



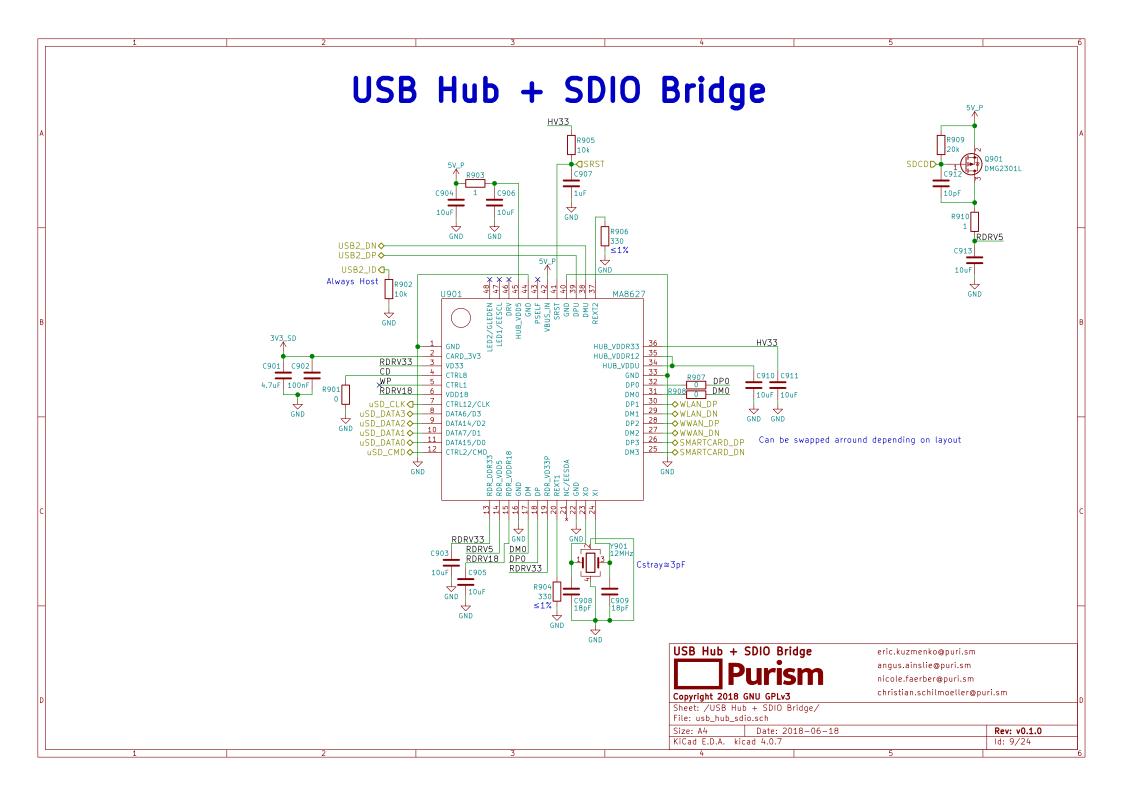


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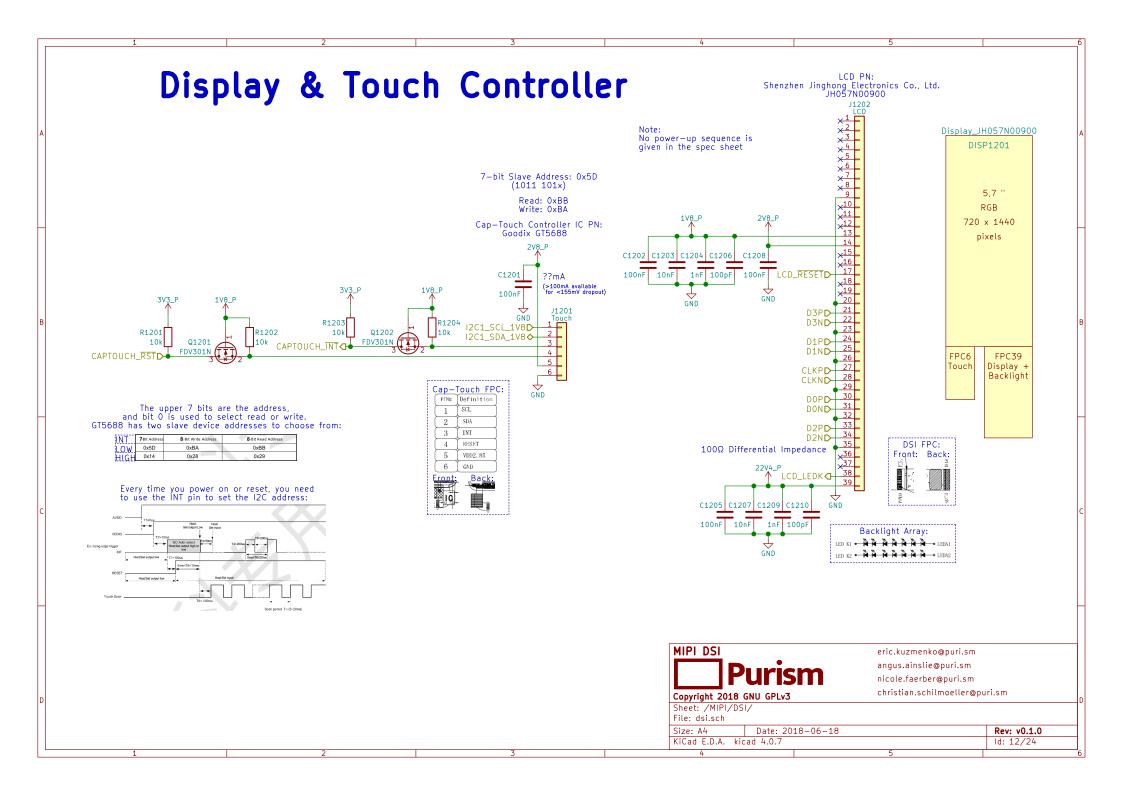


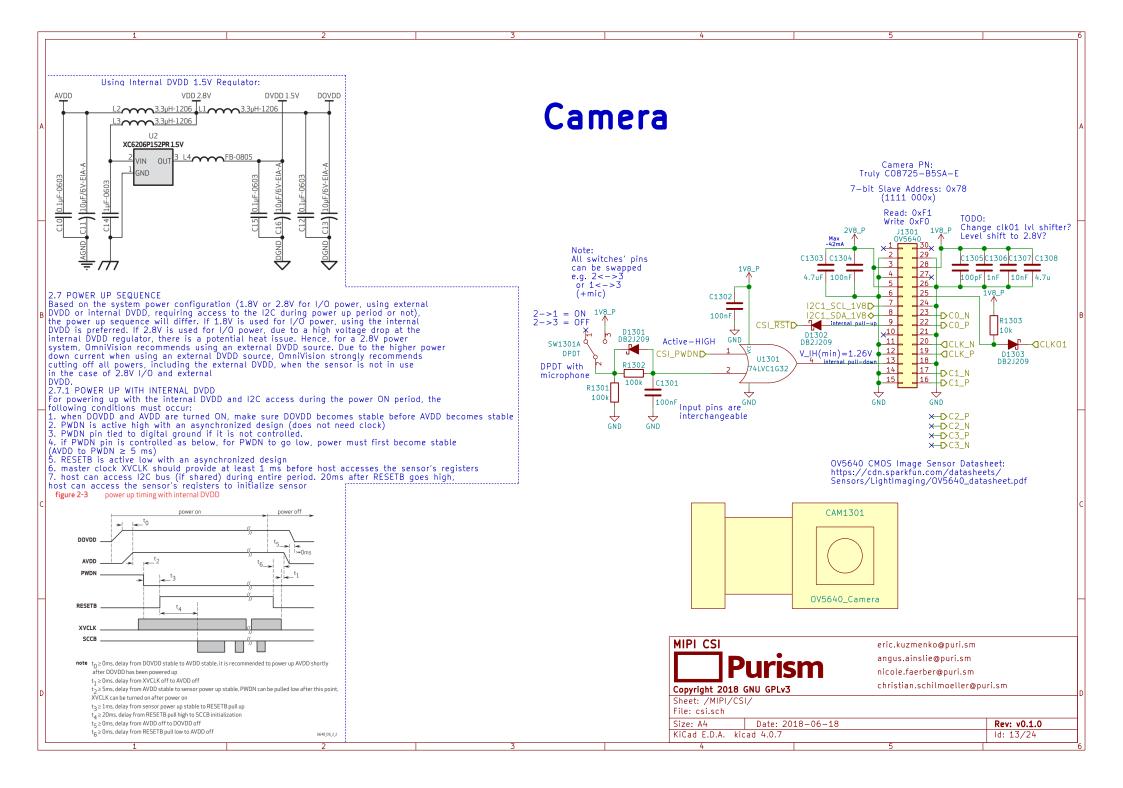


MIPI

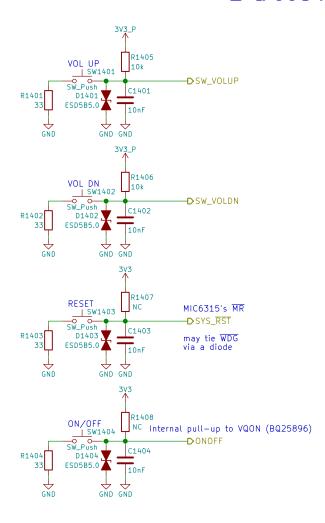


Purism Copyright 2018 GNU GPLv3			eric.kuzmenko@puri.sm angus.ainslie@puri.sm nicole.faerber@puri.sm				
			Sheet: /MIPI/ File: mipi.sch				
Size: A4 Date: 2018-06-18 KiCad E.D.A. kicad 4.0.7				Rev: v0.1.0 Id: 11/24			
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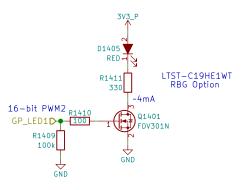




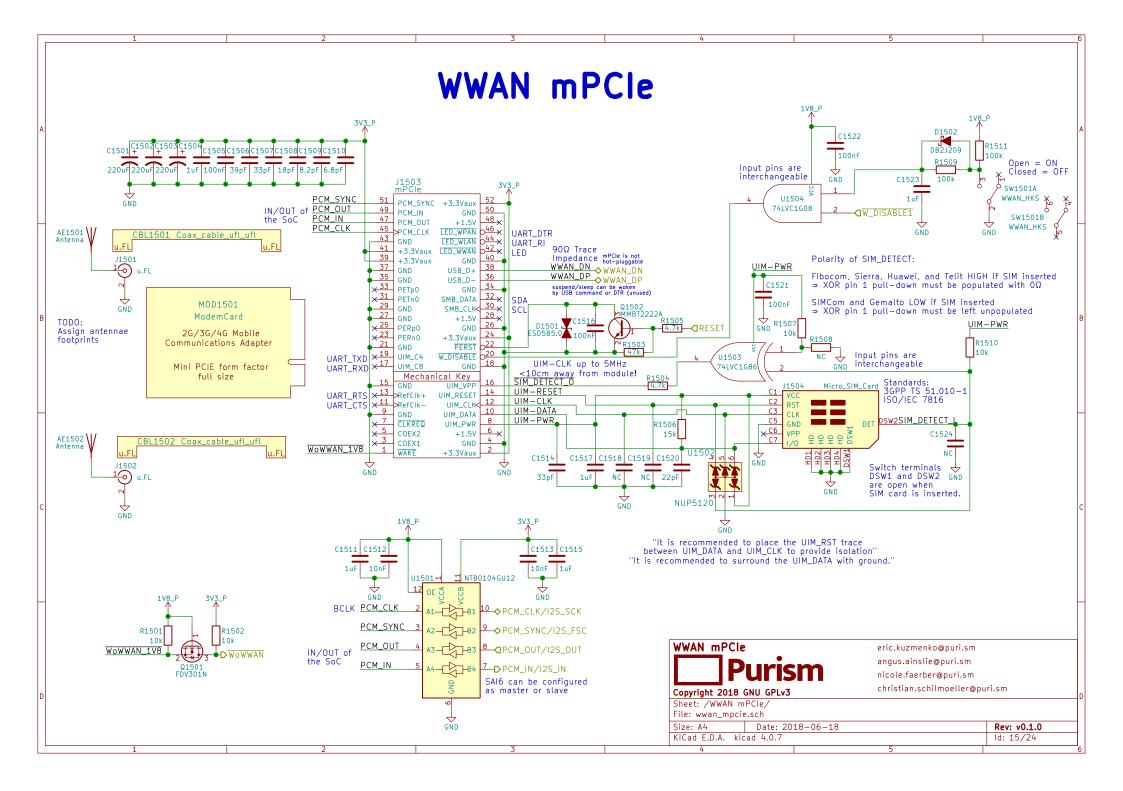
Buttons & LED

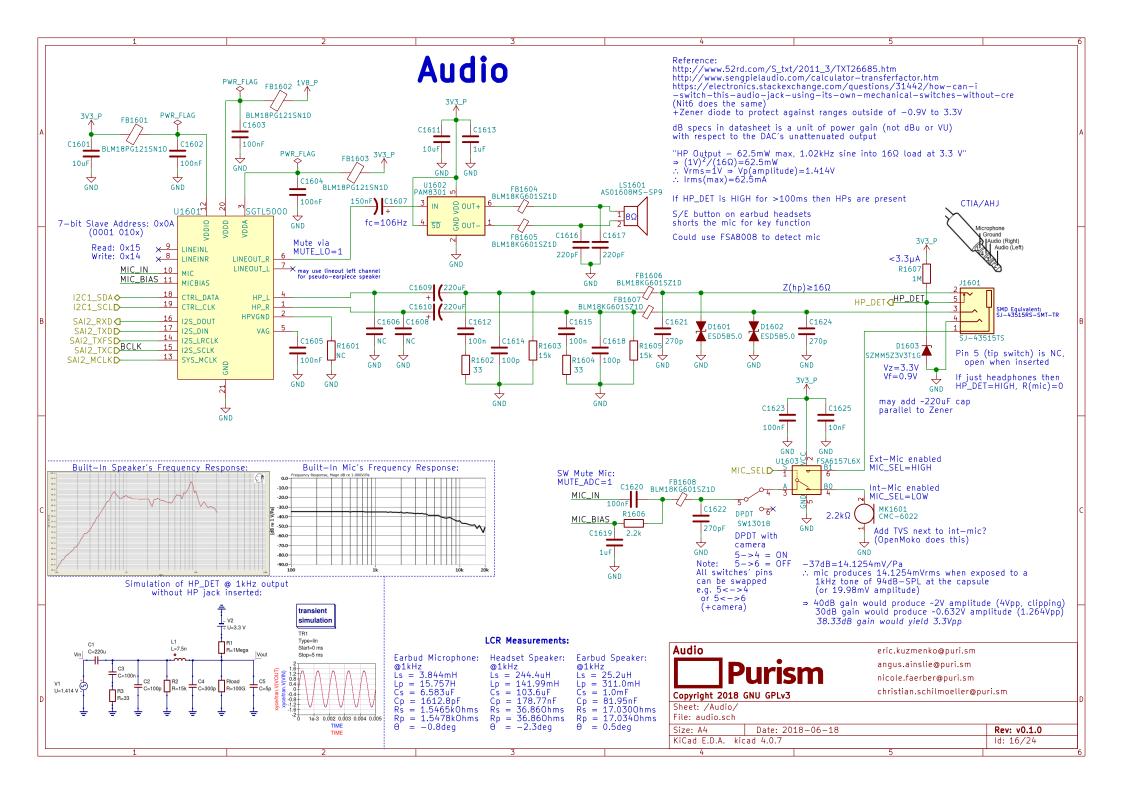


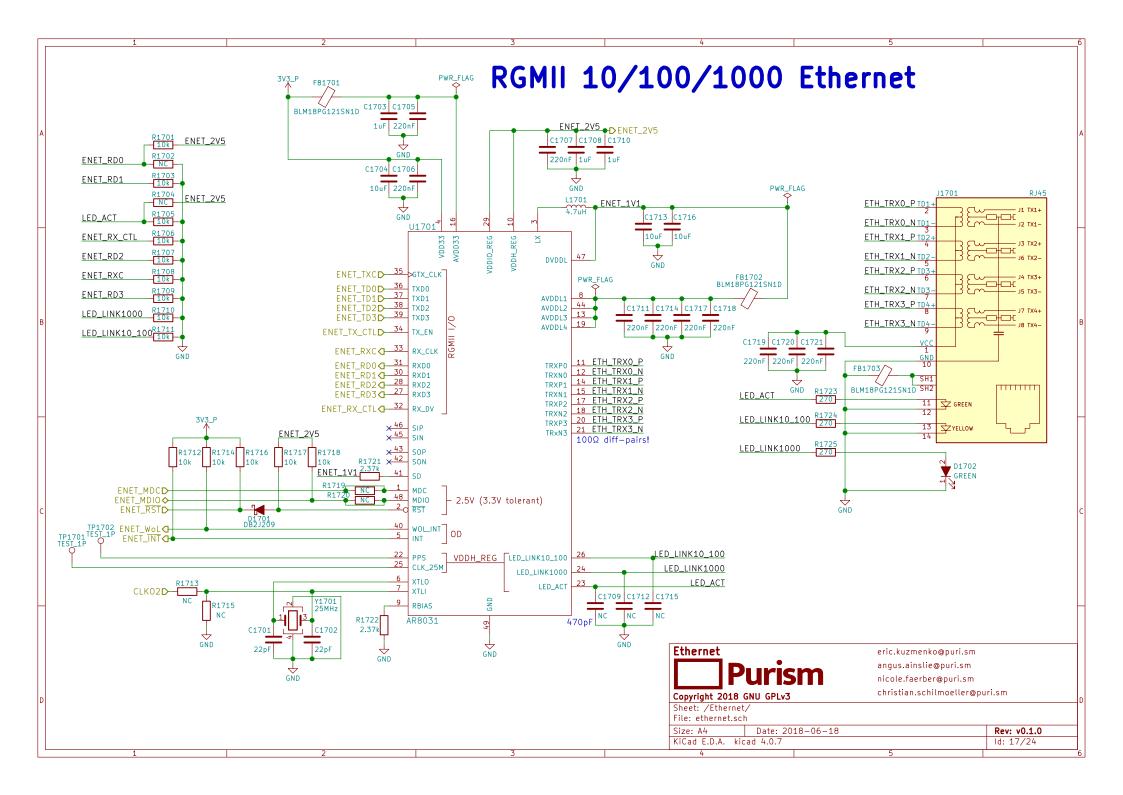
Use PWM2_PWMSAR to set the compare value (duty cycle)
Use PWM2_PWMCR[15:4] to set the PRESCALER (frequency)
Use PWM2_PWMPR to set the top of the counter (frequency)

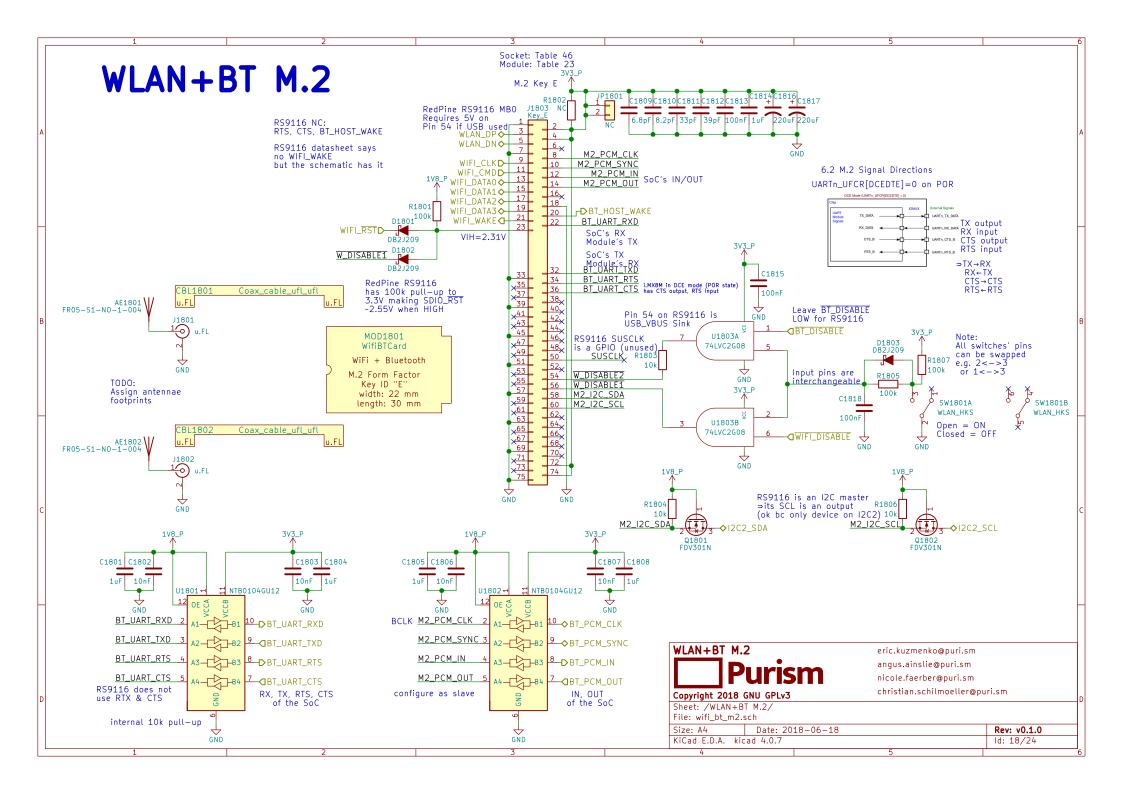


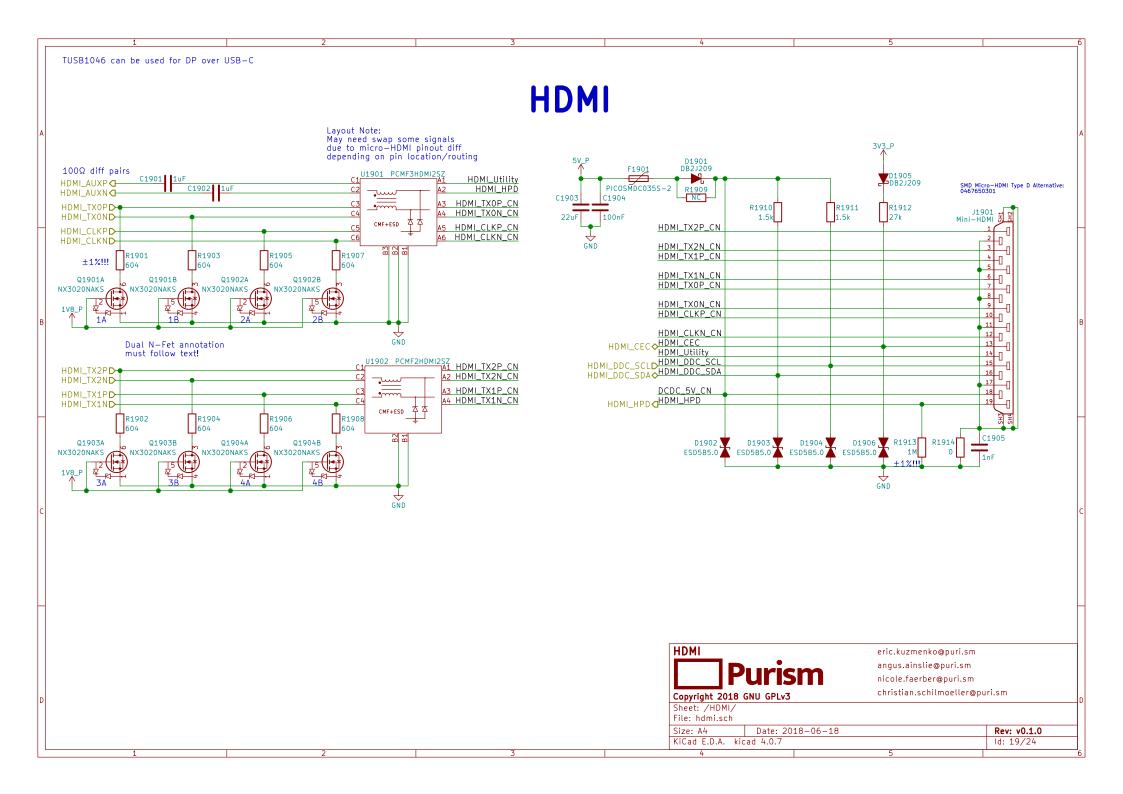






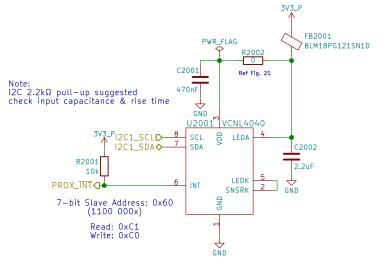






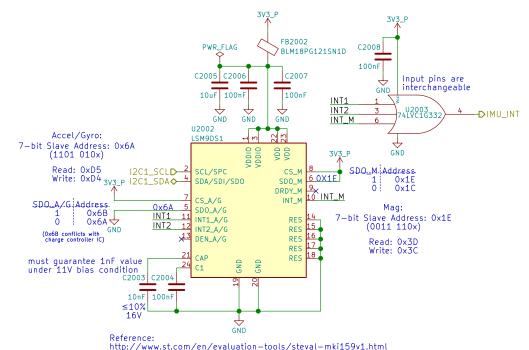
Sensors

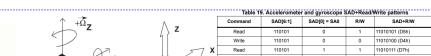
Proximity & Ambient Light



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

9-Axis IMU



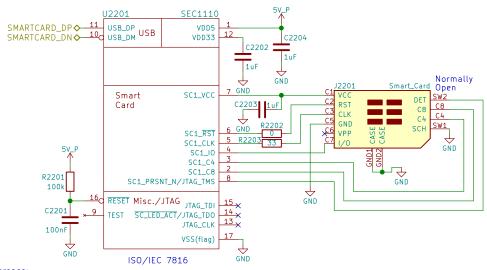


+Ω,	Write	11010	1 1	0	11010	110 (D6h)	
	Table 20. Magnetic sensor SAD+Read/Write patterns						
	Command	SAD[6:2]	SAD[1] = SDO/SA1	SAD[0]	R/W	SAD+R/W	
	Read	00111	0	0	1	00111001 (39h)	
7	Write	00111	0	0	0	00111000 (38h)	
$\vee \rightarrow +\Omega_{\mathbf{V}}$	Read	00111	1	0	1	00111101 (3Dh)	
Ť	Write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





Smart Card



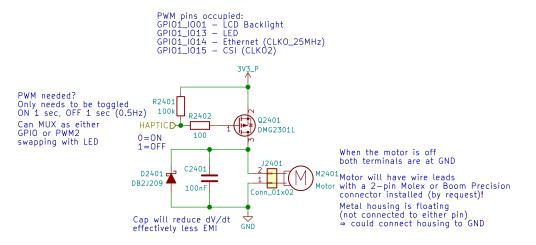
http://www.microchip.com/DevelopmentTools/ProductDetails.aspx?PartNO=EVB-SEC1110







Haptic Motor



 $\label{lem:cheaper Motor Connector: https://lcsc.com/product-detail/1-25T-Connectors_1-25T-1-2AW_C10832.html \\$

