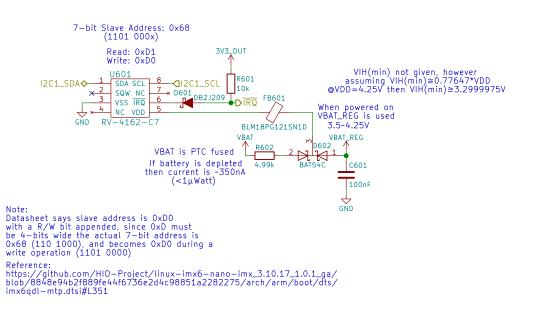
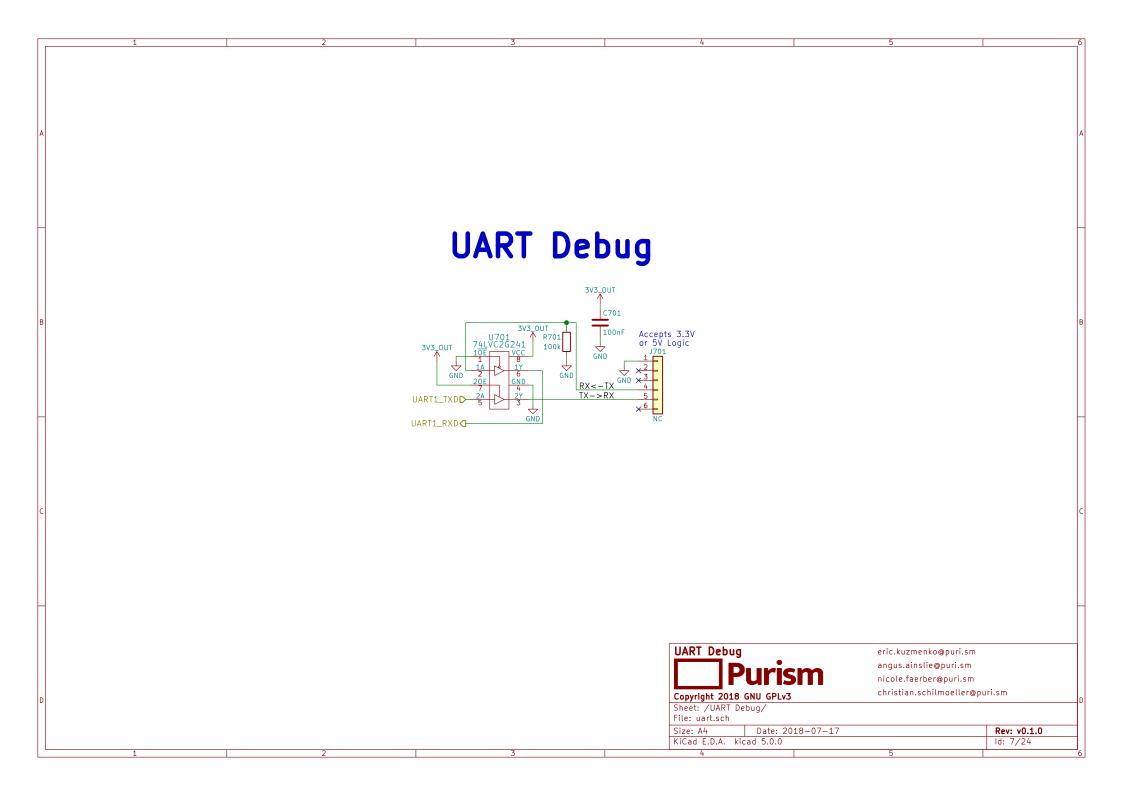
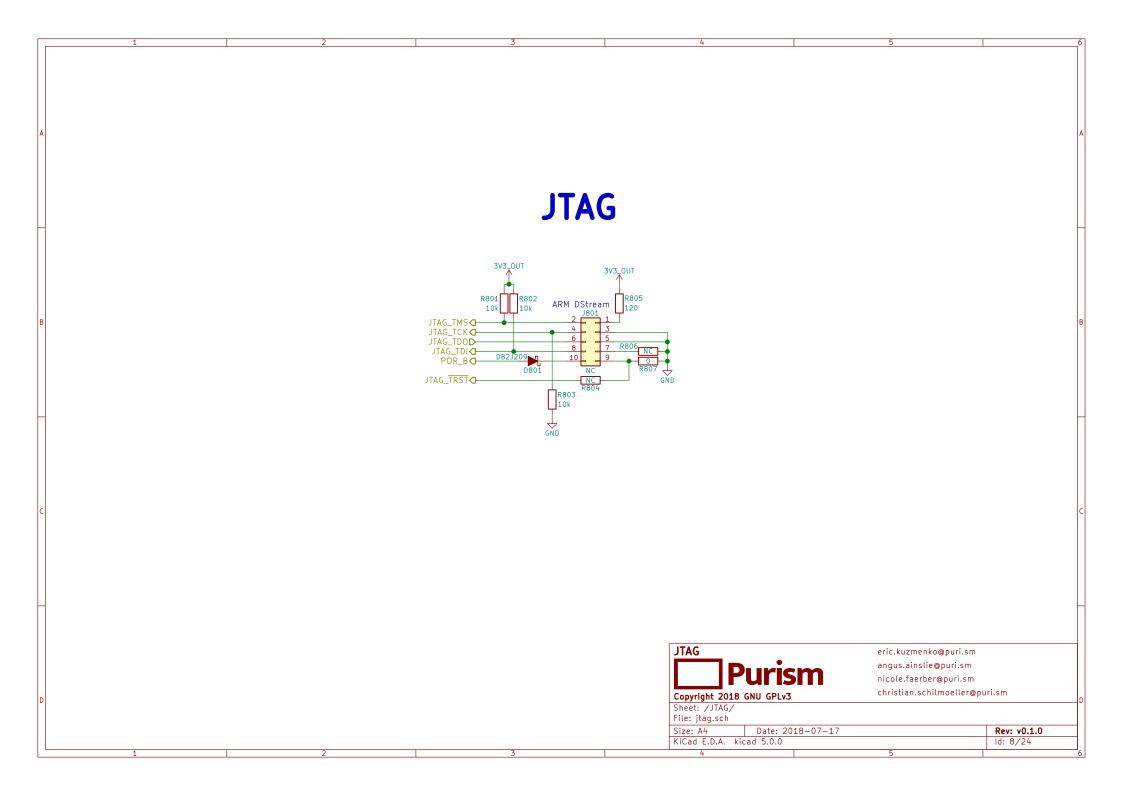


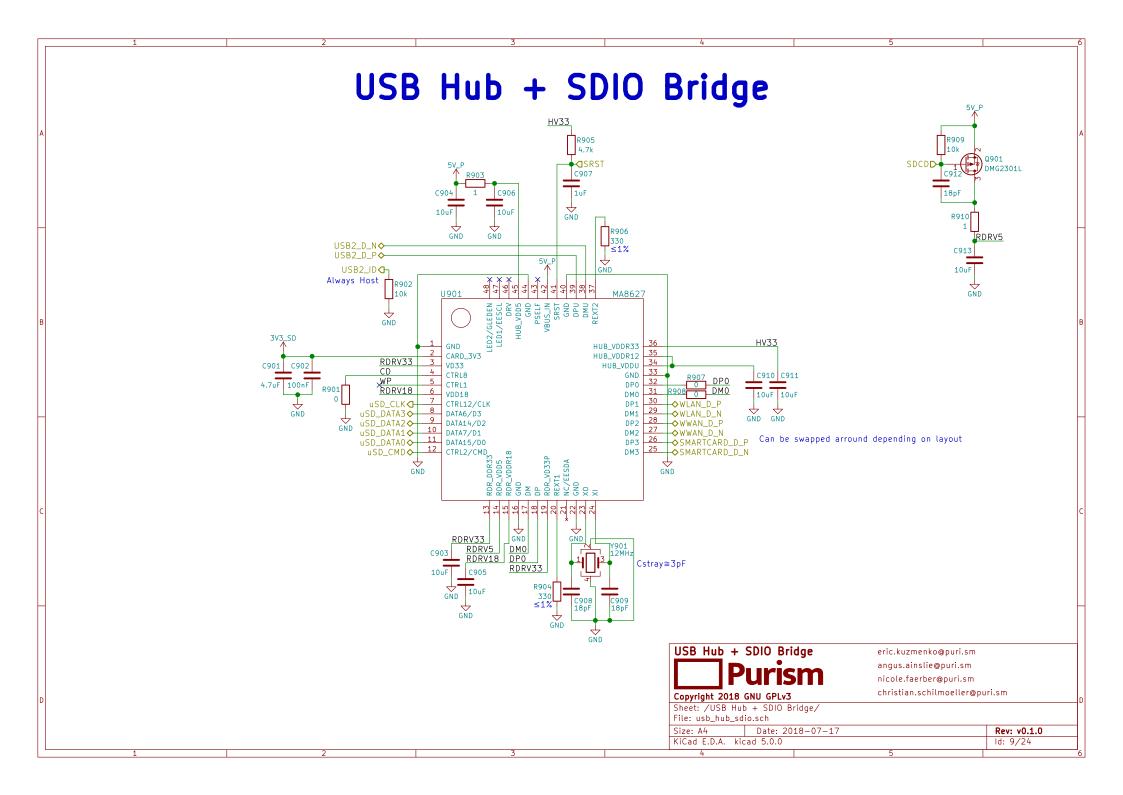
Real-Time Clock

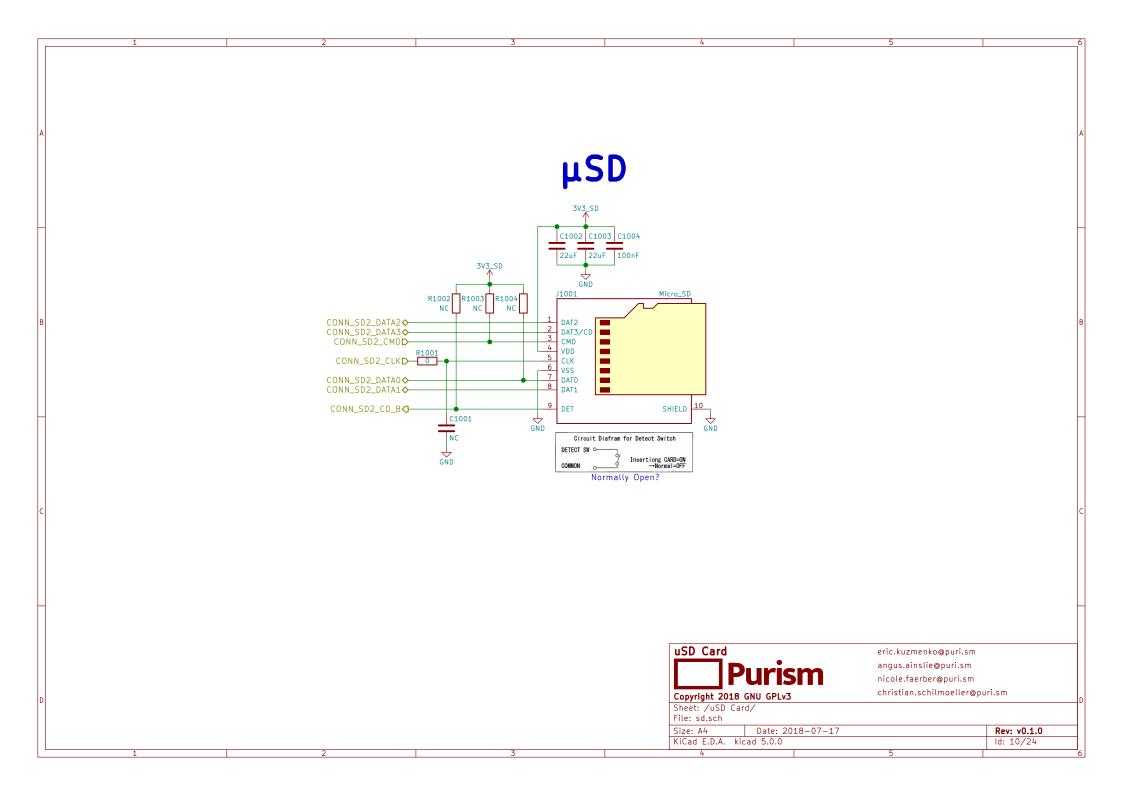


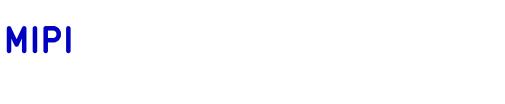






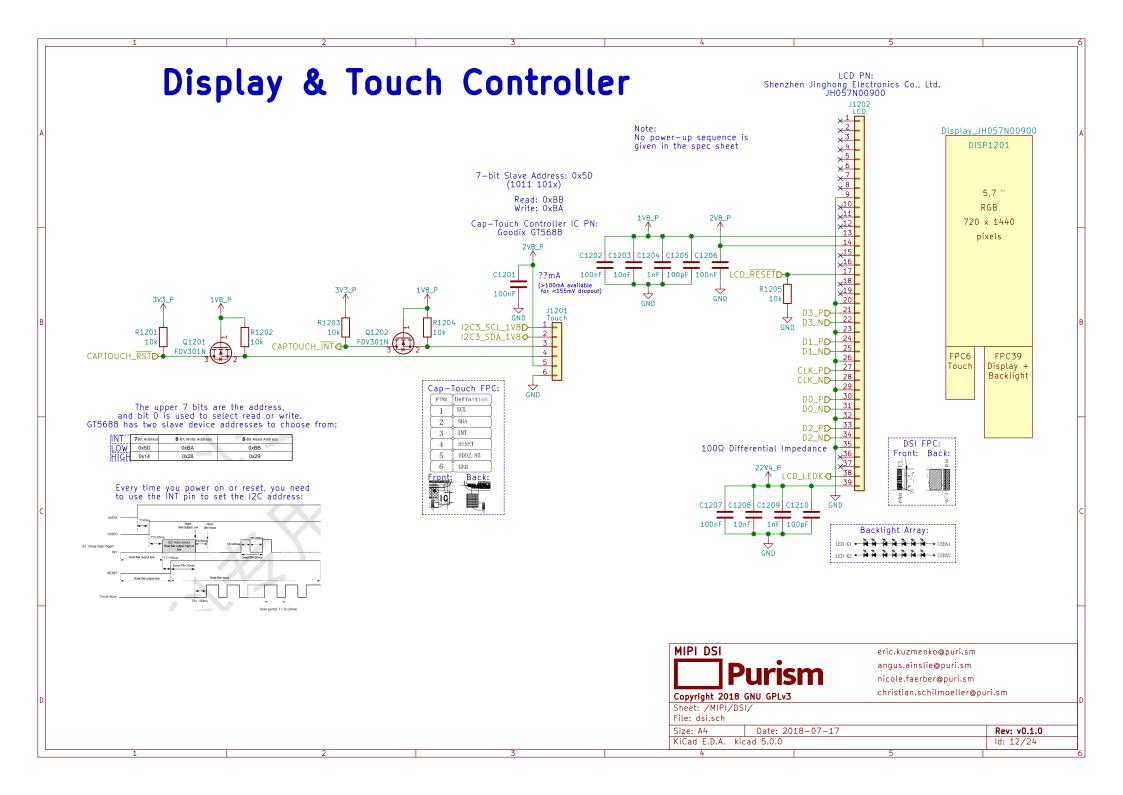


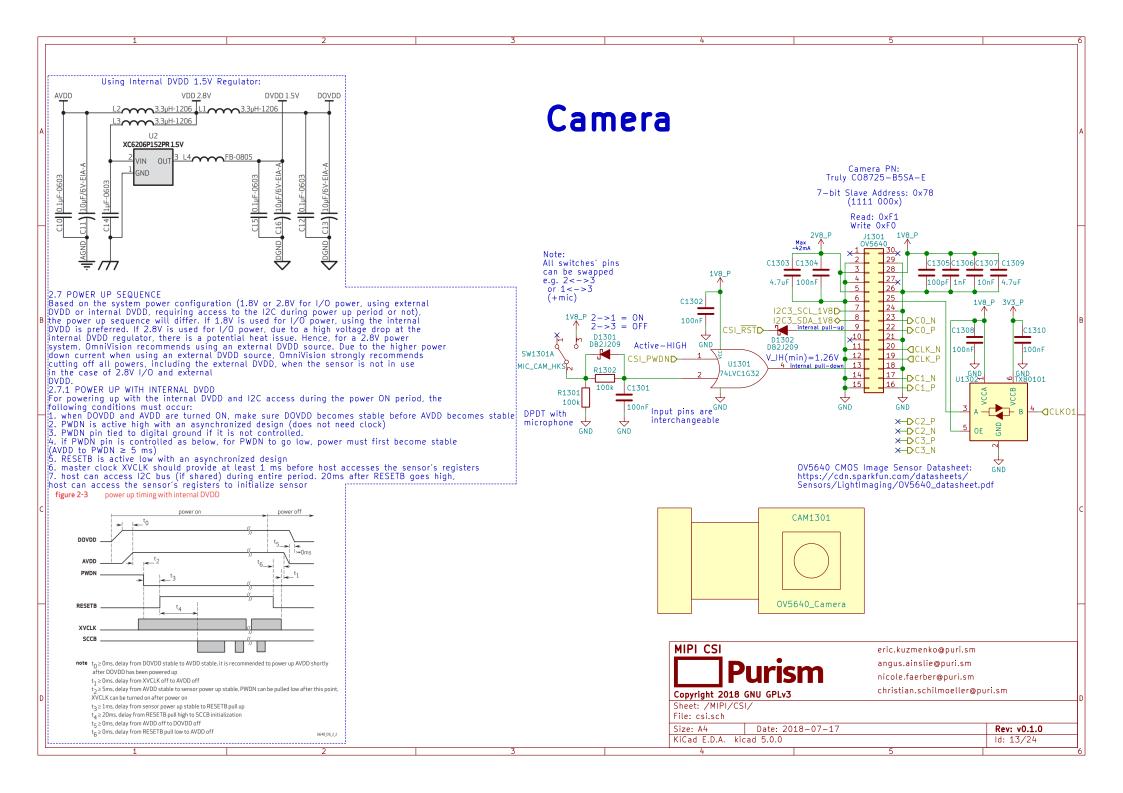






Purism Copyright 2018 GNU GPLv3 Sheet: /MIPI/		eric.kuzmenko@puri.sm angus.ainslie@puri.sm nicole.faerber@puri.sm christian.schilmoeller@puri.sm		
File: mipi.sch Size: A4	Date: 2018-07-17		Rev: v0.1.0	
KiCad E.D.A. kic	ad 5.0.0	-	ld: 11/24	





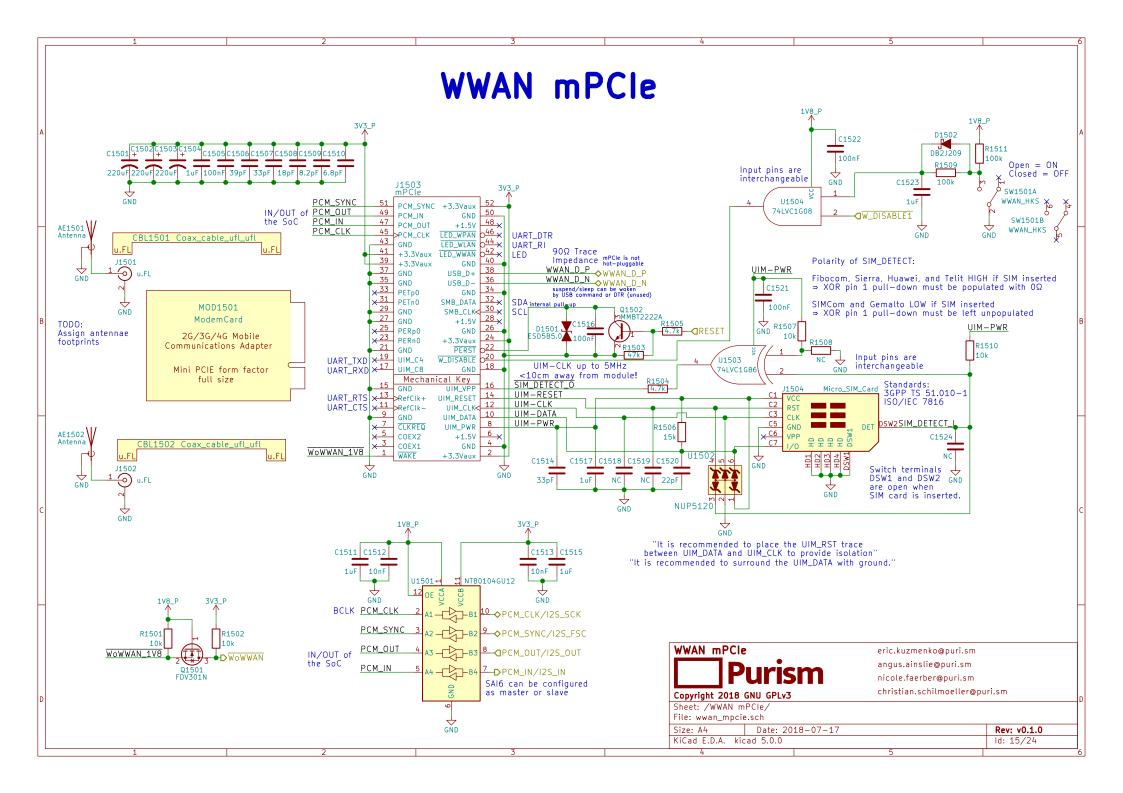
Buttons & LED

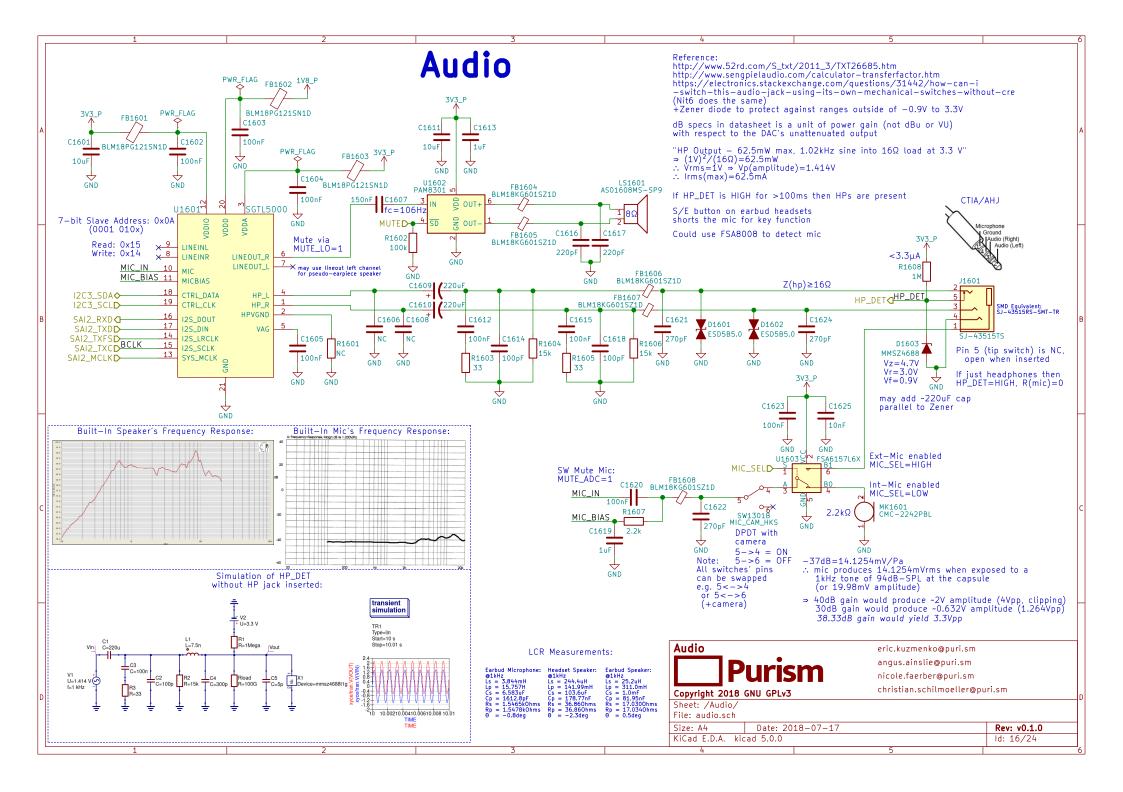


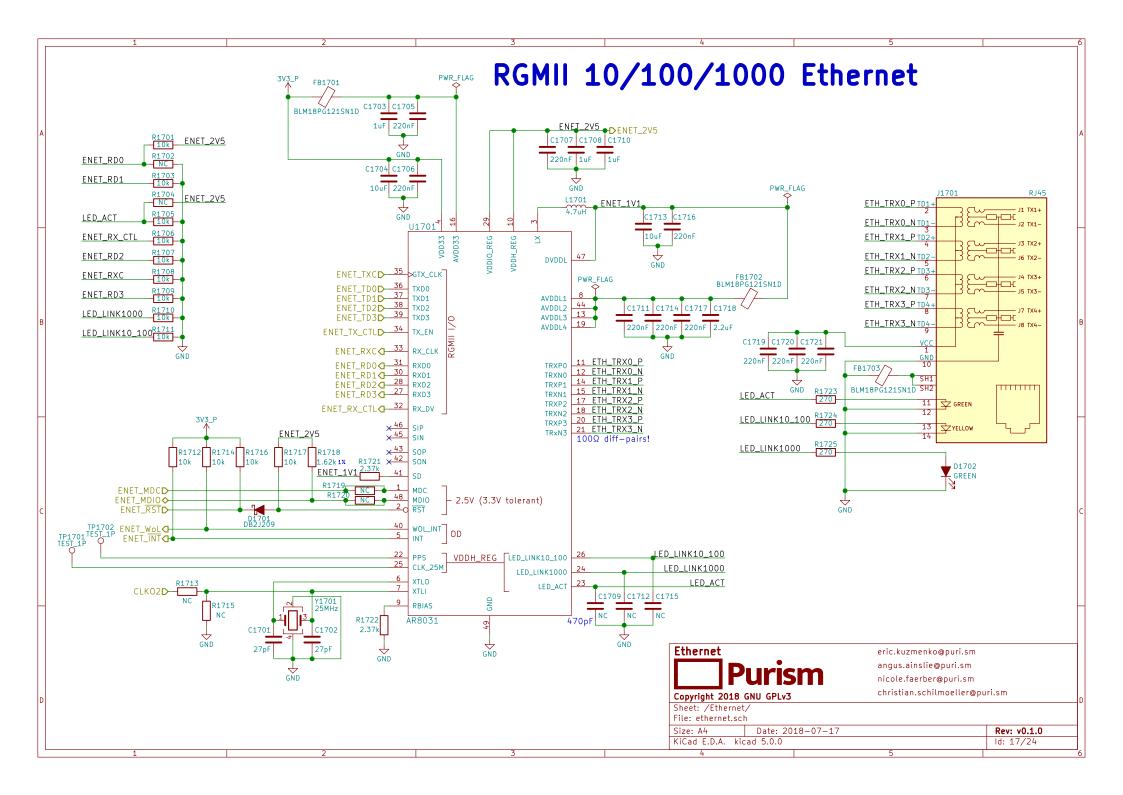
Use PWM2_PWMSAR to set the compare value (duty cycle)
Use PWM2_PWMCR[15:4] to set the PRESCALER (frequency)
Use PWM2_PWMPR to set the top of the counter (frequency)

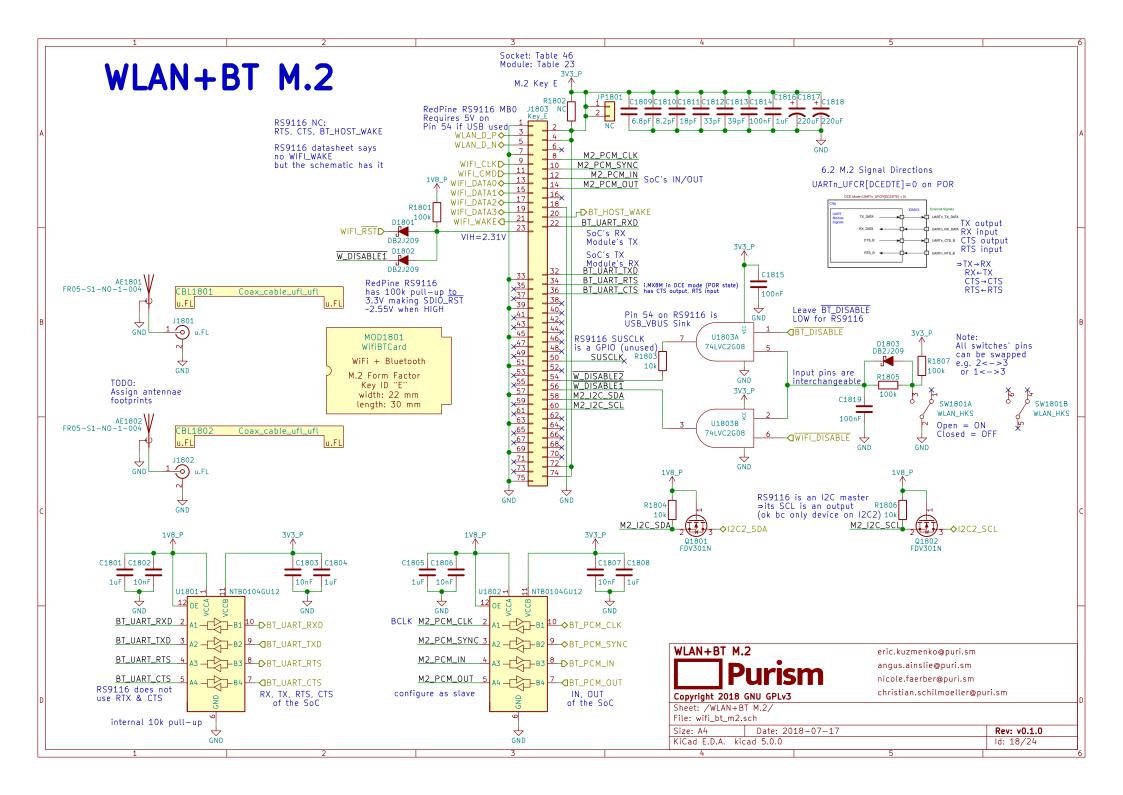








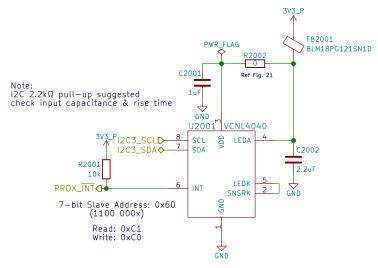




TUSB1046 can be used for DP over USB-C **HDMI** Layout Note: May need swap some signals due to micro—HDMI pinout diff 3V3_P depending on pin location/routing 5V_P D1901 DB2J209 F1901 100Ω diff pairs U1901 PCMF3HDMI2S D1905 DB2J209 C1901 1uF HDMI_Utility HDMI AUX PC-SMD Micro-HDMI Type D Alternative: 0467650301 C2 HDML HPD PICOSMDC035S-HDMI_AUX_N C1904 C1903 A3 HDMI_CN_TXO_P HDMI_TX0_PD• R1910 R1911 R1912 J1901 Mini-HDMI A4 HDMI_CN_TXO_N HDMI_TX0_ND-1.5k 1.5k 27k CMF+ESD A5 HDMI_CN_CLK_P HDMI_CN_TX2_P HDMI_CLK_PD A6 HDMI_CN_CLK_N C6 HDMI_CLK_ND-GND HDMI_CN_TX2_N 83 82 81 R1907 R1903 R1905 HDMI_CN_TX1_P ±1%!!! HDMI_CN_TX1_N HDMI_CN_TX0_P Q1901A Q1901B Q1902A Q1902B NX3020NAKS NX3020NAKS NX3020NAKS 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 A1HDMI_CN_TX2_P HDMI_DDC_SCLDHDMI_DDC_SCL HDMI_DDC_SDA HDMI_TX2_PD→ A2HDMI_CN_TX2_N HDMI_TX2_ND DCDC_5V_CN A3HDMI_CN_TX1_P HDMI_TX1_PD HDMI_HPD (HDMI_HPD A4HDMI_CN_TX1_N HDMI_TX1_ND CMF+ESD R1902 R1904 R1906 R1908 C1905 D1903 D1904 D1906 R1913 R1914 ESD5B5.0 ESD5B5.0 D1906 Q1903A Q1903B Q1904A Q1904B NX3020NAKS NX3020NAKS NX3020NAKS NX3020NAKS ESD5B5.0 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: 2018-07-17 Rev: v0.1.0 KiCad E.D.A. kicad 5.0.0 ld: 19/24

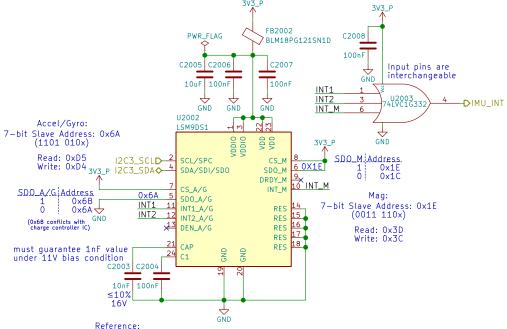
Sensors

Proximity & Ambient Light

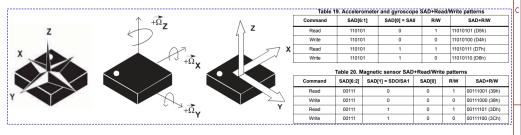


Reference: https://www.vishay.com/docs/84307/designingvcnl4040.pdf http://www.vishay.com/docs/84931/vcnl4040sensorboardfiles.pdf

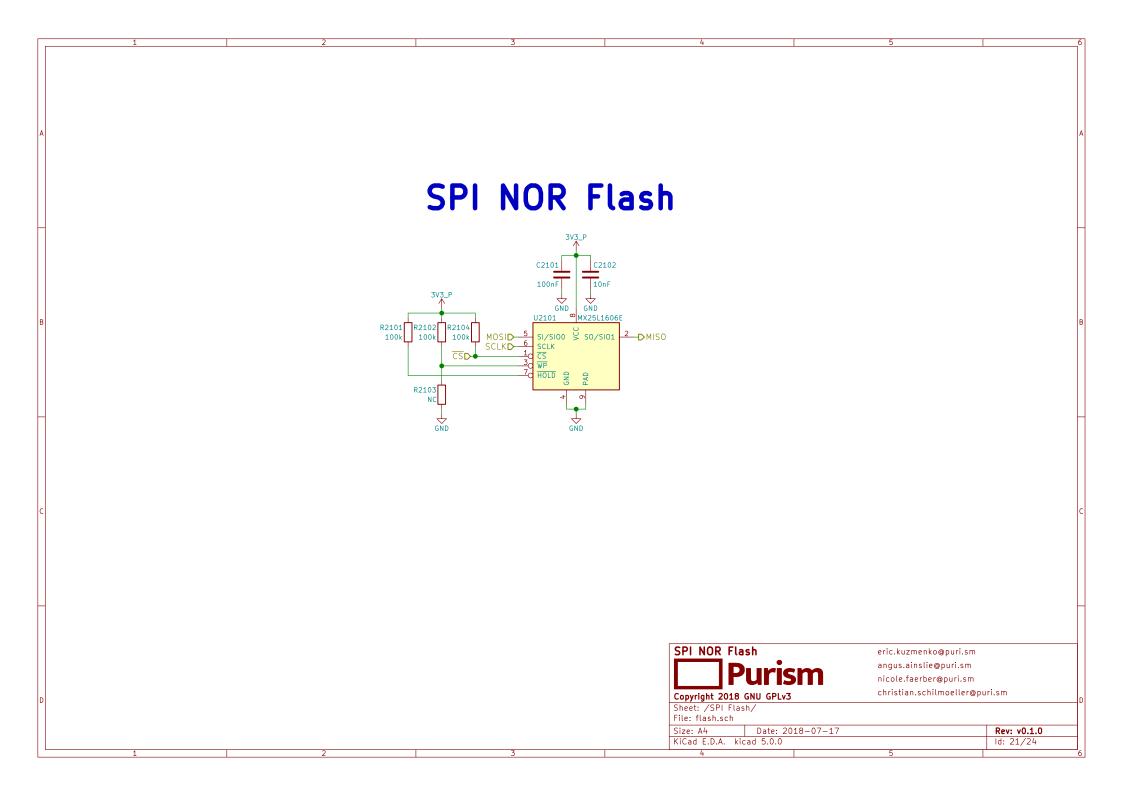
9-Axis IMU



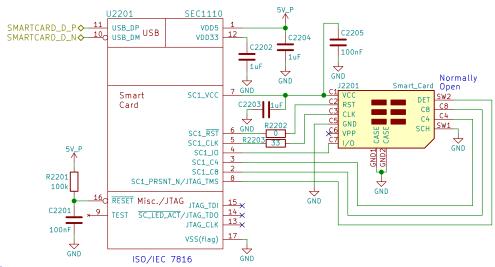
http://www.st.com/en/evaluation-tools/steval-mki159v1.html





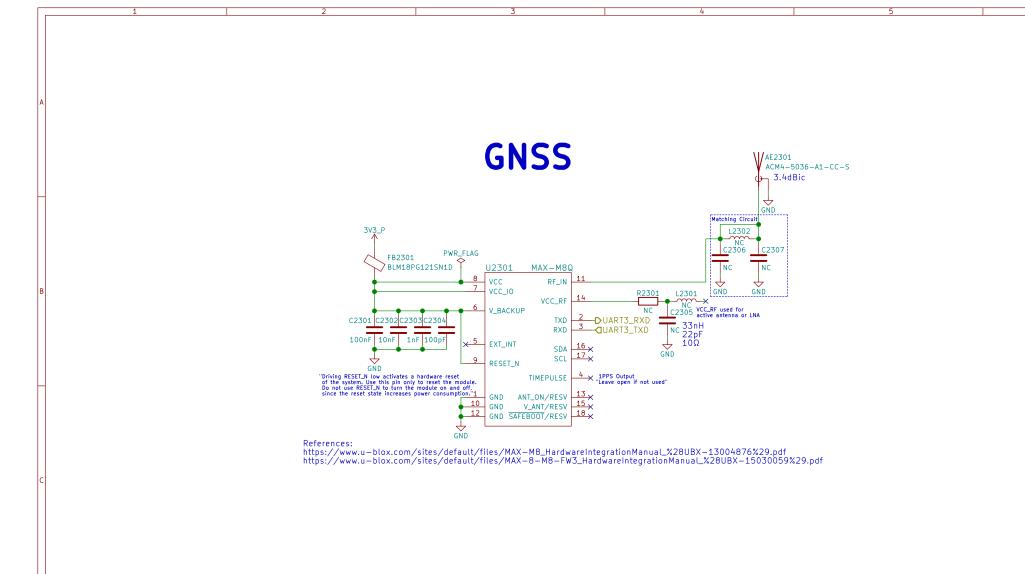


Smart Card



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 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: 2018-07-17 KiCad E.D.A. kicad 5.0.0

Rev: v0.1.0 ld: 24/24