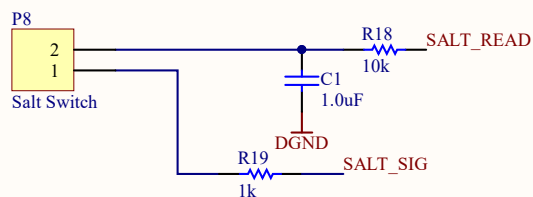
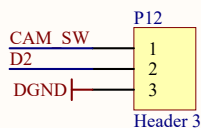
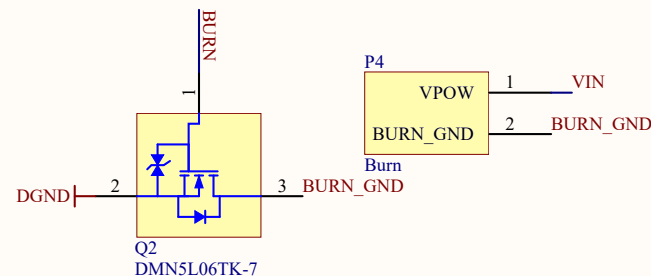
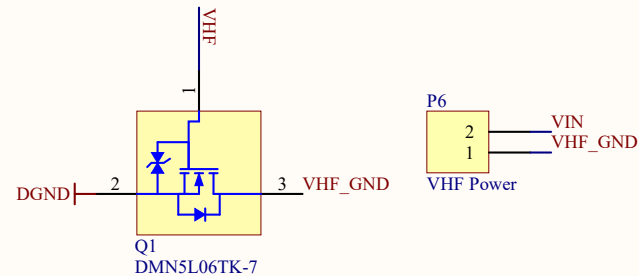
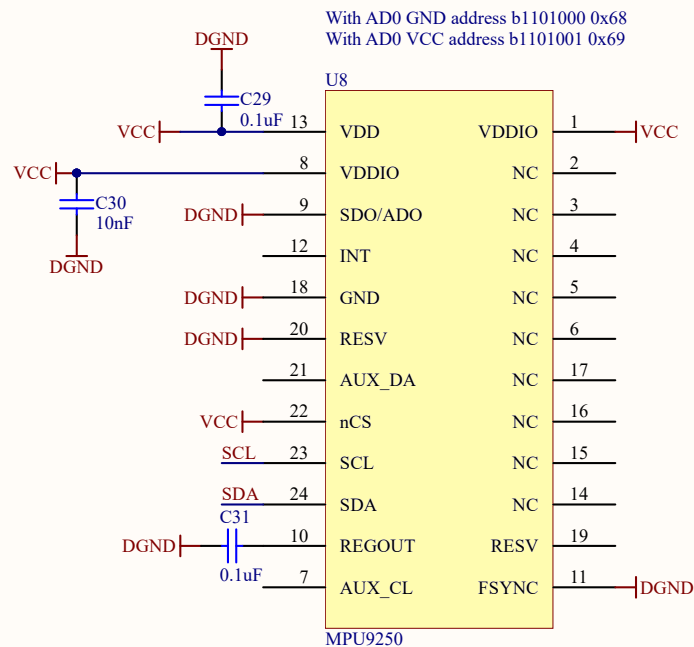
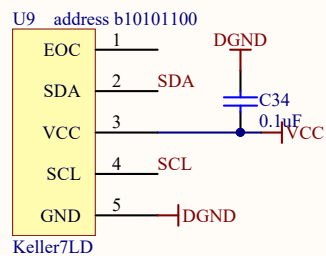
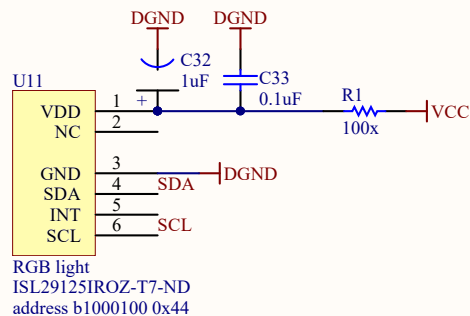
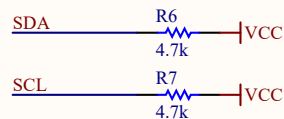
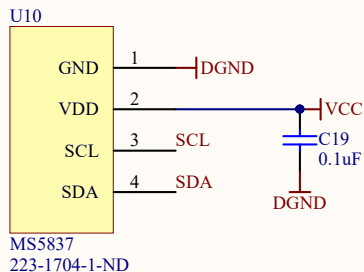
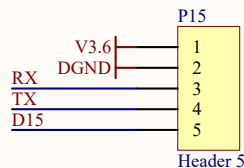


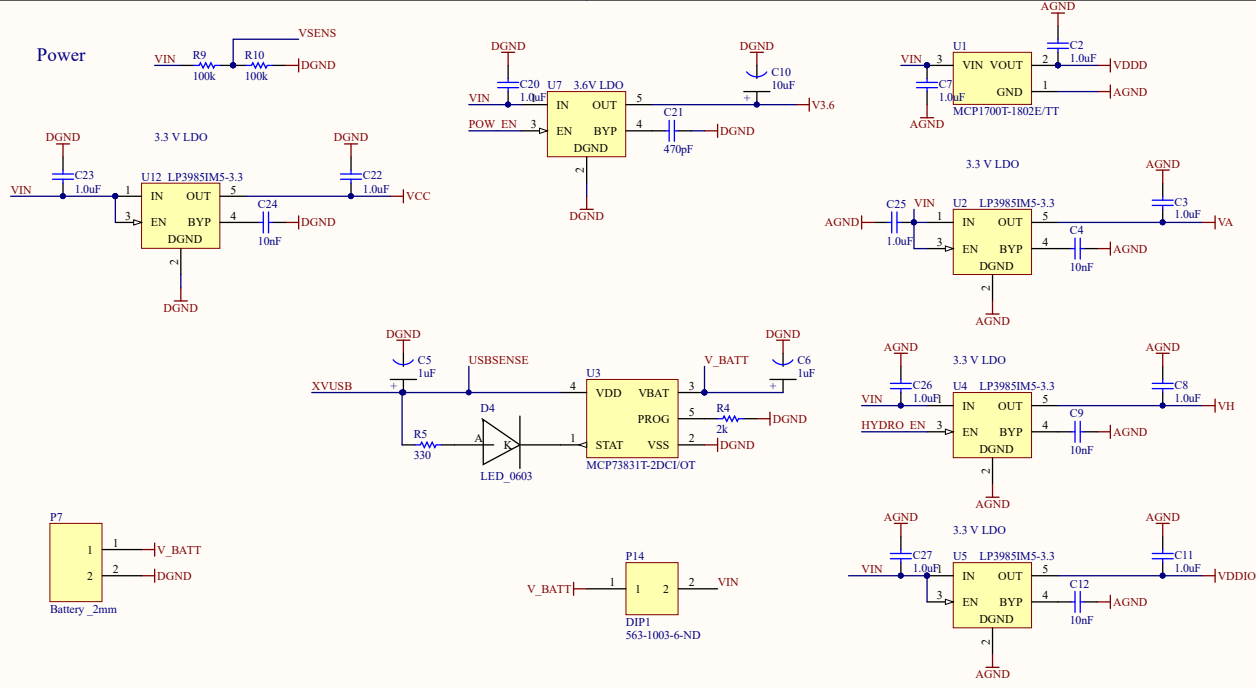
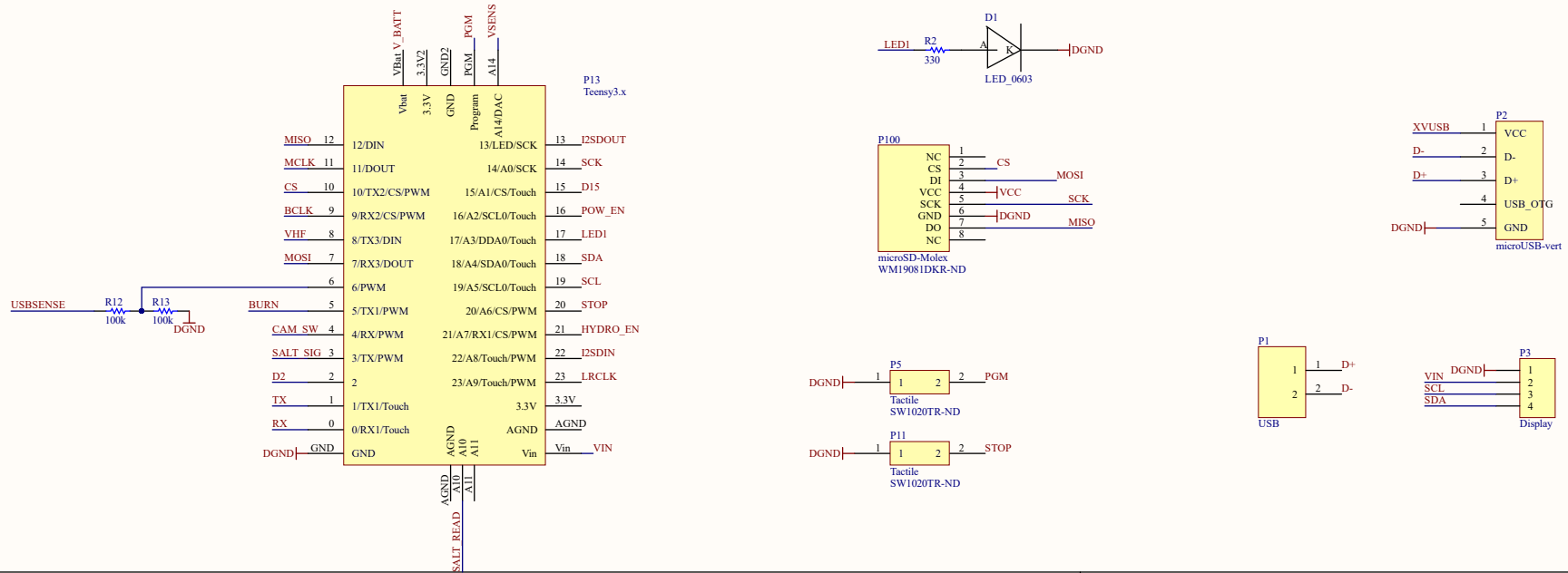
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# Sensors

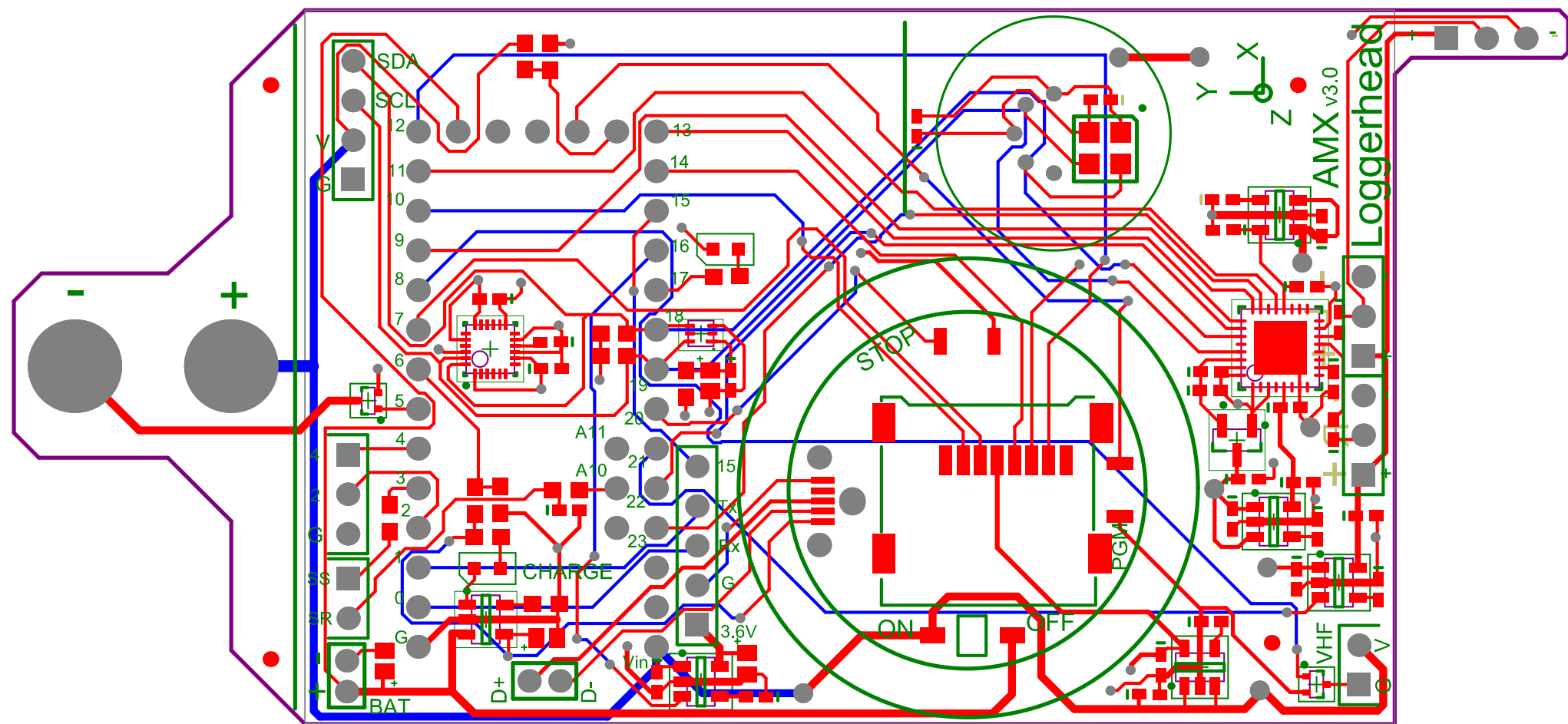


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A	Loggerhead Instruments	3.0	
Date:	3/8/2019	Sheet 2 of 3	
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Notes:  
On Teensy need to cut pad joining VIN and USB



Title AMX			
Size A3	Number Loggerhead Instruments	Revision 2.1	
Date: 3/8/2019	File: C:/w/ams/Altium/AMX30.SchDoc	Sheet 1 of 3	Drawn By: Text



Comment	Description	Designator	Footprint	LibRef	Quantity
1.0uF	Ceramic Chip Capacitor - Standard	C1, C2, C3, C7, C8, C11, C14, C15, C20, C22, C23, C25, C26, C27	0402	C0402	14
10nF	Ceramic Chip Capacitor - Standard	C4, C9, C12, C24, C30	0402	C0402	5
1uF		C5, C6, C32	Tant0805	Tant0805	3
10uF		C10	Tant0805	Tant0805	1
0.1uF	Ceramic Chip Capacitor - Standard	C13, C16, C17, C18, C19, C29, C31, C33, C34	0402	C0402	9
470pF	Ceramic Chip Capacitor - Standard	C21	0402	C0402	1
LED_0603		D1, D4	Diode0603	LED_0603	2
USB	Charging Connector	P1	HDR_2x1_2mm	HDR_2x1_2mm	1
microUSB-vert	Molex 105133-0011	P2	MICROUSB-VERT	microUSB-vert	1
Display	Header, 4-Pin	P3	HDR1X4	Header 4	1
Burn		P4	BURN	Burn Screw	1
Tactile		P5, P11	Tactile-B3U-1000	Tactile_B3U-1000	2
VHF Power	Header, 2-Pin	P6	HDR1X2	Header 2	1
Battery_2mm	Charging Connector	P7	HDR_2x1_2mm	HDR_2x1_2mm	1
Salt Switch	Header, 2-Pin	P8	HDR1X2	Header 2	1
HYDROPHONE	Header, 3-Pin	P9, P10, P16	HDR1X3	Header 3	3
Header 3	Header, 3-Pin	P12	HDR1X3	Header 3	1
Teensy3.x		P13	Teensy3.x	Teensy3.x	1
DIP1		P14	DIP1	DIP1	1
Header 5	Header, 5-Pin	P15	HDR1X5	Header 5	1
microSD-Molex		P100	microSD_Molex_hinged	microSD_Molex_hinged	1
DMN5L06TK-7	Ultra-low leakage Enhanced MOSFET	Q1, Q2	SOT-523	FET DMN5L06TK-7	2
100x	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R1	3-0603	ERJ3RK	1
330	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R2, R5	3-0603	ERJ3RK	2
2k	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R4	3-0603	ERJ3RK	1
4.7k	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R6, R7	3-0603	ERJ3RK	2
100k	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R9, R10, R12, R13	3-0603	ERJ3RK	4
10k	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R18	3-0603	ERJ3RK	1
1k	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R19	3-0603	ERJ3RK	1
MCP1700T-1802E/TT	Low Quiescent Current LDO, 3-Pin SOT-23, Extended Temperature, Tape and Reel	U1	SOT-23-TT3_N	MCP1700T-1802E/TT	1
LP3985IMS-3.3	Micropower, 150mA Low-Noise Ultra Low-Dropout CMOS Voltage Regulator	U2, U4, U5, U12	MF05A_N	LP3985IMS-3.3	4
MCP73831T-2DCI/OT	Miniature Single-Cell, Fully Integrated Li-Ion, Li-Polymer Charge Management Controller, 4.2V, 5-Pin SOT-23, Industrial Temperature, Tape and Reel	U3	SOT-23-OT5_N	MCP73831T-2DCI/OT	1
SGTL5000		U6	QFN32	SGTL5000	1
3.6V LDO	Micropower, 150mA Low-Noise Ultra Low-Dropout CMOS Voltage Regulator	U7	MF05A_N	LP3985IMS-3.3	1
MPU9250	Invensense	U8	MPU6500	MPU-9250	1
Keller7LD	Keller Pressure/Temp	U9	Keller7LD	Keller 7LD	1
MS5837	Pressure/Temp	U10	MS5837	MS5837	1
RGB light	RGB light sensor	U11	ODFN	ISL29125	1