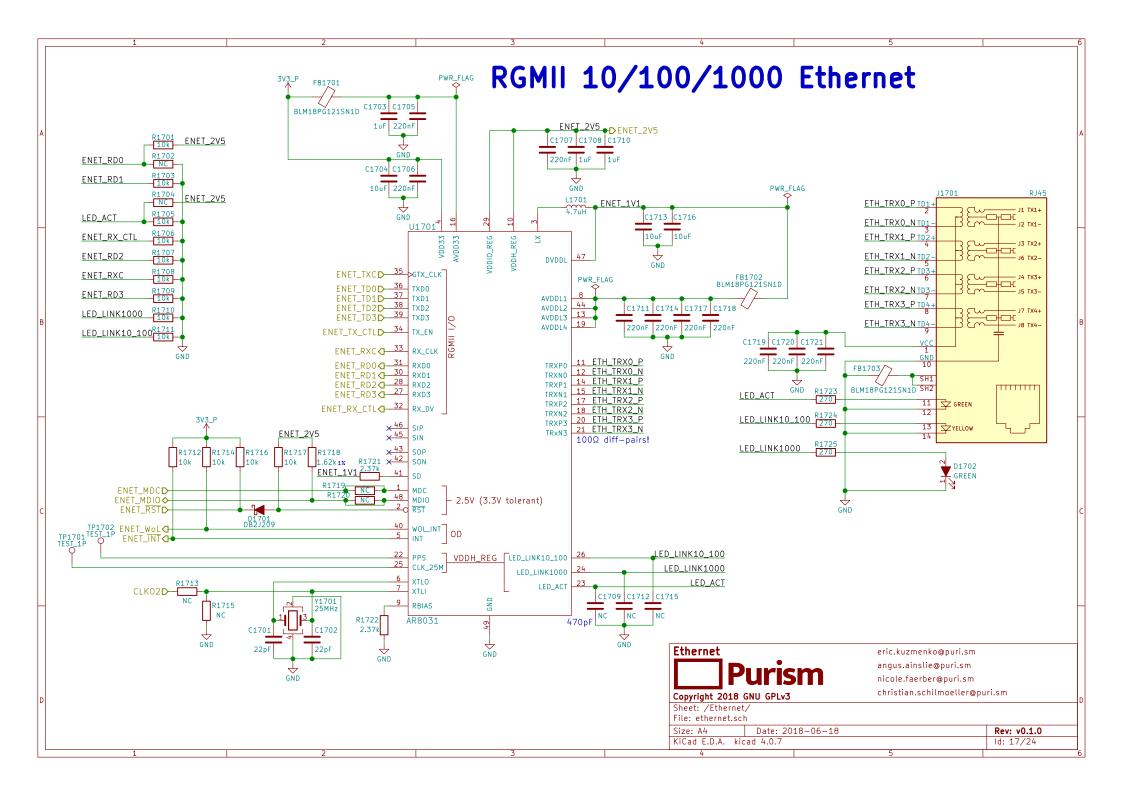
Use PWM2_PWMSAR to set the compare value (duty cycle)
Use PWM2_PWMCR[15:4] to set the PRESCALER (frequency)
Use PWM2_PWMPR to set the top of the counter (frequency)

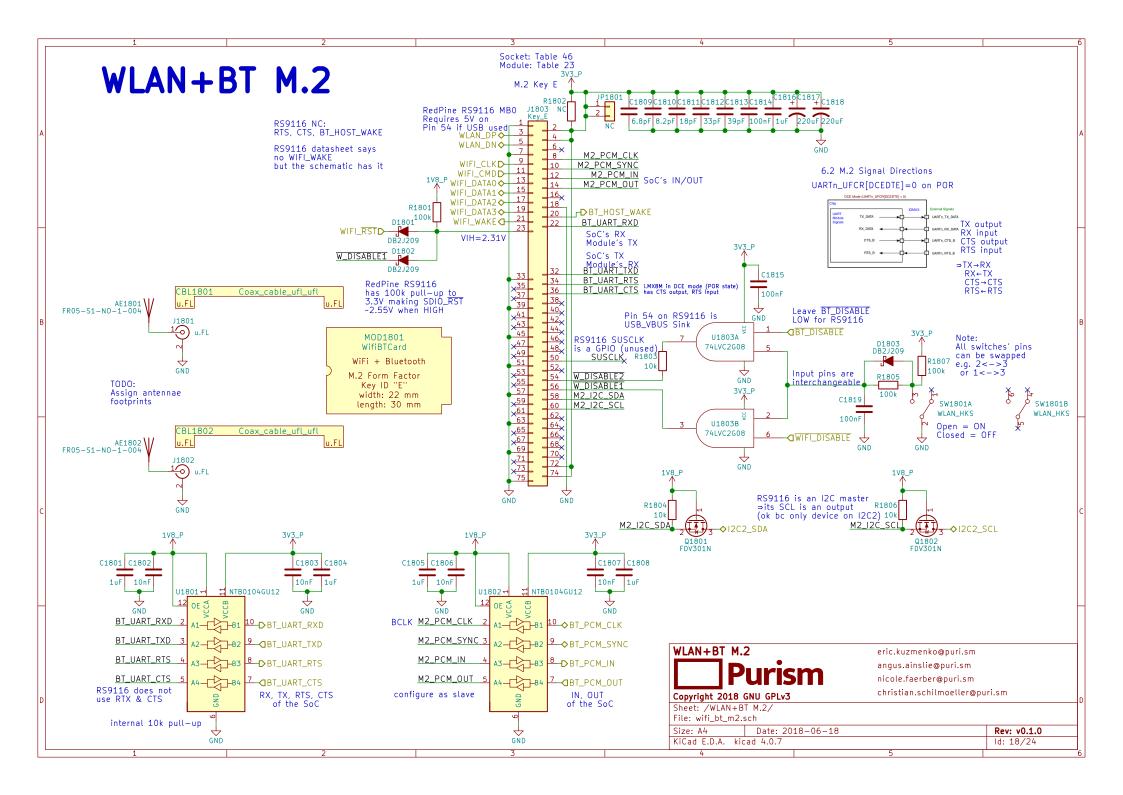








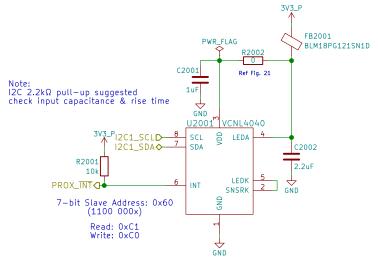




TUSB1046 can be used for DP over USB-C **HDMI** Layout Note: May need swap some signals due to micro—HDMI pinout diff 3V3_P depending on pin location/routing D1901 DB2J209 F1901 100Ω diff pairs U1901 PCMF3HDMI2S D1905 DB2J209 HDMI_Utility HDMI AUXP SMD Micro-HDMI Type D Alternative: 0467650301 C1902 C2 HDMI HPD PICOSMDC035S-2 HDMI_AUXN **()**-C1903 C1904 HDMI_TX0P_CN HDMI_TX0P ▶ R1910 1.5k R1911 1.5k R1912 J1901 Mini-HDMI A4 HDMI_TXON_CN 27k HDMI_TX0ND-CMF+ESD HDMI_TX2P_CN A5 HDMI_CLKP_CN HDMI_CLKPD A6 HDMI_CLKN_CN С6 HDMI_CLKND-GND HDMI_TX2N_CN 83 82 81 R1905 R1903 R1907 HDMI_TX1P_CN ±1%!!! HDMI_TX1N_CN Q1901B Q1902A Q1902B Q1901A HDMI_TX0P_CN NX3020NAKS NX3020NAKS NX3020NAKS HDMI_TX0N_CN HDMI_CLKP_CN HDMI_CLKN_CN HDMI_CEC ♦HDMI_CEC Dual N-Fet annotation must follow text! HDMI_Utility U1902 PCMF2HDMI2SZ M1 HDMI_TX2P_CN HDMI_DDC_SCLDHDMI_DDC_SCLHDMI_DDC_SDA HDMI_TX2P D→ A2 HDMI_TX2N_CN HDMI_TX2ND DCDC_5V_CN A3 HDMI_TX1P_CN HDMI_TX1PD A4 HDMI_TX1N_CN HDMI_HPD (HDMI_HPD HDMI_TX1ND 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 4.0.7 ld: 19/24

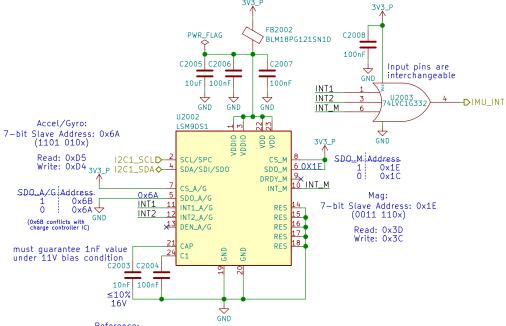
Sensors

Proximity & Ambient Light

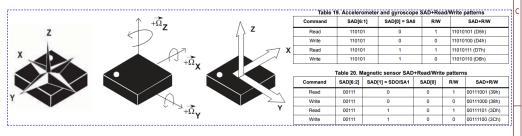


Reference: https://www.vishay.com/docs/84307/designingvcnl4040.pdf http://www.vishay.com/docs/84931/vcnl4040sensorboardfiles.pdf

9-Axis IMU



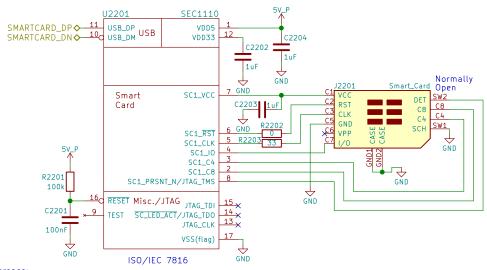
Reference: http://www.st.com/en/evaluation—tools/steval—mki159v1.html







Smart Card



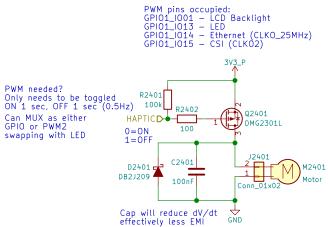
http://www.microchip.com/DevelopmentTools/ProductDetails.aspx?PartNO=EVB-SEC1110







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 Copyright 2018 GNU GPLv3

eric.kuzmenko@puri.sm angus.ainslie@puri.sm nicole.faerber@puri.sm christian.schilmoeller@puri.sm

Sheet: /Haptic Motor/ File: haptic.sch

Size: A4 Date: 2018-06-18

Rev: v0.1.0 KiCad E.D.A. kicad 4.0.7 ld: 24/24