

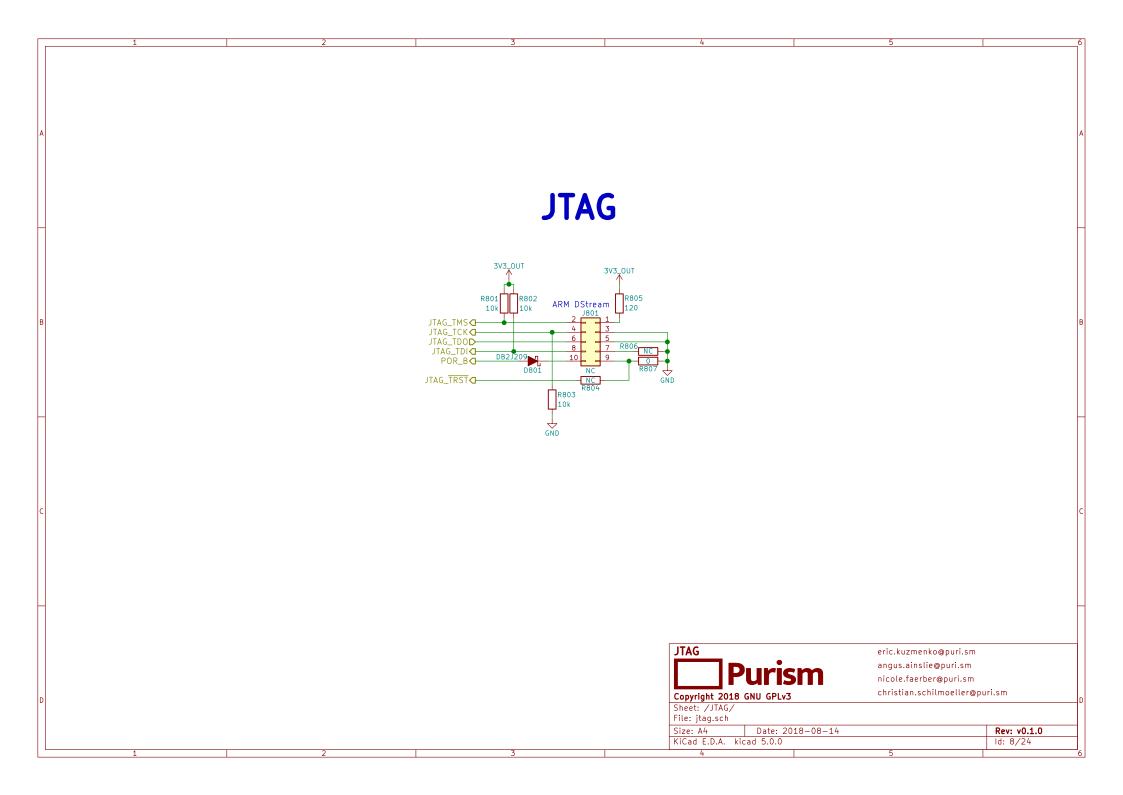


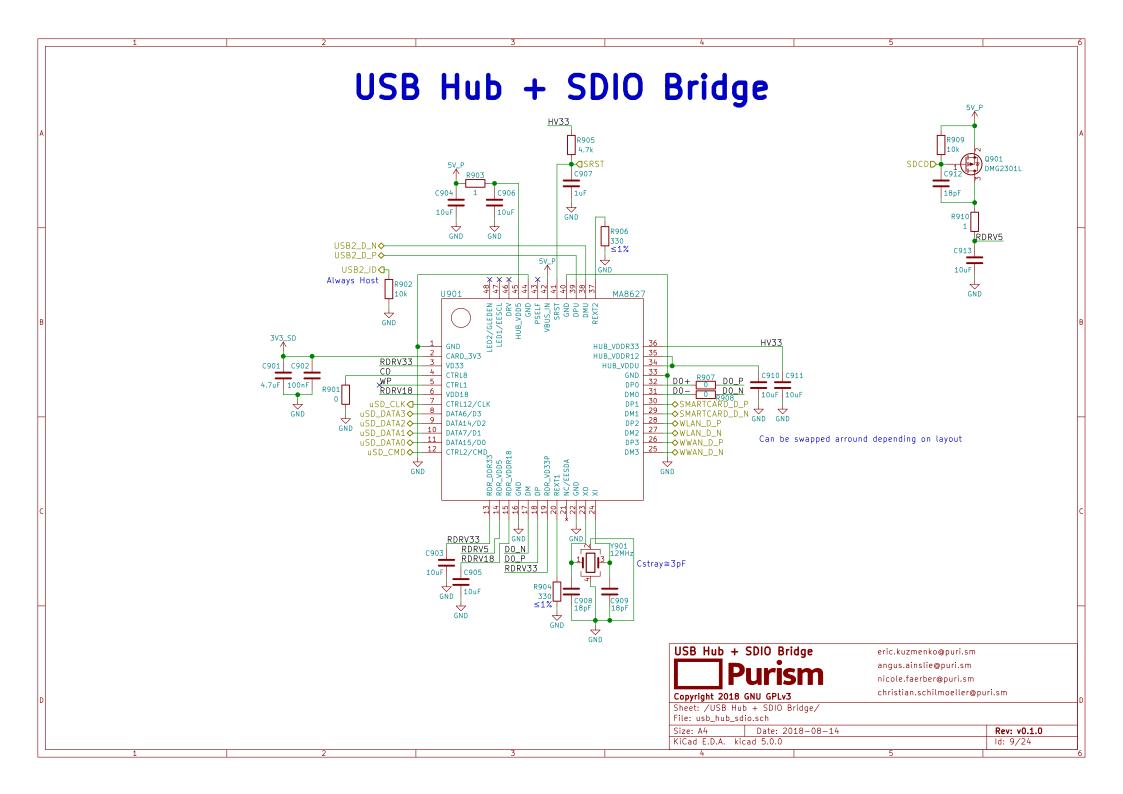
### Real-Time Clock

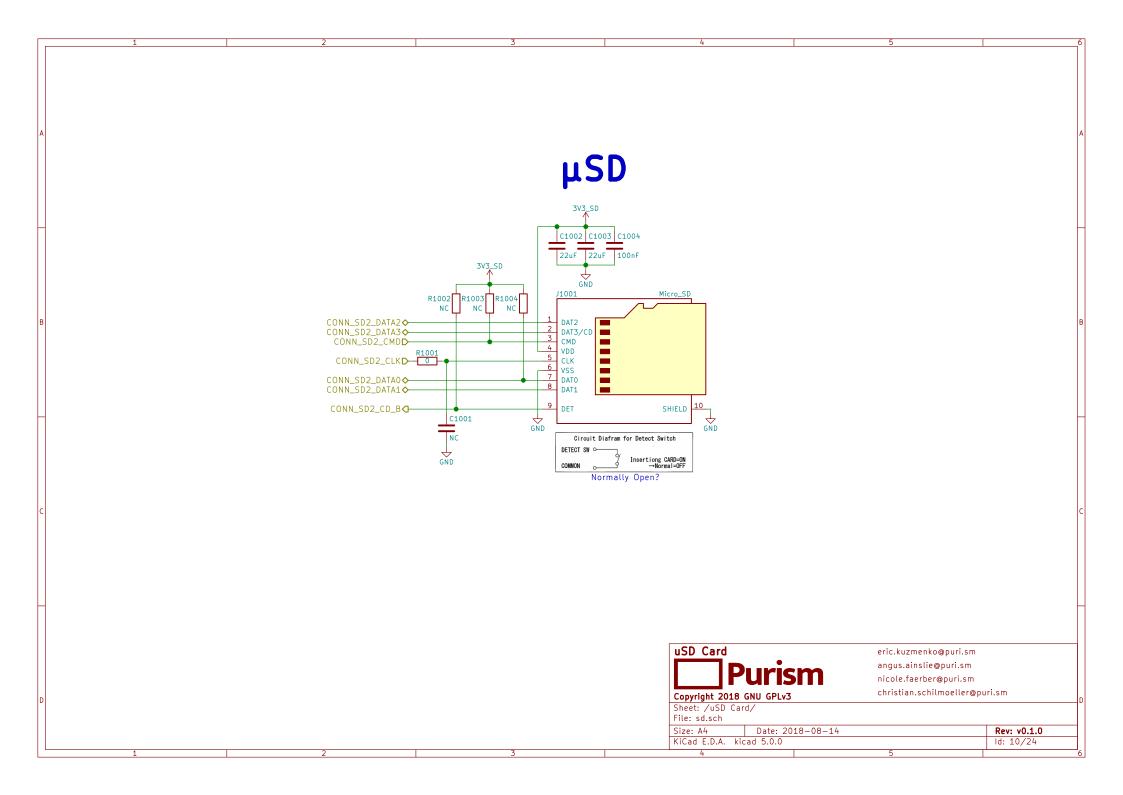








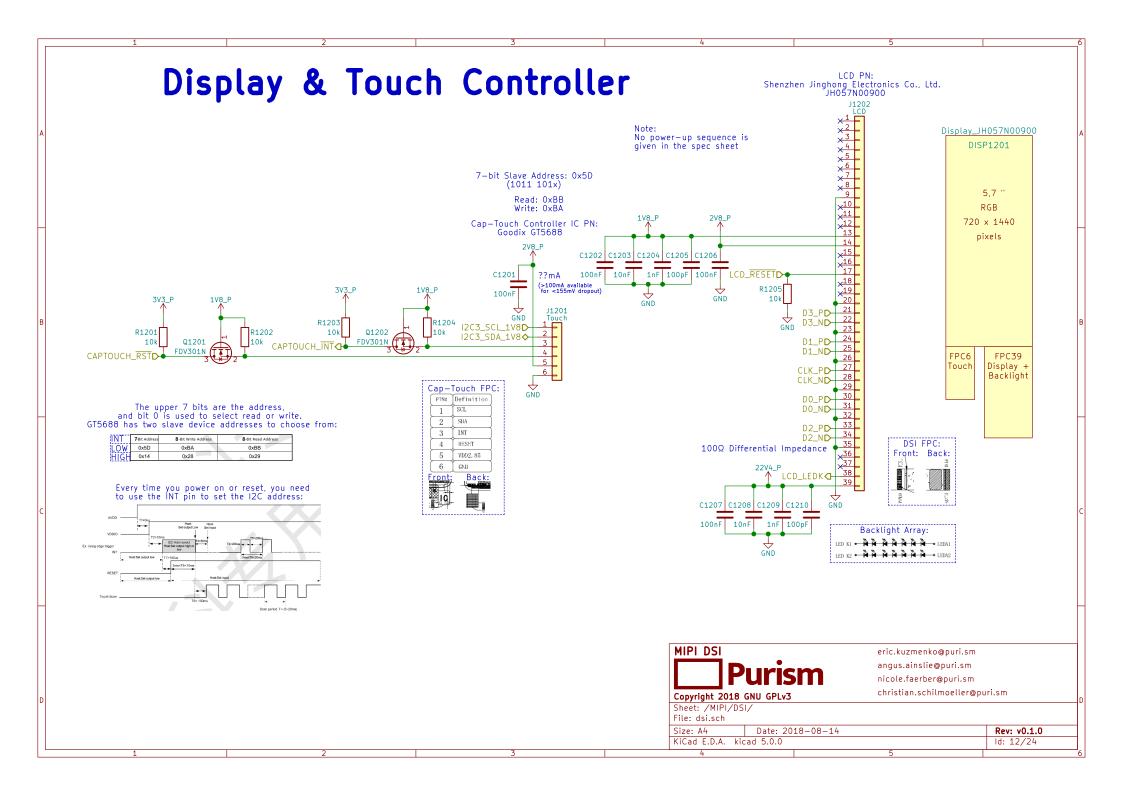








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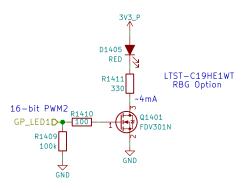




## **Buttons & LED**

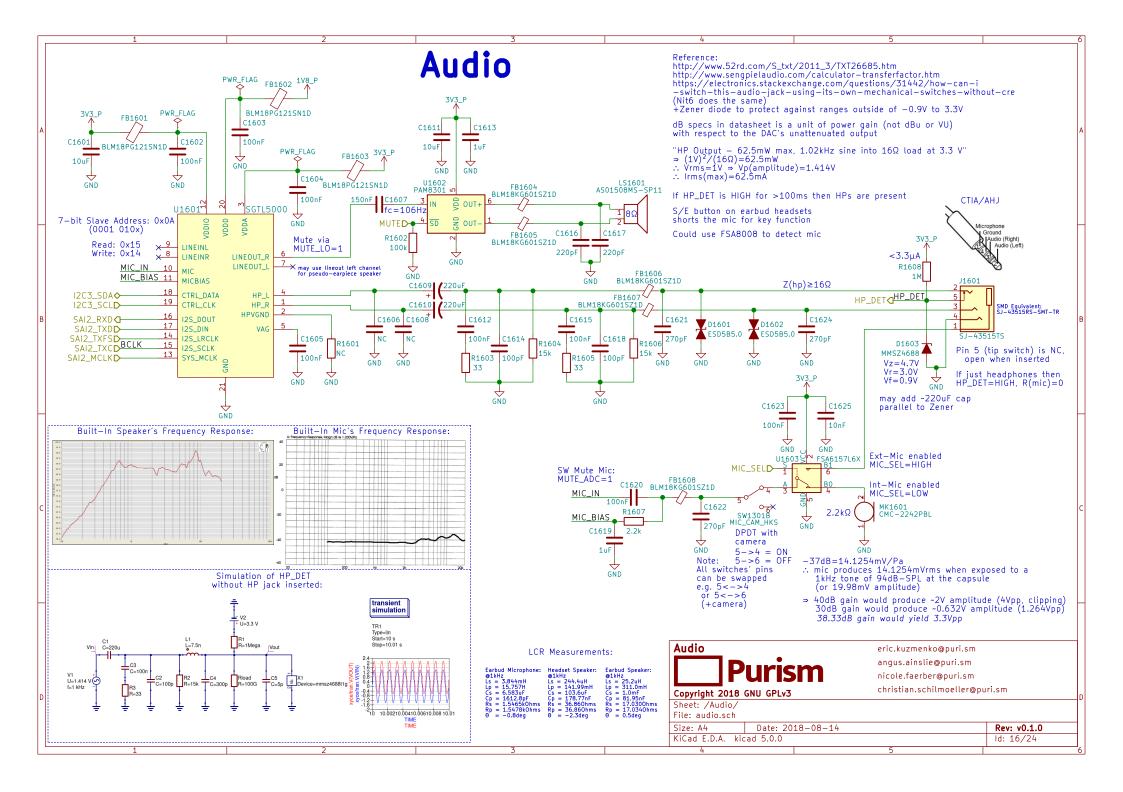


Use PWM2\_PWMSAR to set the compare value (duty cycle)
Use PWM2\_PWMCR[15:4] to set the PRESCALER (frequency)
Use PWM2\_PWMPR to set the top of the counter (frequency)

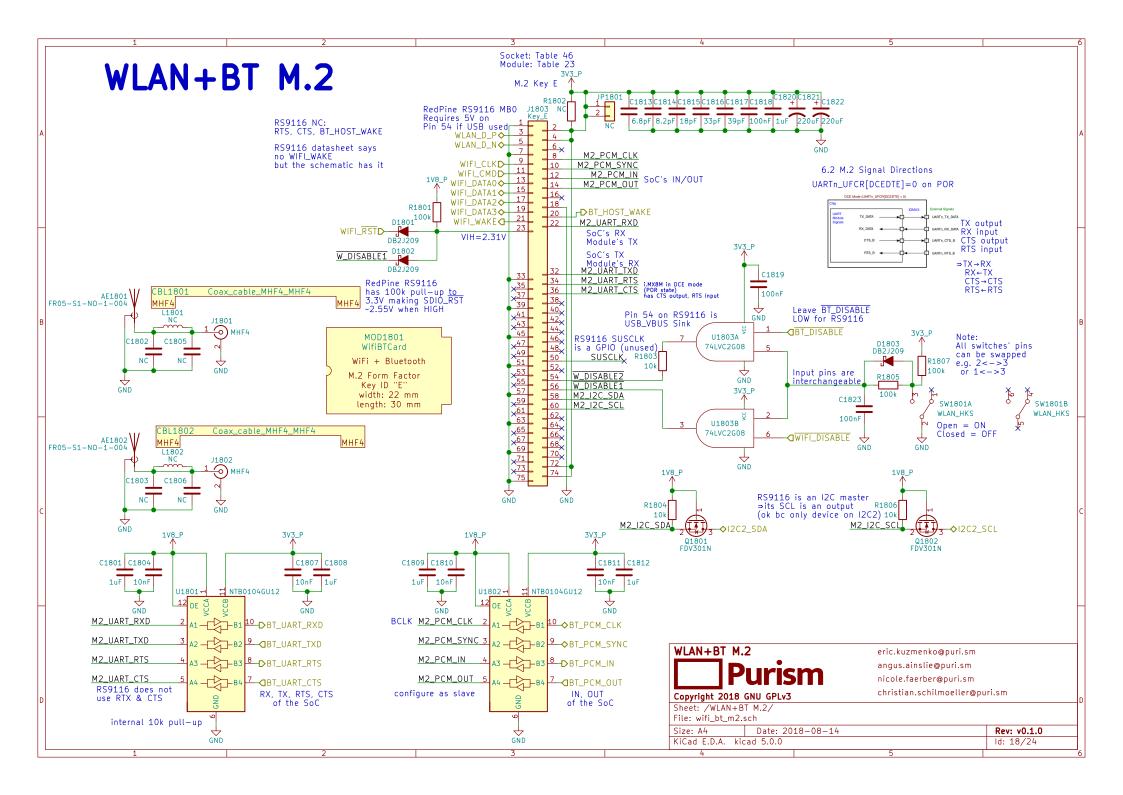












1 2 3 4 5
TUSB1046 can be used for DP over USB-C

### **HDMI**

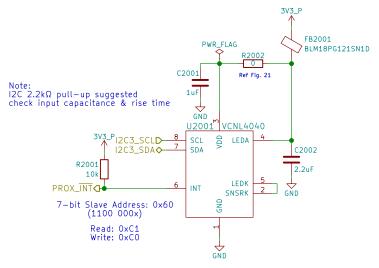






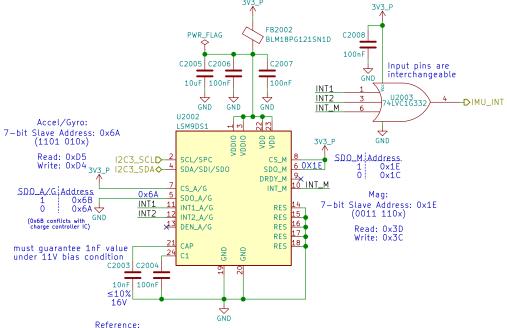
### **Sensors**

### Proximity & Ambient Light

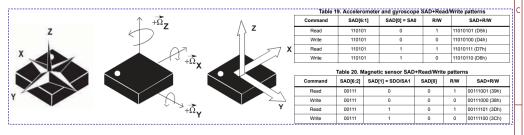


Reference: https://www.vishay.com/docs/84307/designingvcnl4040.pdf http://www.vishay.com/docs/84931/vcnl4040sensorboardfiles.pdf

#### 9-Axis IMU



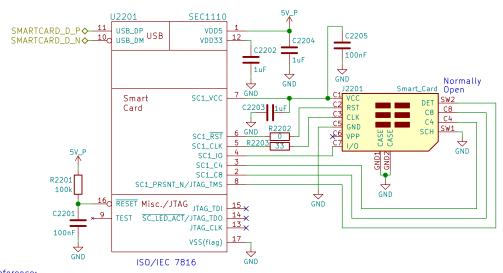
http://www.st.com/en/evaluation-tools/steval-mki159v1.html







### **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

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Sheet: /Haptic Motor/ File: haptic.sch

Size: A4 Date: 2018-08-14 Rev: v0.1.0 KiCad E.D.A. kicad 5.0.0 ld: 24/24