



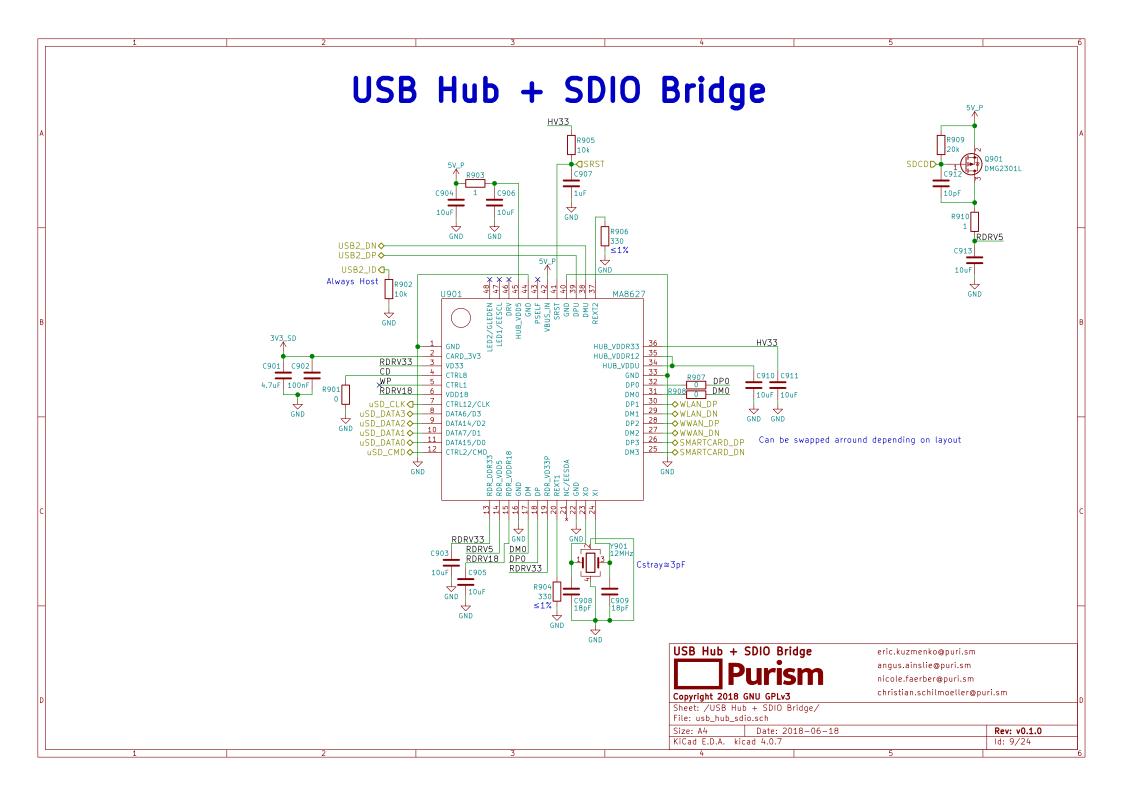


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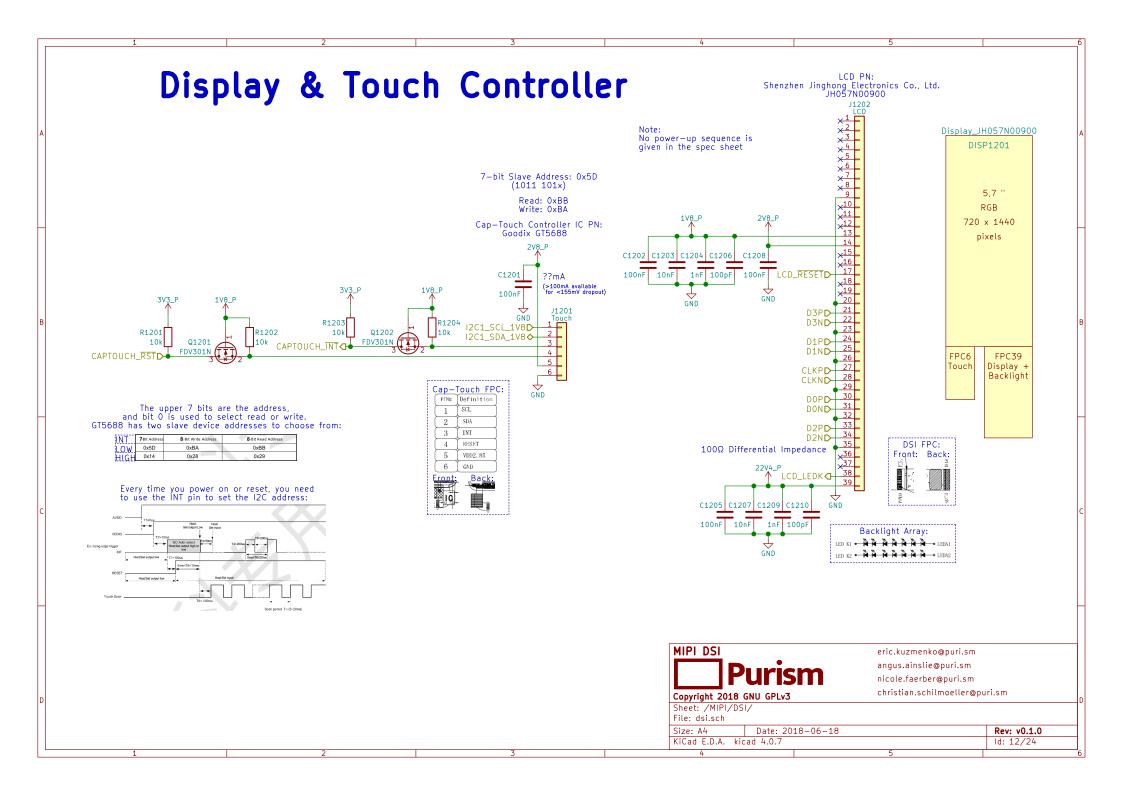


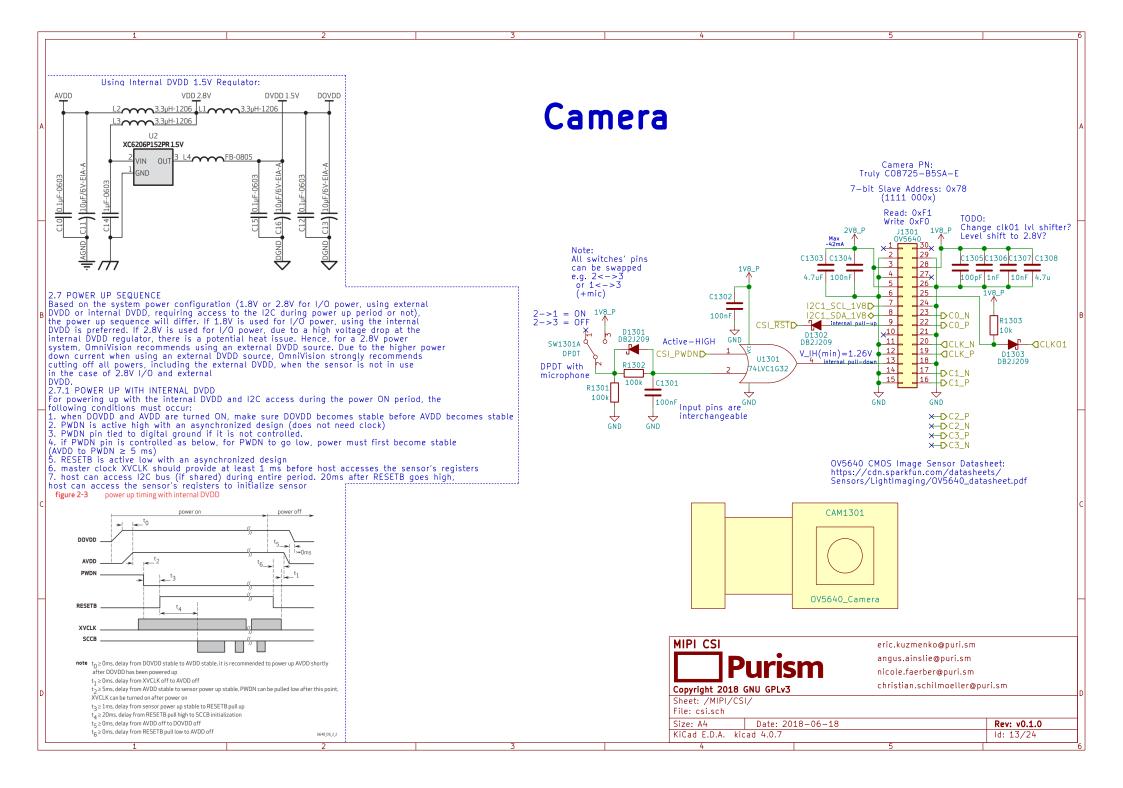


## **MIPI**

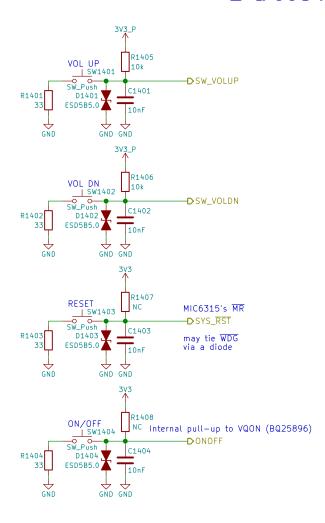


MIPI			eric.kuzmenko@	puri.sm	
Purism			angus.ainslie@puri.sm nicole.faerber@puri.sm		
Copyright 2018 GNU GPLv3			christian.schilmoeller@puri.sm		
Sheet: /MIPI/ File: mipi.sch					
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h			5	<u>'</u>	

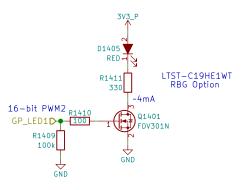




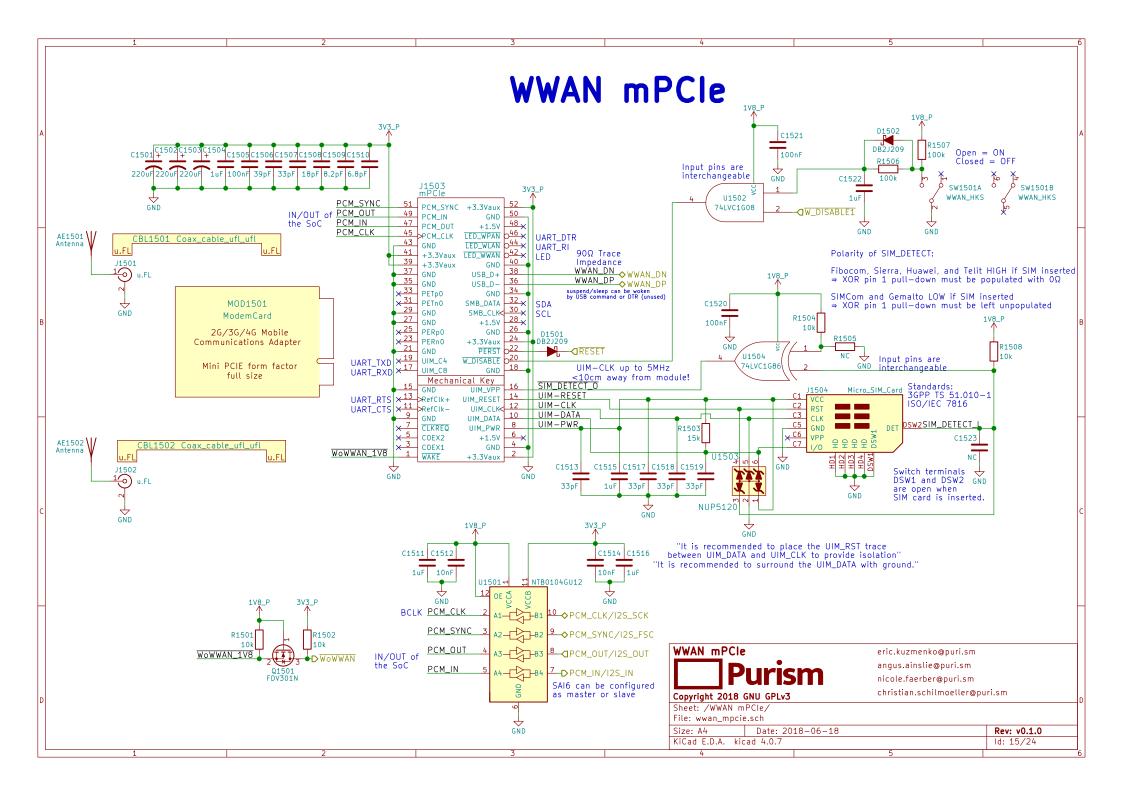
## **Buttons & LED**

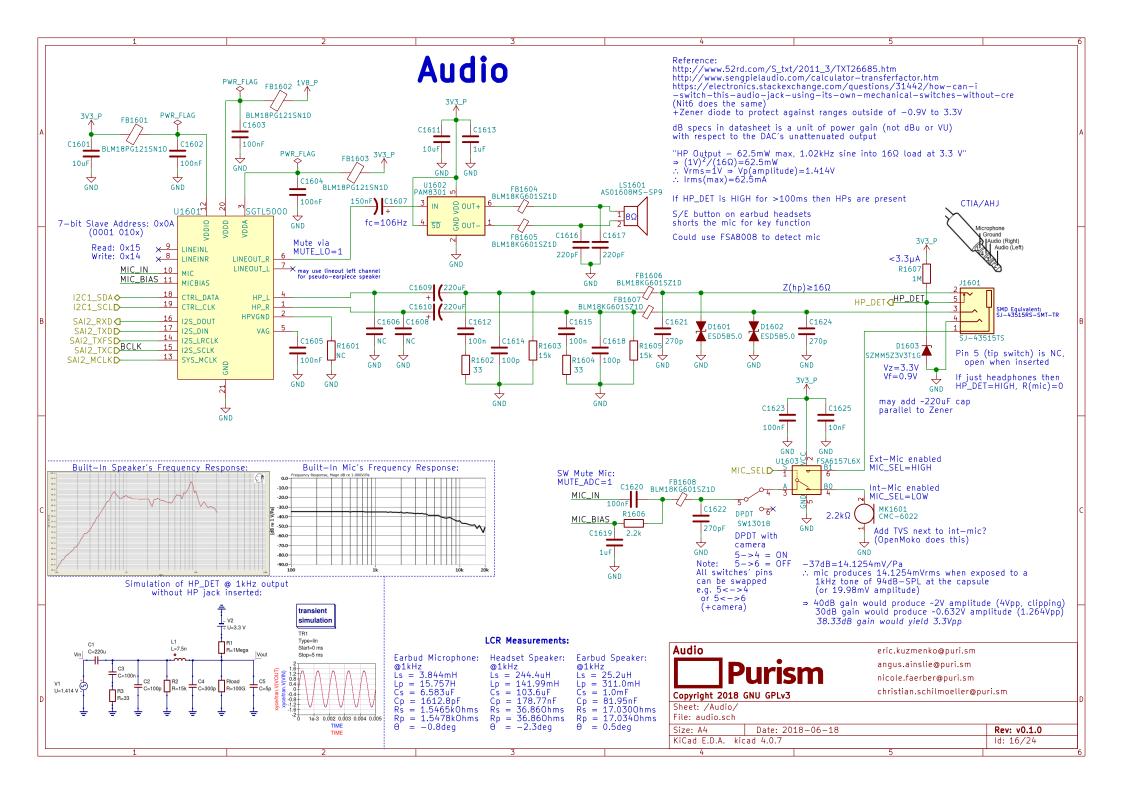


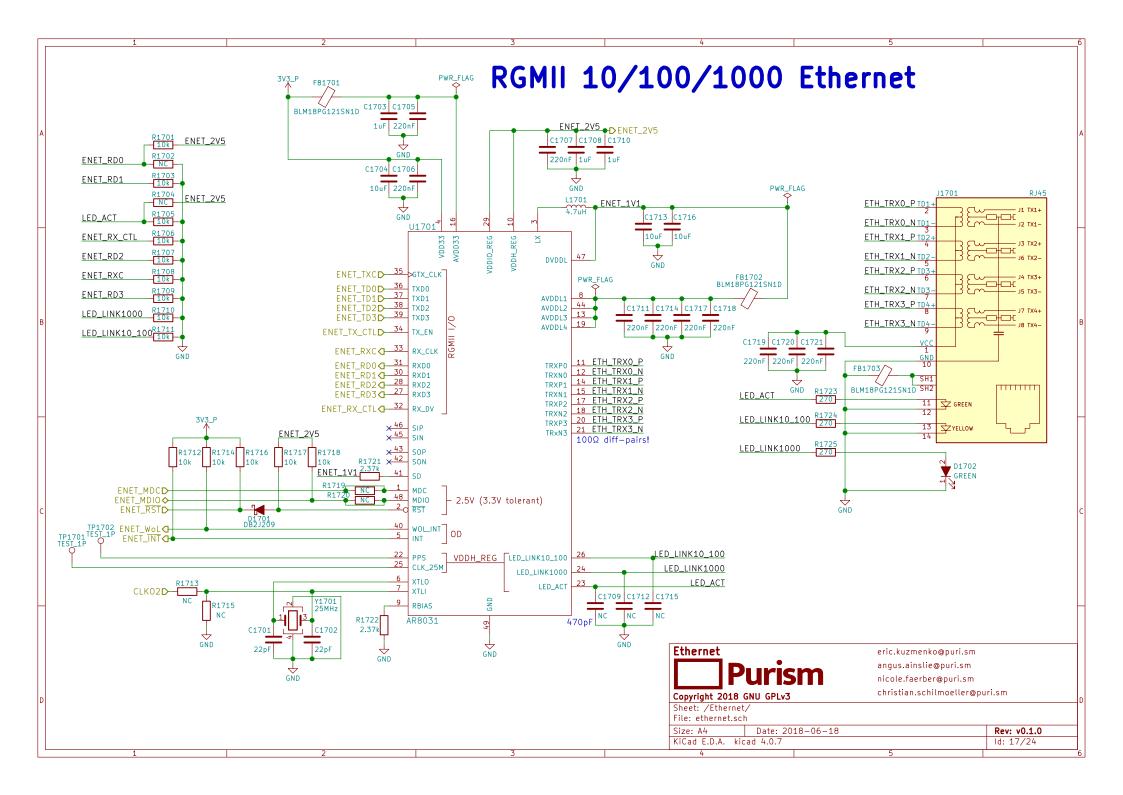
Use PWM2\_PWMSAR to set the compare value (duty cycle)
Use PWM2\_PWMCR[15:4] to set the PRESCALER (frequency)
Use PWM2\_PWMPR to set the top of the counter (frequency)

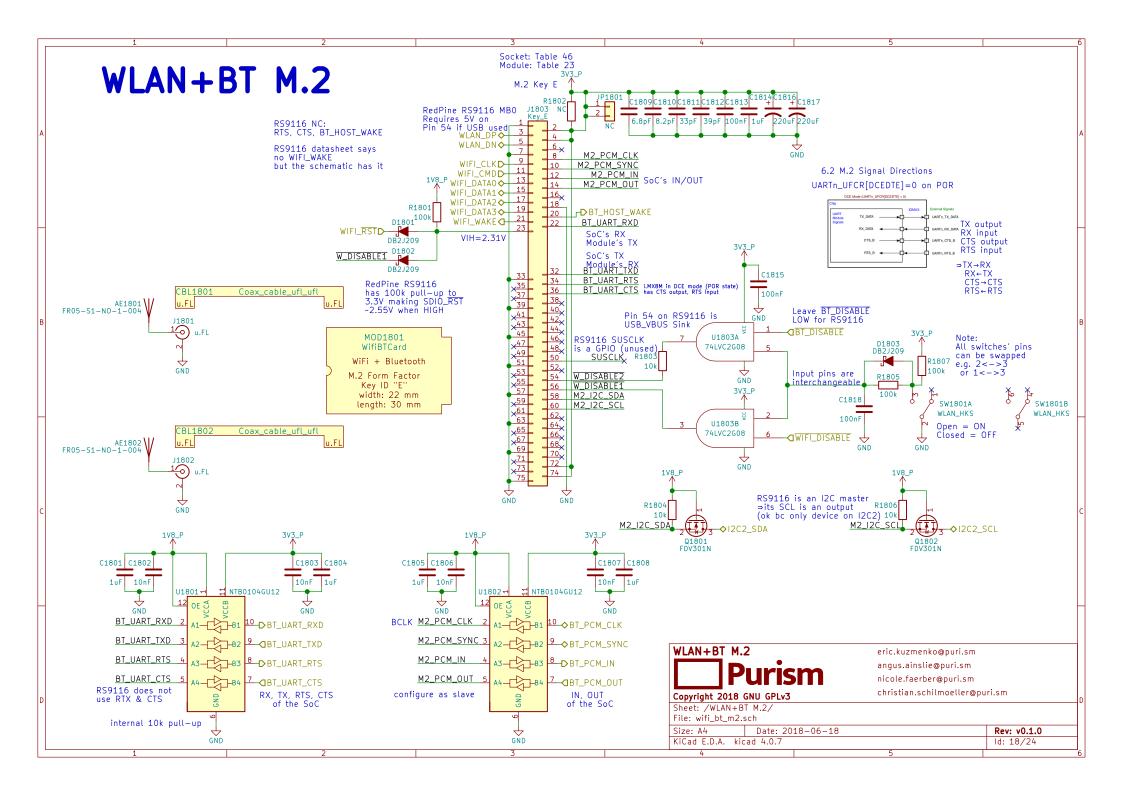


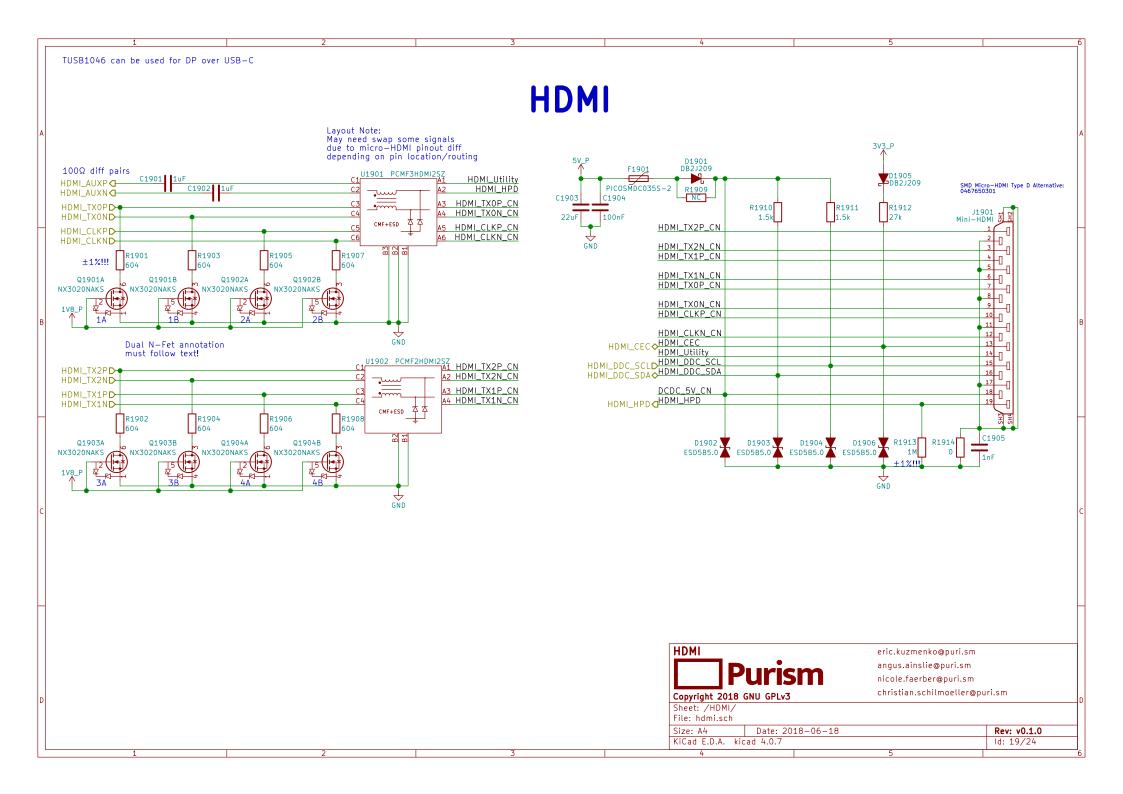






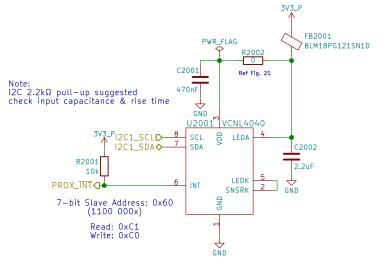






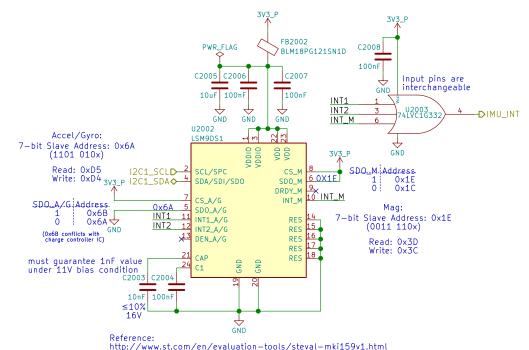
### **Sensors**

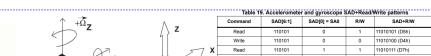
### Proximity & Ambient Light



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

#### 9-Axis IMU



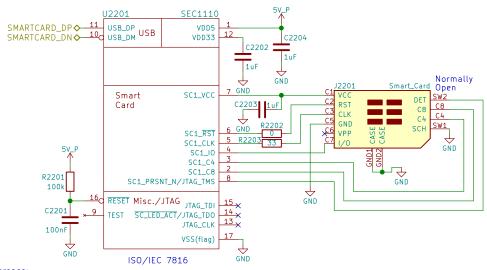


+Ω,	Write	11010	1 1	0	11010	110 (D6h)	
	•	Table 20. M	agnetic sensor SAD	+Read/Writ	e pattern	s	
	Command	SAD[6:2]	SAD[1] = SDO/SA1	SAD[0]	R/W	SAD+R/W	
	Read	00111	0	0	1	00111001 (39h)	
7	Write	00111	0	0	0	00111000 (38h)	111
$\vee \rightarrow +\Omega_{\mathbf{V}}$	Read	00111	1	0	1	00111101 (3Dh)	
Ť	Write	00111	1	0	0	00111100 (3Ch)	





### **Smart Card**



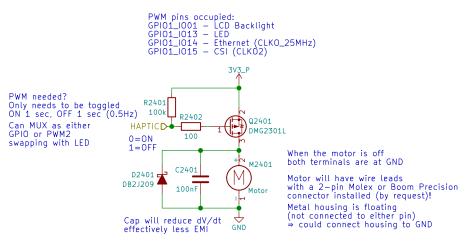
http://www.microchip.com/DevelopmentTools/ProductDetails.aspx?PartNO=EVB-SEC1110







# **Haptic Motor**



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

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II IP	urism					
Copyright 2018	GNU GPLv3	christian.schilmoeller@puri.sm				
Sheet: /Haptic Motor/ File: haptic.sch						
Size: A4	Date: 2018-06-18	Rev: v0.1.0				
KiCad E.D.A. kid	ld: 24/24					