



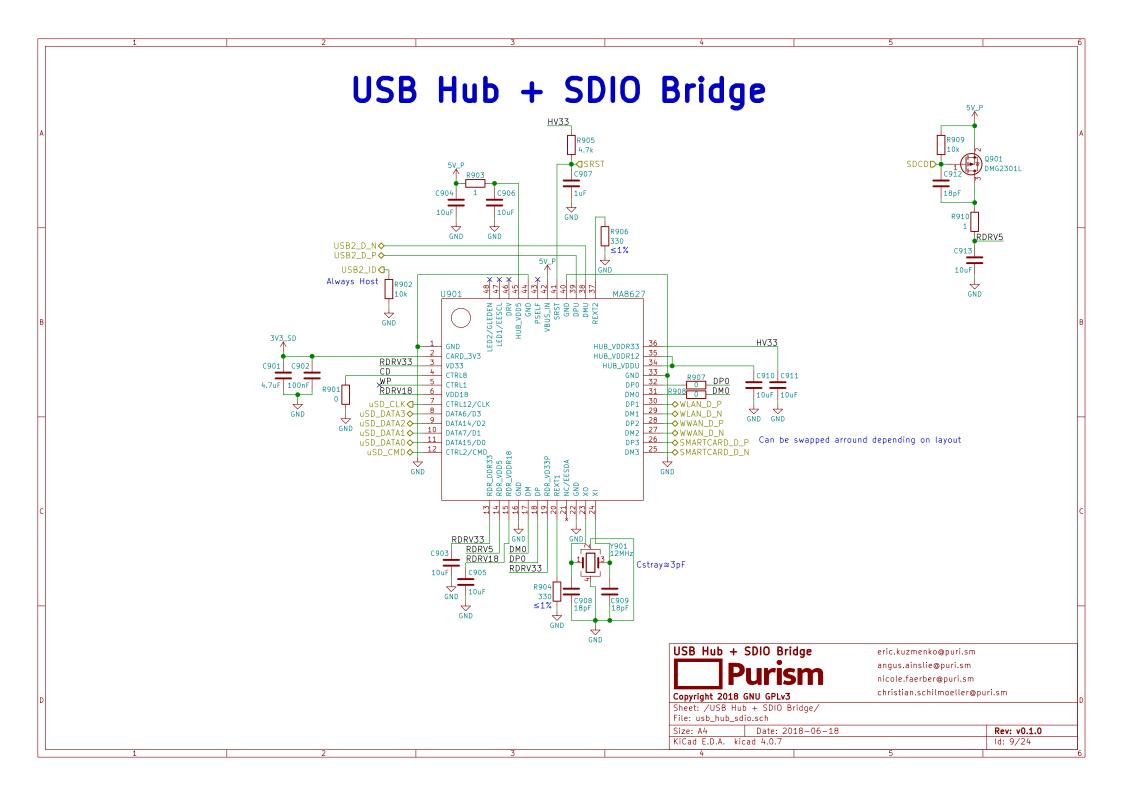


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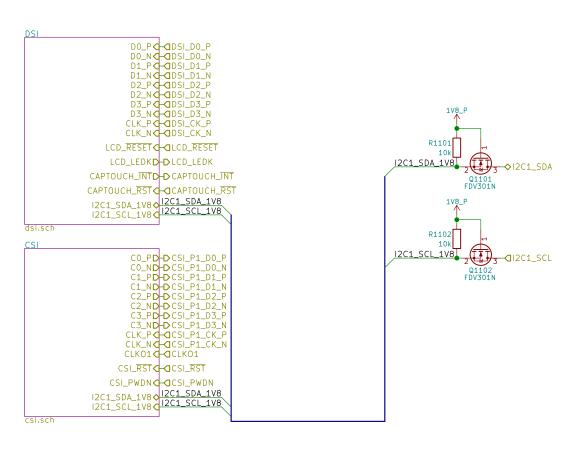




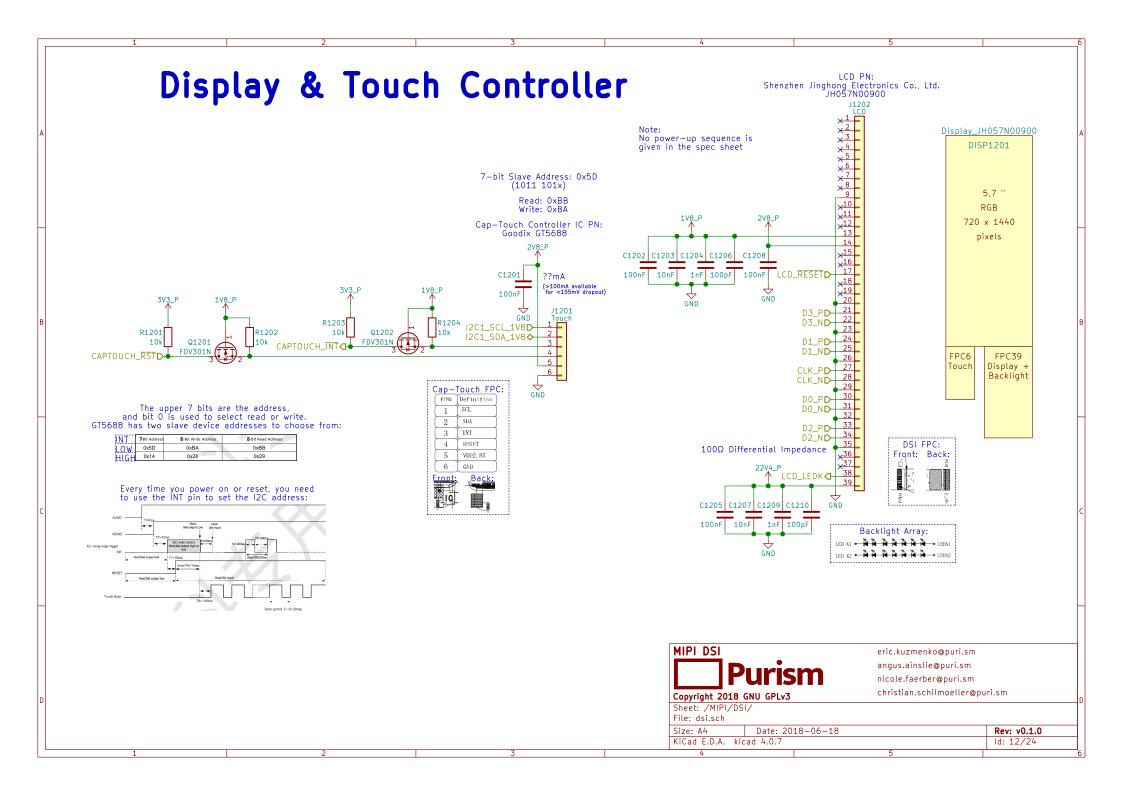


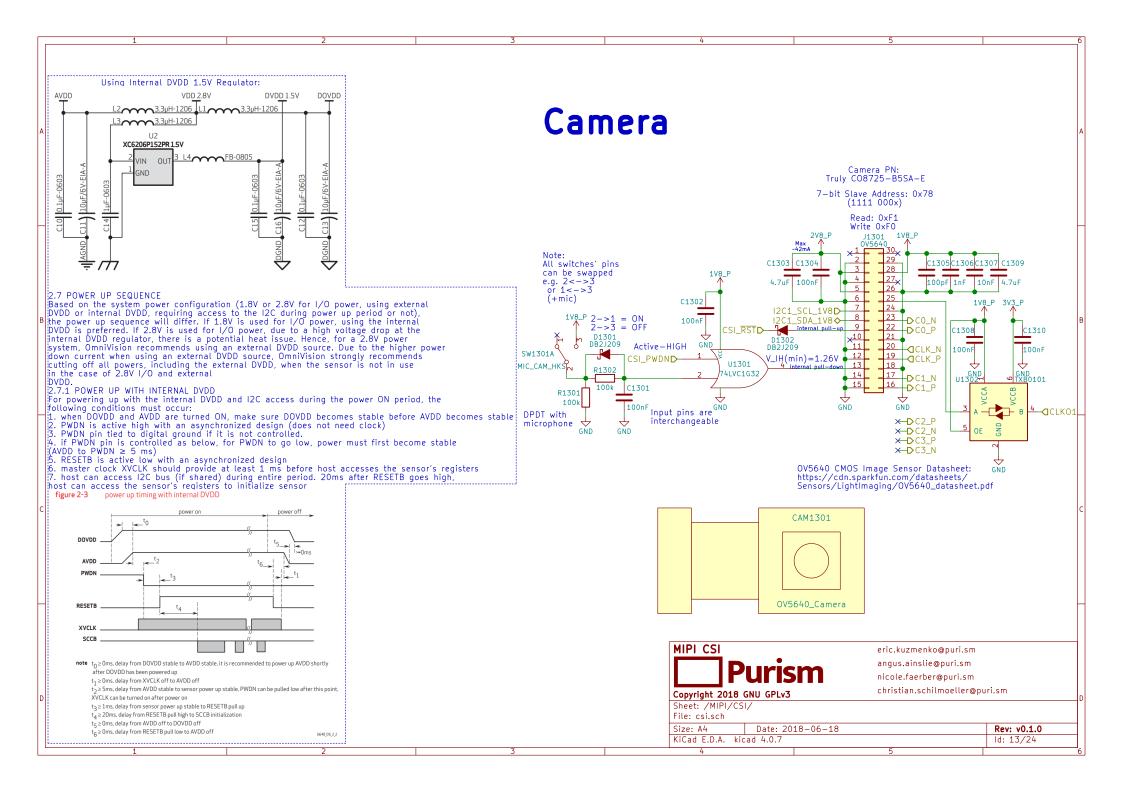


MIPI

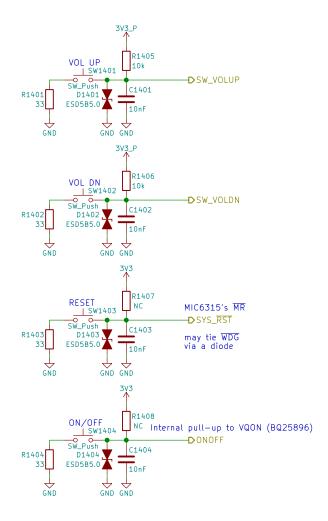


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Copyright 2018 GNU GPLv3		christian.schilmoeller@puri.sm	
Sheet: /MIPI/			
File: mipi.sch			
Size: A4 Da	te: 2018-06-18		Rev: v0.1.0
KiCad E.D.A. kicad 4.0.7			ld: 11/24

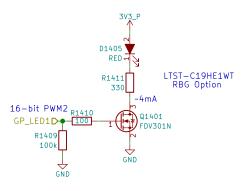




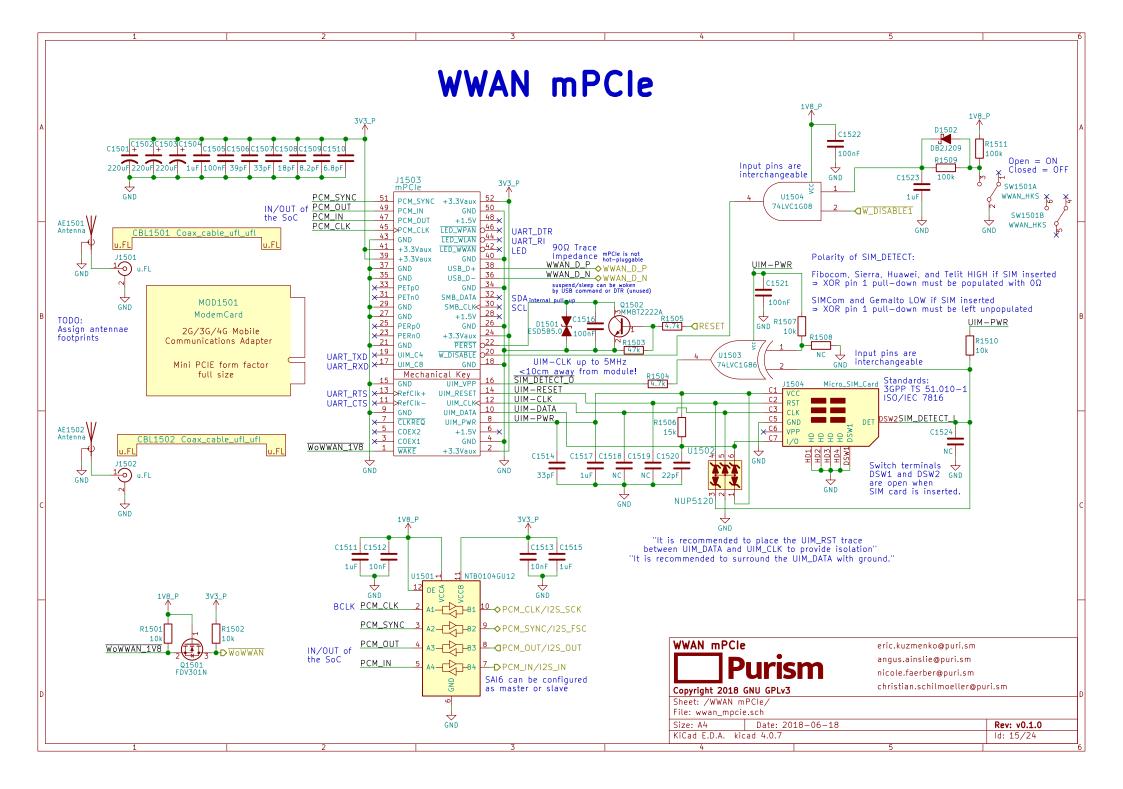
Buttons & LED

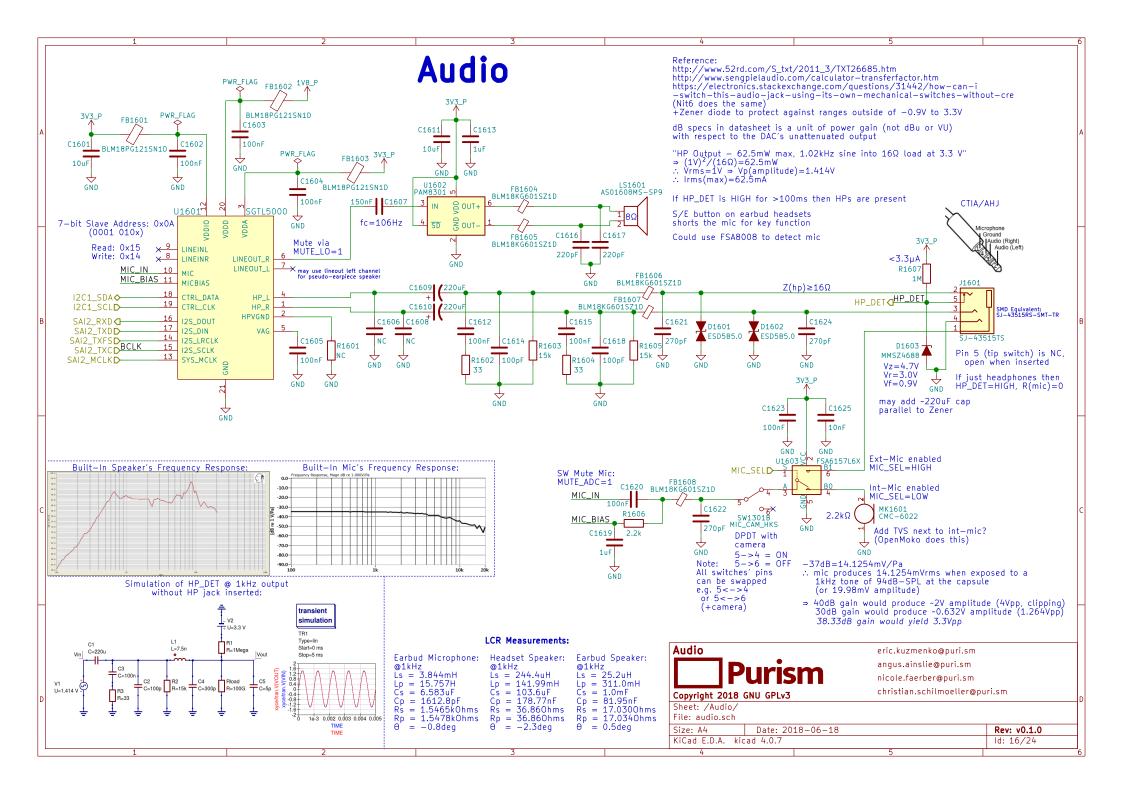


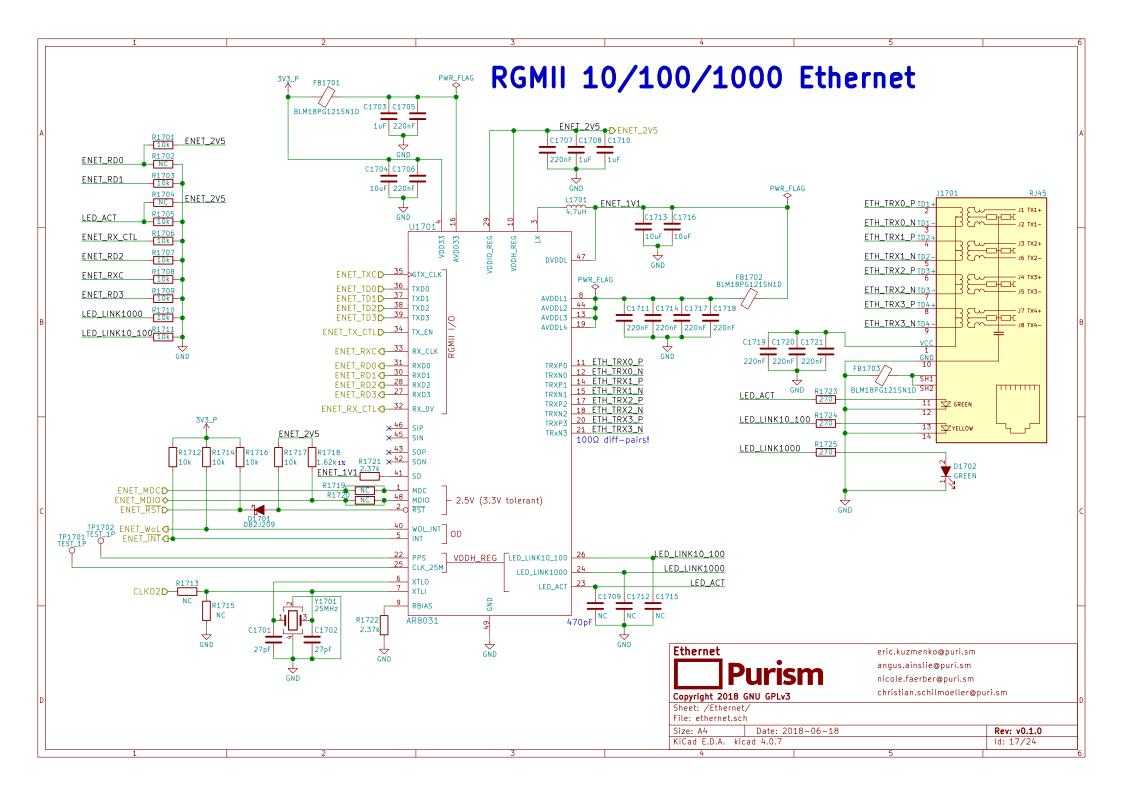
Use PWM2_PWMSAR to set the compare value (duty cycle)
Use PWM2_PWMCR[15:4] to set the PRESCALER (frequency)
Use PWM2_PWMPR to set the top of the counter (frequency)

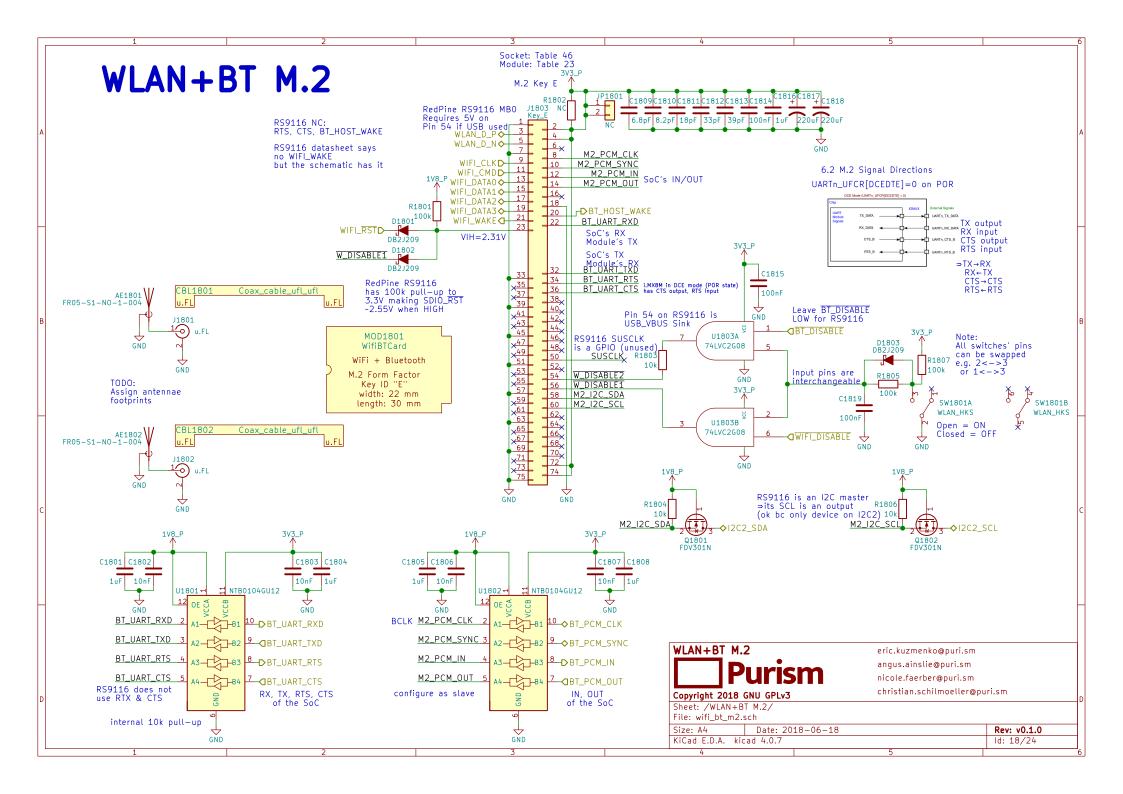








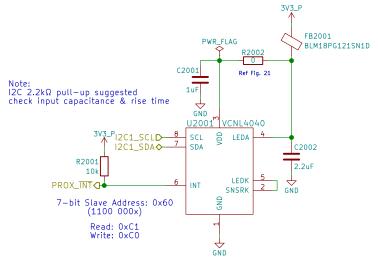




TUSB1046 can be used for DP over USB-C **HDMI** Layout Note: May need swap some signals due to micro—HDMI pinout diff 3V3_P depending on pin location/routing D1901 DB2J209 F1901 100Ω diff pairs U1901 PCMF3HDMI2S D1905 DB2J209 HDMI_Utility HDMI AUX PC-SMD Micro-HDMI Type D Alternative: 0467650301 C1902 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 4.0.7 ld: 19/24

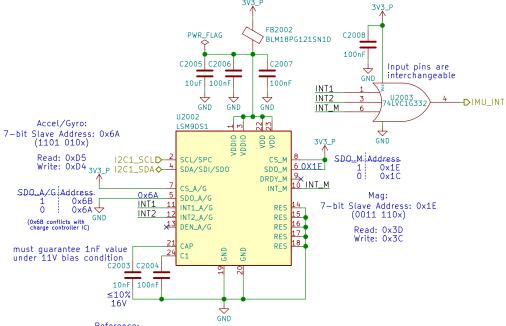
Sensors

Proximity & Ambient Light

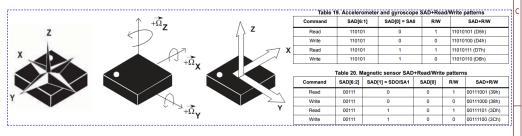


Reference: https://www.vishay.com/docs/84307/designingvcnl4040.pdf http://www.vishay.com/docs/84931/vcnl4040sensorboardfiles.pdf

9-Axis IMU



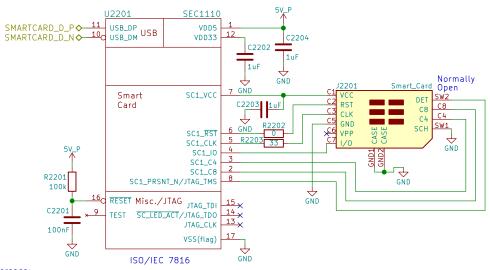
Reference: http://www.st.com/en/evaluation—tools/steval—mki159v1.html







Smart Card



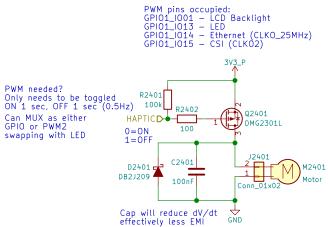
http://www.microchip.com/DevelopmentTools/ProductDetails.aspx?PartNO=EVB-SEC1110







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

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Size: A4 Date: 2018-06-18

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