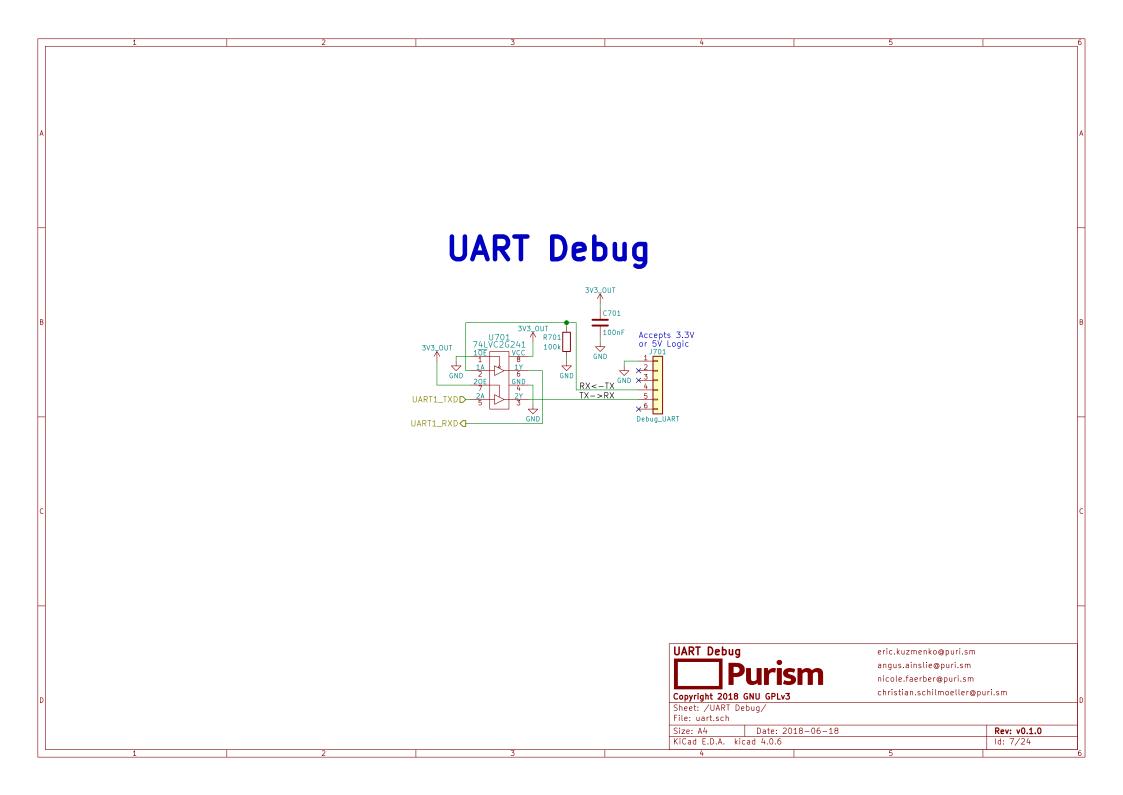
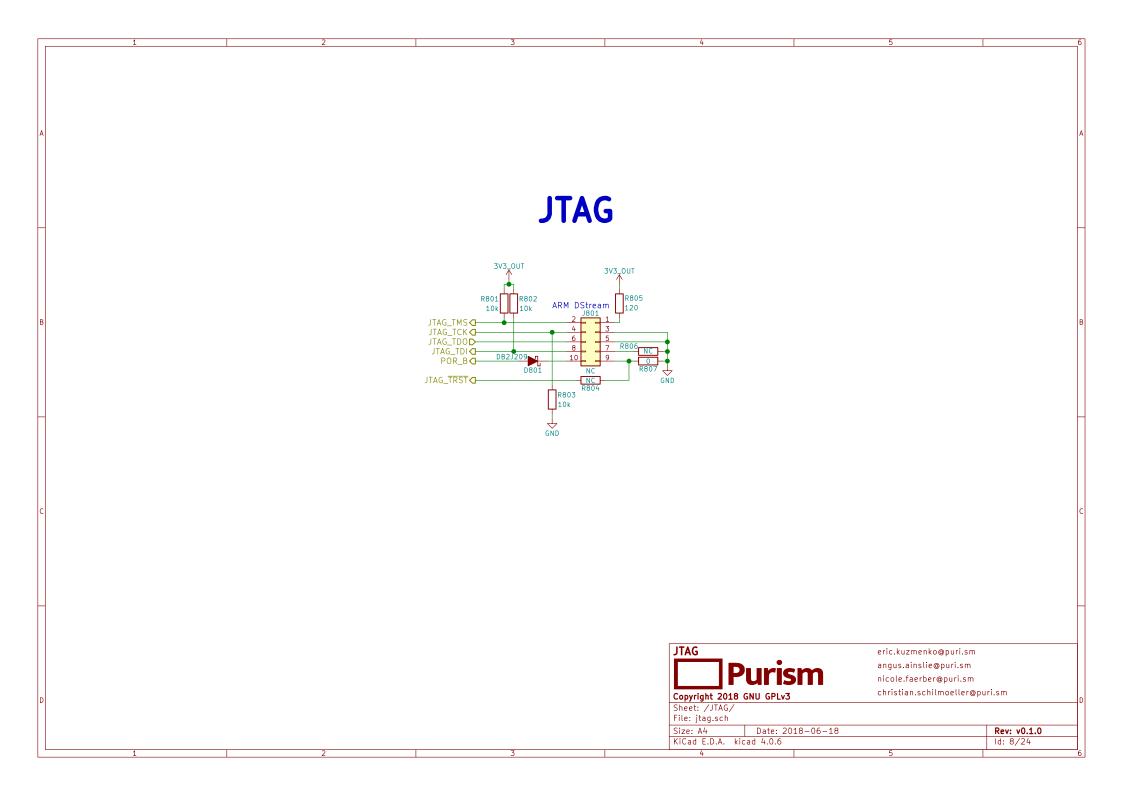
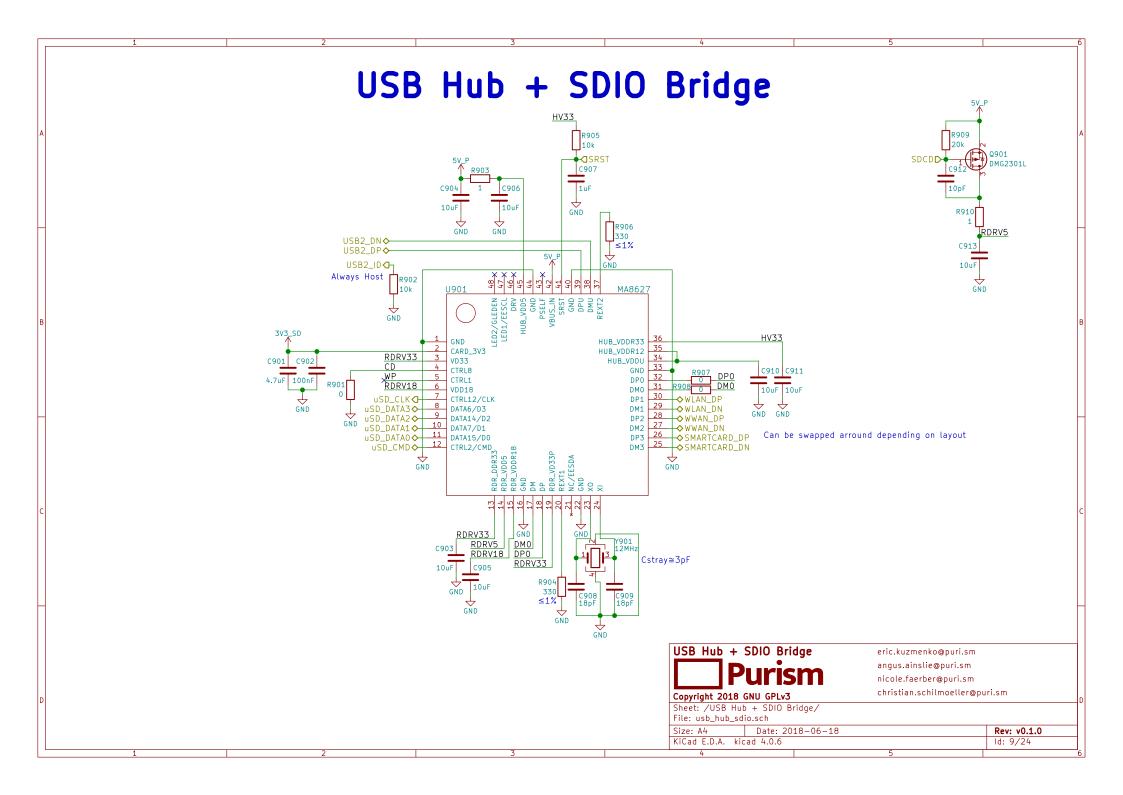


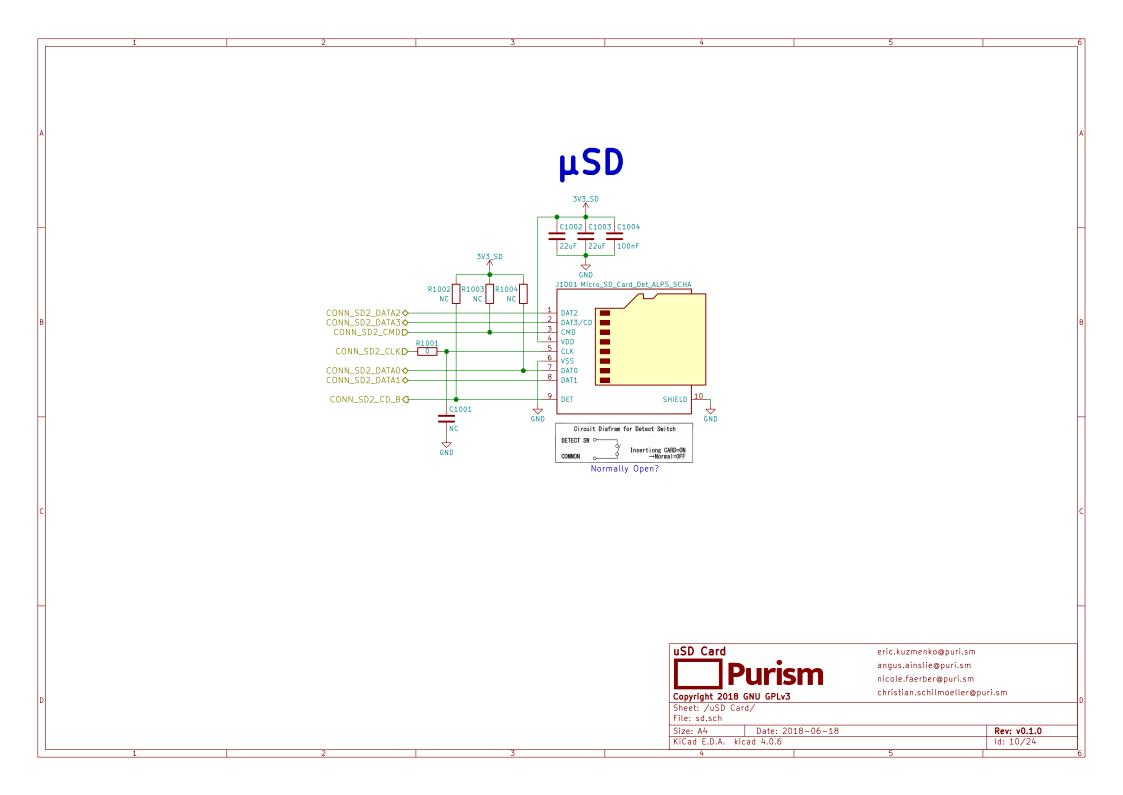
Reference: https://github.com/HIO-Project/linux-imx6-nano-imx\_3.10.17\_1.0.1\_ga/blob/8848e94b2f889fe44f6736e2d4c98851a2282275/arch/arm/boot/dts/imx6qdl-mtp.dtsi#L351



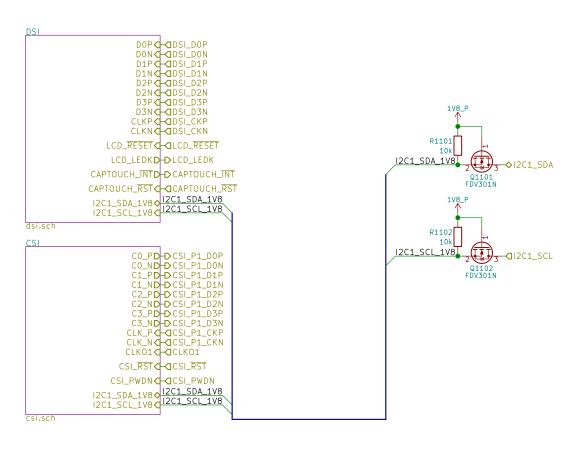




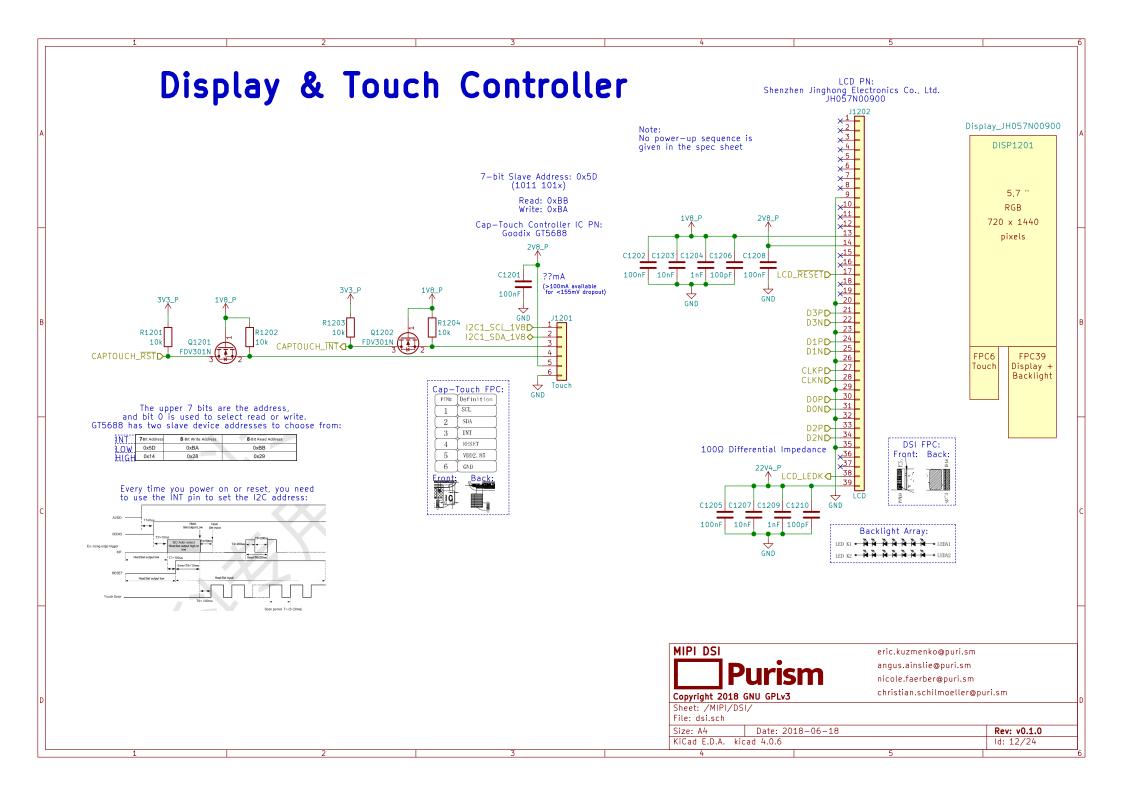


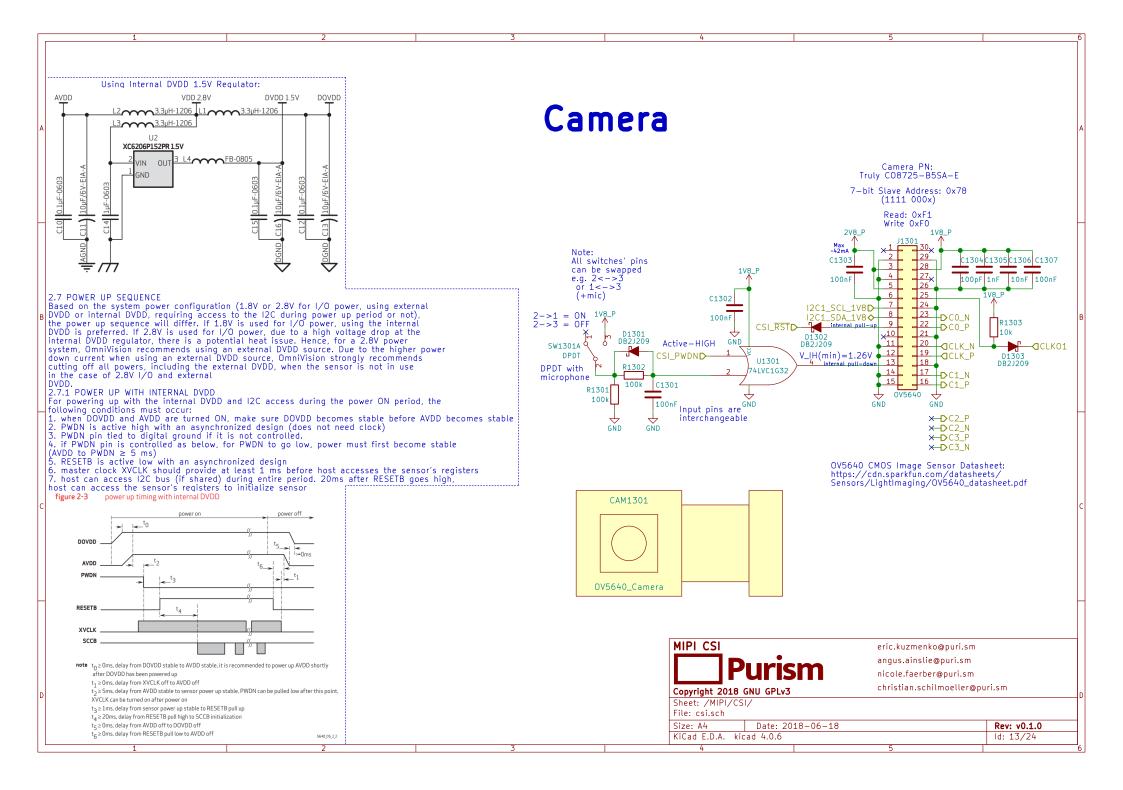


## **MIPI**

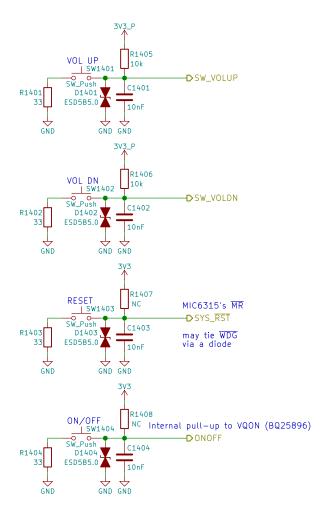


MIPI			eric.kuzmenko@	puri.sm	
			angus.ainslie@p	uri.sm	
Purism			nicole.faerber@puri.sm		
Copyright 2018	right 2018 GNU GPLv3 christian.schilmoeller@puri.sm		oeller@puri.sm		
Sheet: /MIPI/					
File: mipi.sch					
Size: A4	Date: 20	18-06-18		Rev: v0.1.0	
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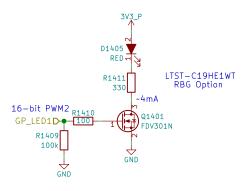




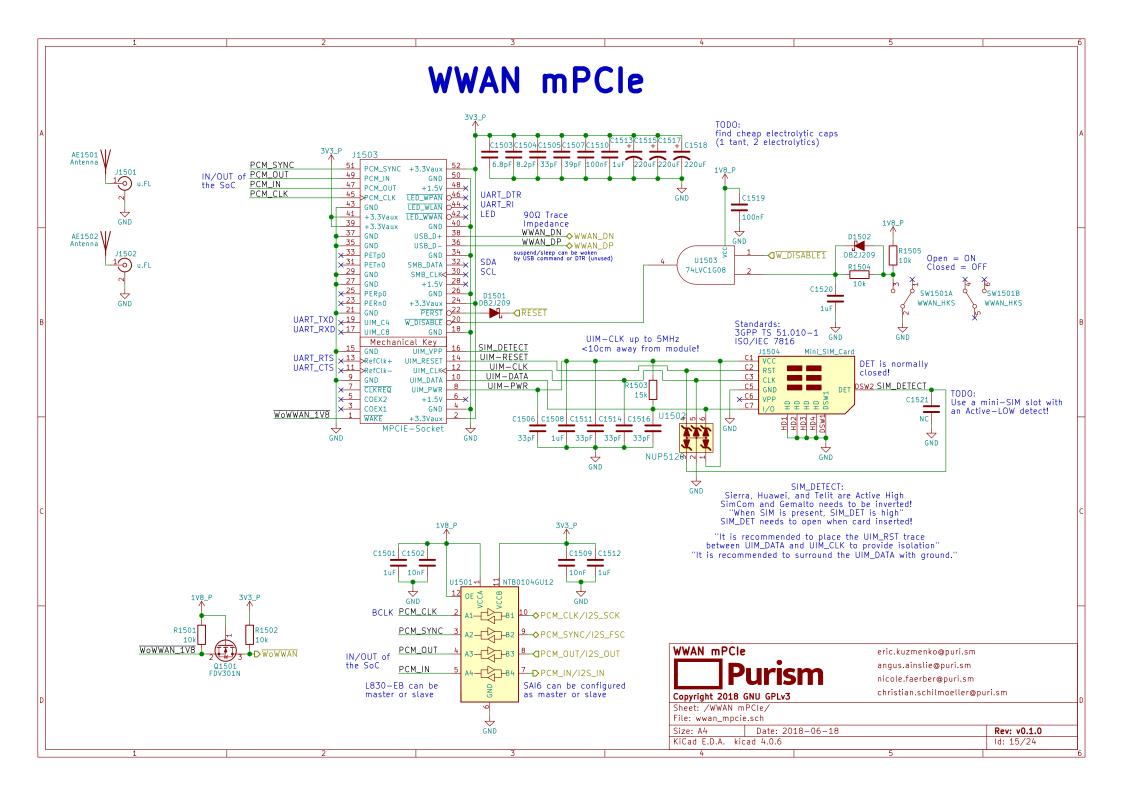
## **Buttons & LED**

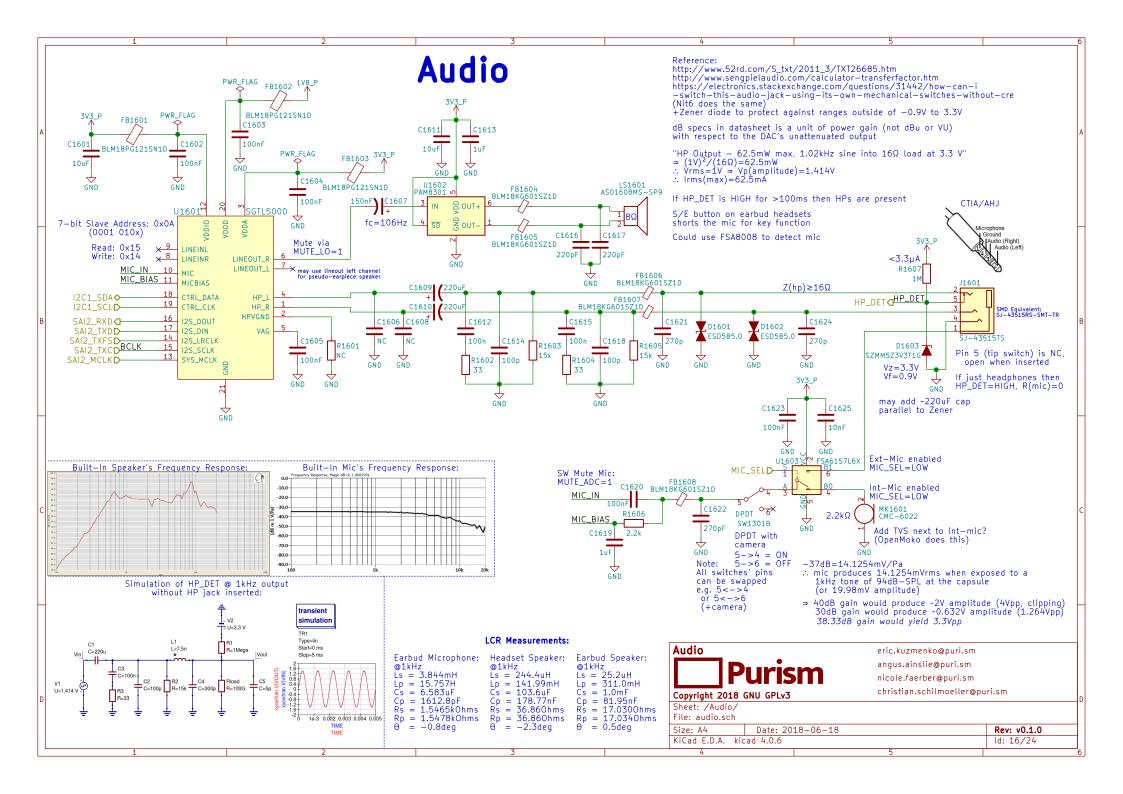


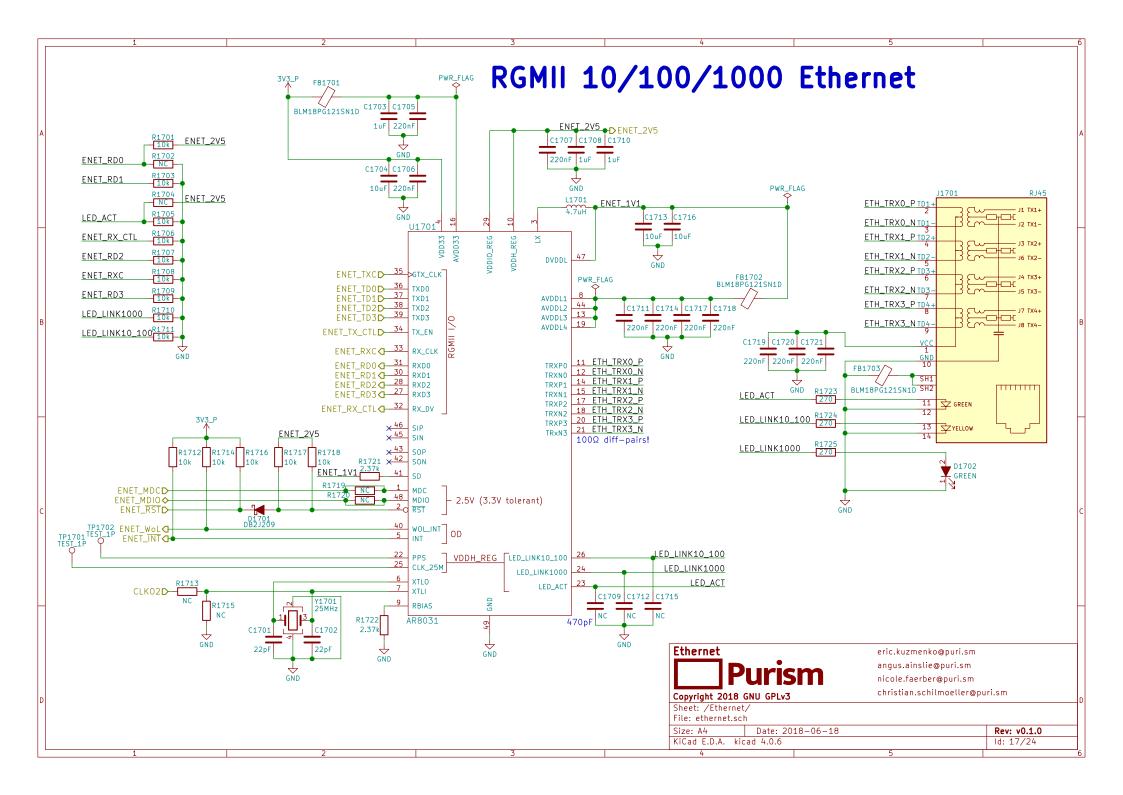
Use PWM2\_PWMSAR to set the compare value (duty cycle)
Use PWM2\_PWMCR[15:4] to set the PRESCALER (frequency)
Use PWM2\_PWMPR to set the top of the counter (frequency)

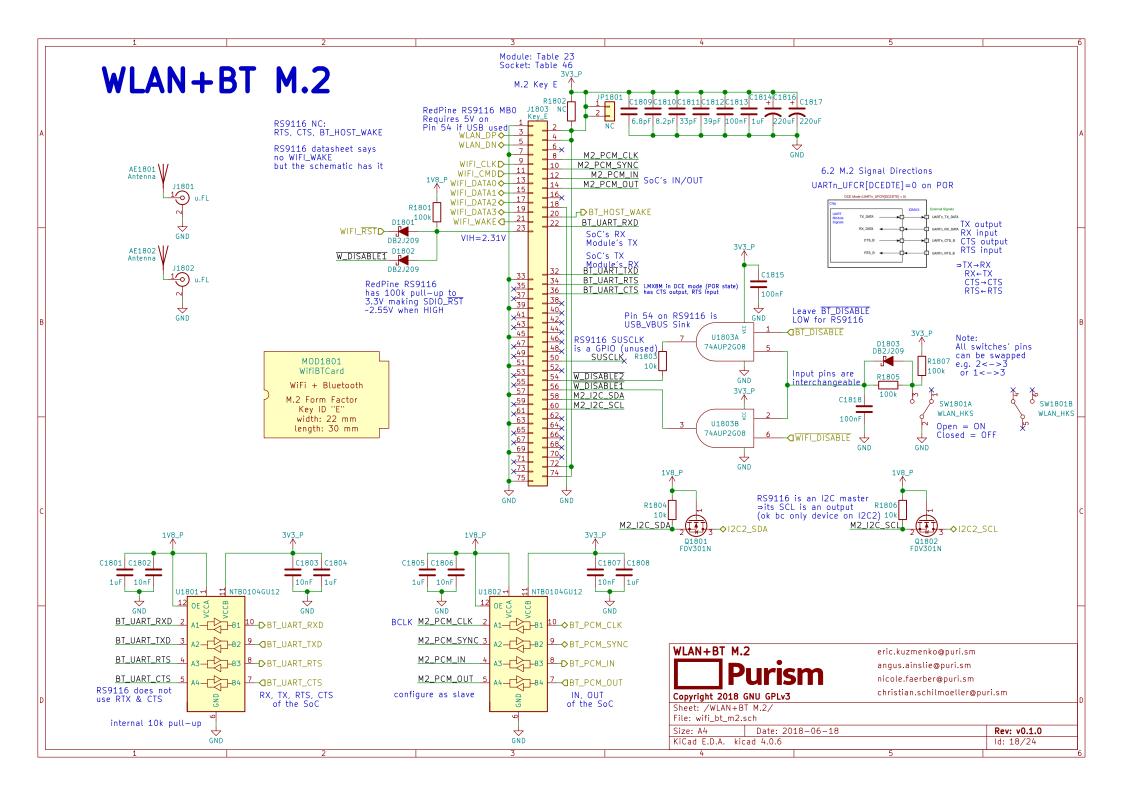


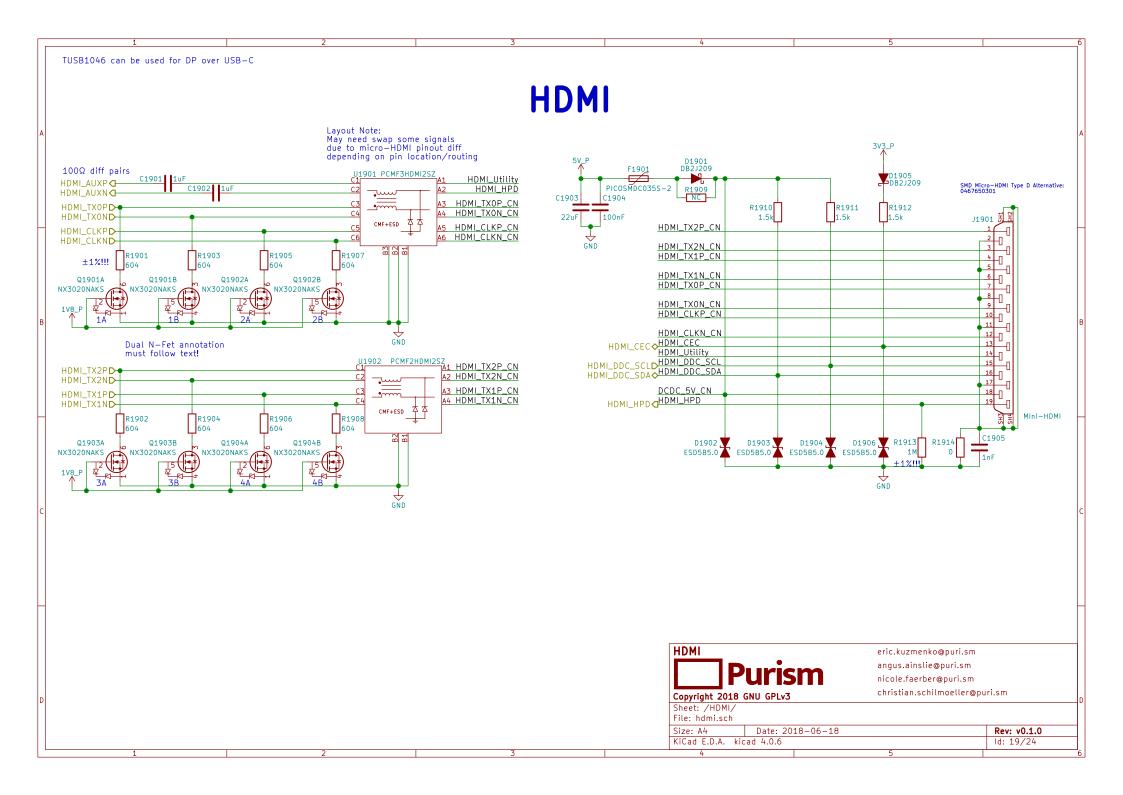
Buttons & LED	eric.kuzmenko@puri.sm angus.ainslie@puri.sm nicole.faerber@puri.sm		
Duriem			
Purism			
Copyright 2018 GNU GPLv3	christian.schilmoeller@puri.sm		
Sheet: /Buttons & LED/ File: buttons_led.sch			
Size: A4 Date: 2018-06-18	Rev: v0.1.0		
KiCad E.D.A. kicad 4.0.6	ld: 14/24		





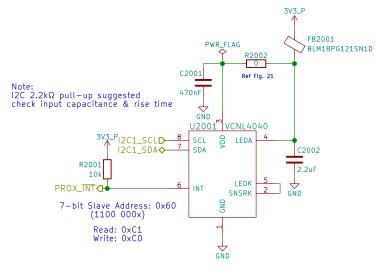






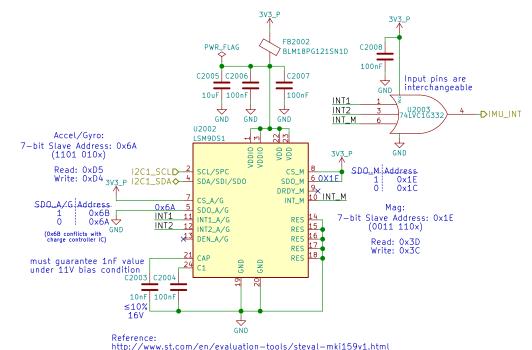
### **Sensors**

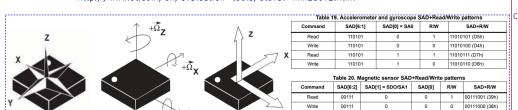
### Proximity & Ambient Light



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

#### 9-Axis IMU







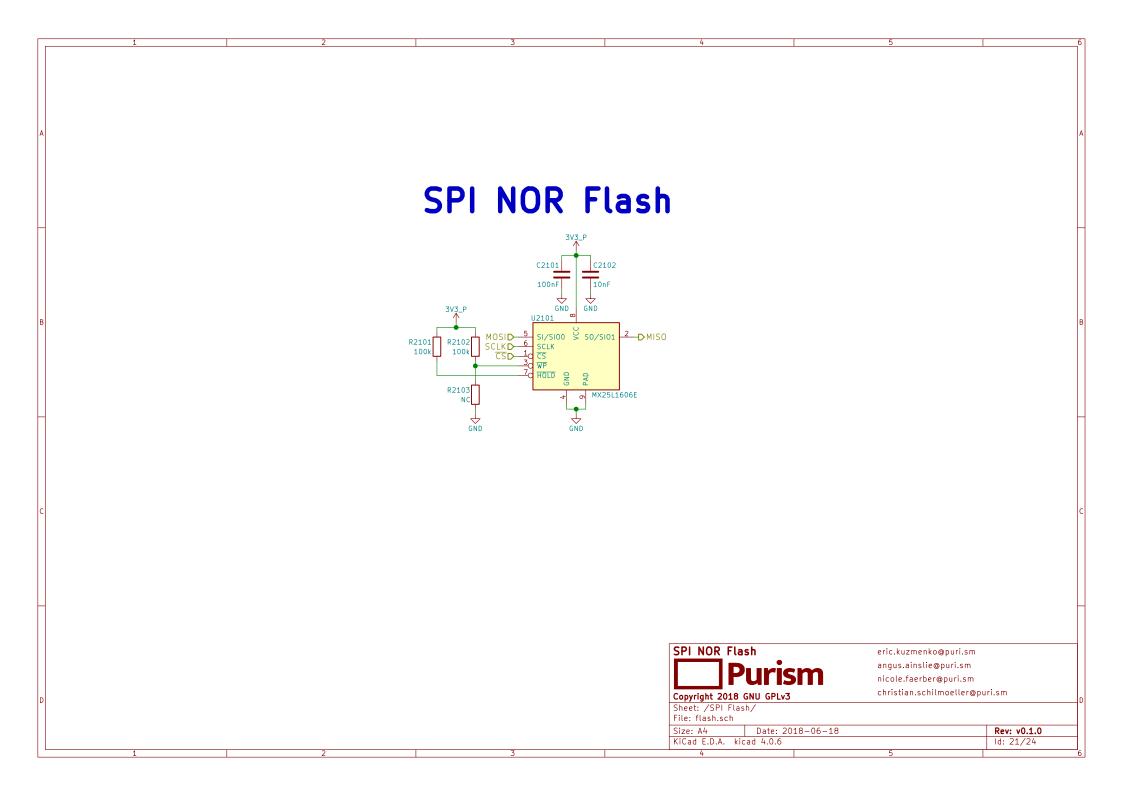
Read

Write

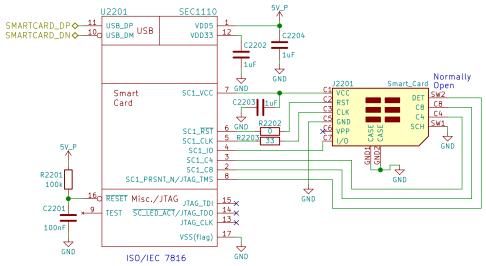
00111

00111

1 00111101 (3Dh) 0 00111100 (3Ch)

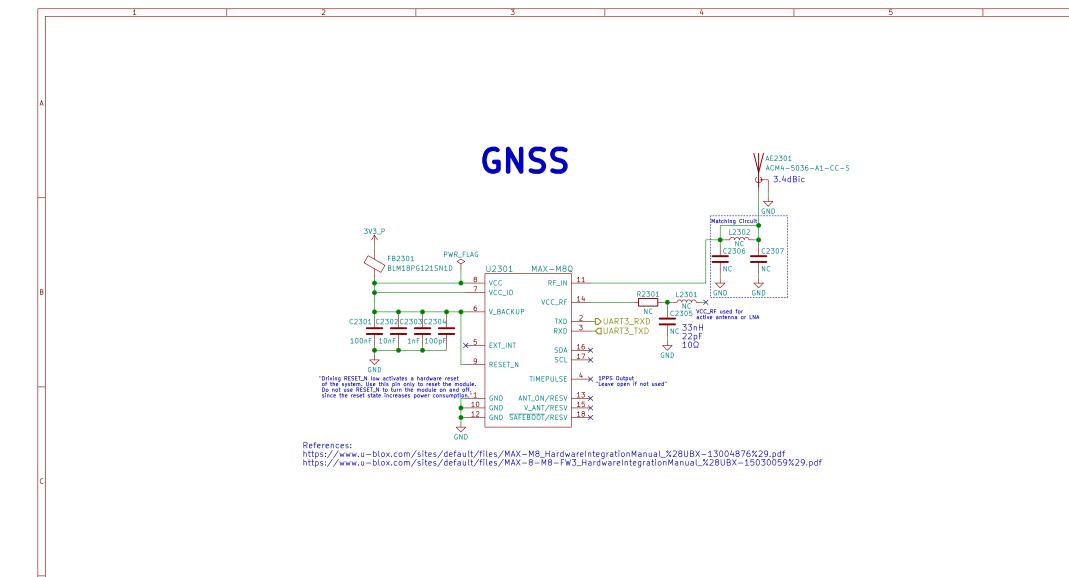


### **Smart Card**



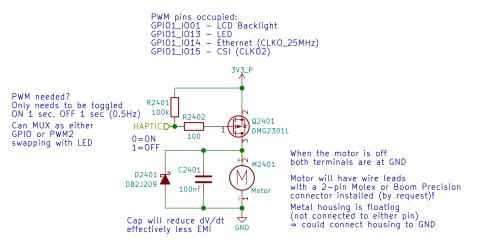
Reference: http://www.microchip.com/DevelopmentTools/ProductDetails.aspx?PartNO=EVB-SEC1110







# **Haptic Motor**



 $\label{lem:cheaper Motor Connector: https://lcsc.com/product-detail/1-25T-Connectors\_1-25T-1-2AW\_C10832.html \\$ 

Motor Source: https://www.alibaba.com/product-detail/Coin-motor-vibration-dc-motor cellphone\_1994583657.html?spm=a2700.8443308.0.0.5aa13e5f1wxHgs Motor Datasheet: https://cloud.puri.sm/s/z8JR6DJ4KrJYzoW Motor PN: BY0820Z021L20

tion Motor	eric.kuzmenko⊚puri.sm angus.ainslie⊚puri.sm nicole.faerber⊚puri.sm				
urism					
Copyright 2018 GNU GPLv3 christian.schilmoe					
Sheet: /Haptic Motor/					
File: haptic.sch					
Date: 2018-06-18		Rev: v0.1.0			
KiCad E.D.A. kicad 4.0.6					
	Urism GNU GPLv3 lotor/ Date: 2018-06-18	angus.ainslie@puri.sm nicole.faerber@puri.sm christian.schilmoeller@pu lotor/  Date: 2018-06-18			