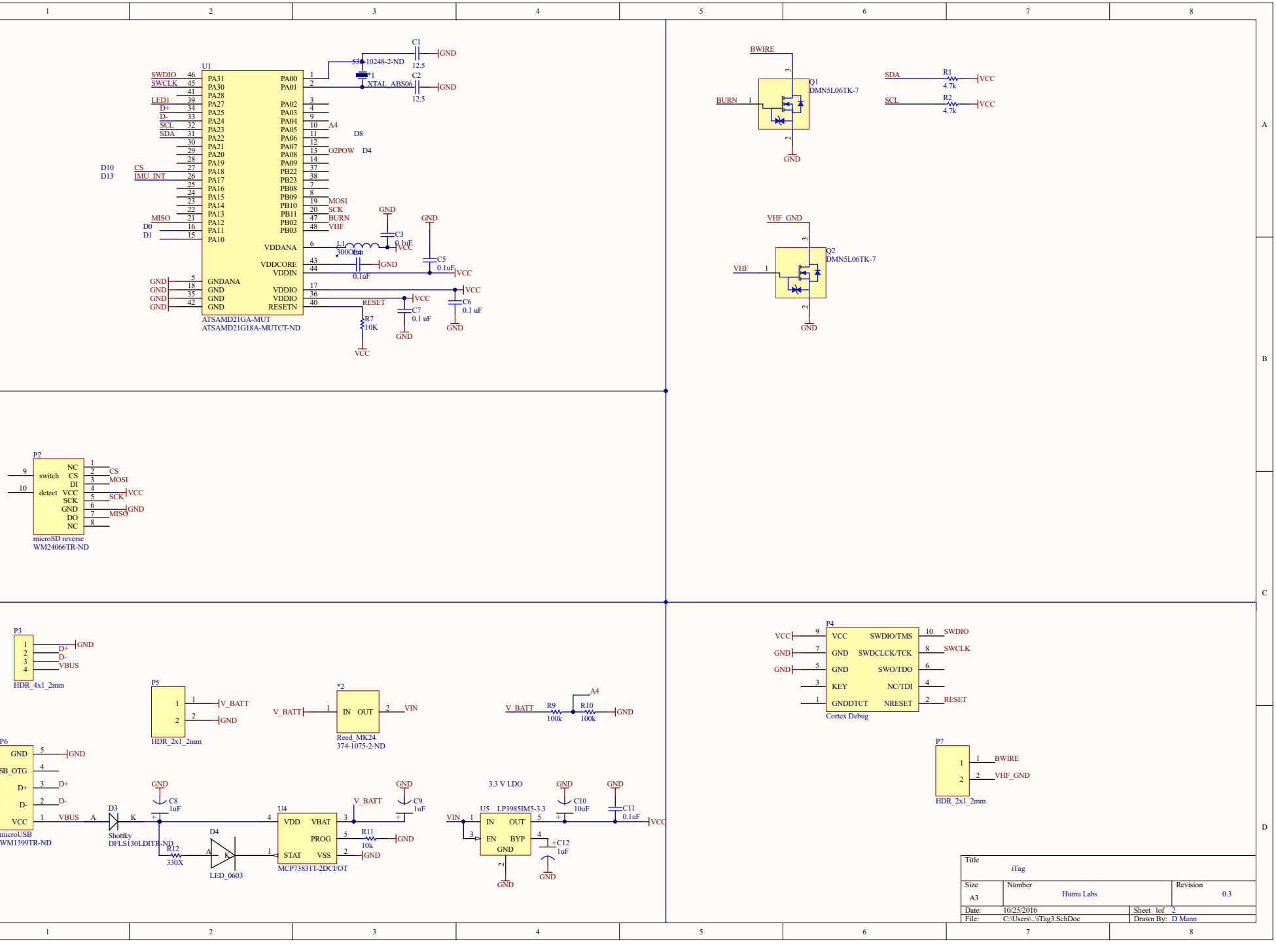
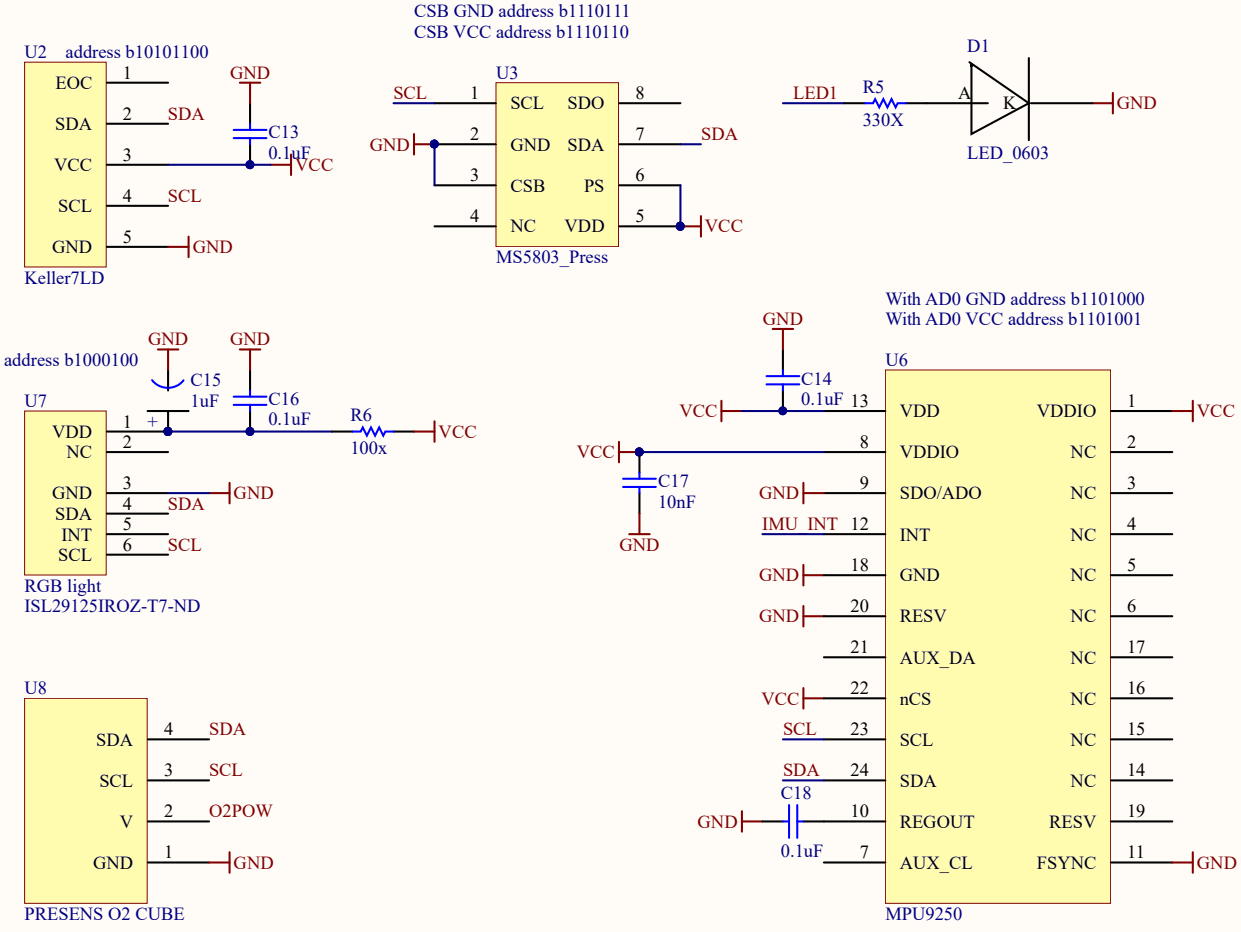
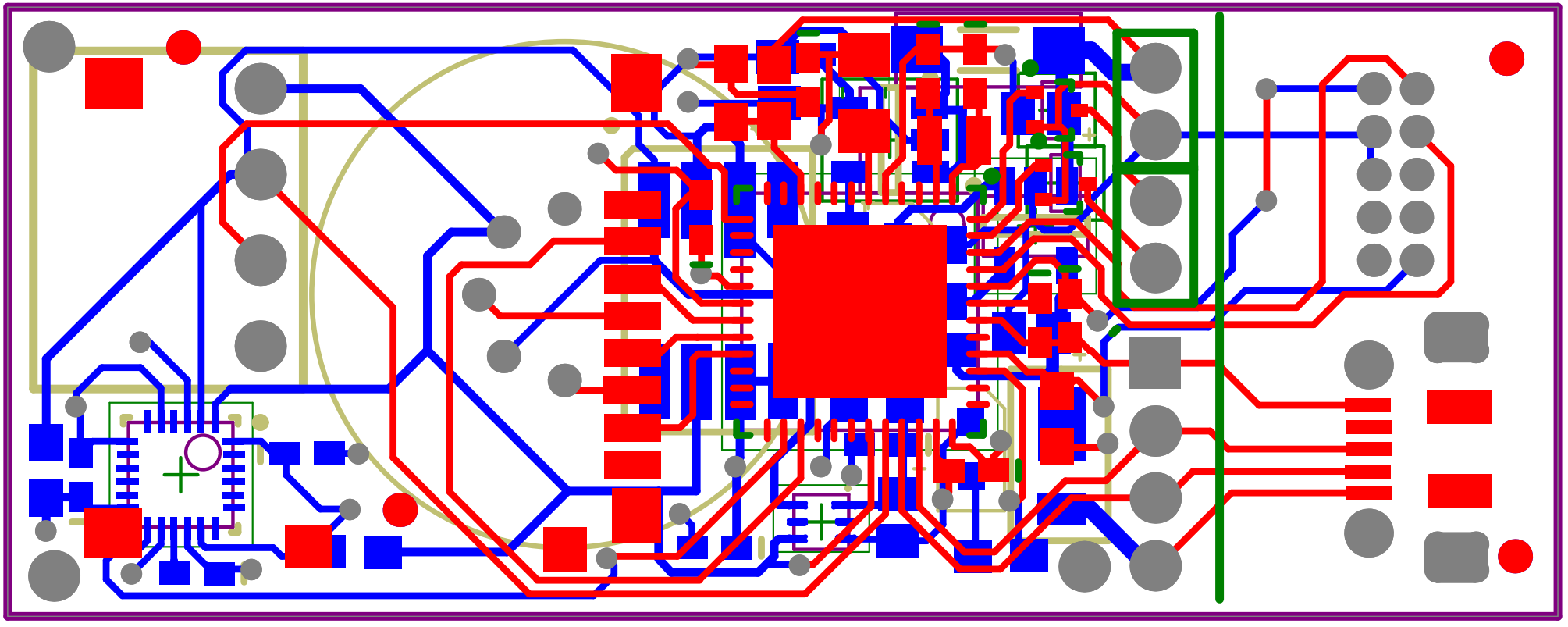

U1
ATSAMD21GA-MUT
ATSAMD21G18A-MUTCT-ND
C1
12.5
C2
12.5
XTAL_ABS06
C3
0.1uF
C5
0.1uF
C6
0.1 uF
C7
0.1 uF
R7
10K
L1
300Ohm
0.1uF
BWIRE
Q1
DMN5L06TK-7
BURN
SDA
SCL
R1
4.7k
R2
4.7k
VCC
GND
VHF_GND
Q2
DMN5L06TK-7
VHF
P2
microSD reverse
WM24066TR-ND
P3
HDR_4x1_2mm
P5
HDR_2x1_2mm
*2
Reed_MK24
374-1075-2-ND
R9
100k
R10
100k
A4
P6
microUSB
WM1399TR-ND
D3
Shottky
DFLS130LDITR-ND
D4
LED_0603
R12
330X
U4
MCP73831T-2DCI/OT
R11
10k
C8
1uF
C9
1uF
3.3 V LDO
U5 LP3985IM5-3.3
C10
10uF
C11
0.1uF
C12
1uF
P4
Cortex Debug
P7
HDR_2x1_2mm
Title
iTag
Size
A3
Number
Humu Labs
Revision
0.3
Date:
10/25/2016
Sheet 1of 2
File:
C:\Users\..\iTag3.SchDoc
Drawn By:
D Mann



Title: iTag		
Size: A	Number: Humu Labs	Revision: 0.3
Date: 10/25/2016		Sheet 2of 2
File: C:\Users\..\iTag3Sensors2.SchDoc		Drawn By: D Mann



Comment	Description	Designator	Footprint	LibRef	Quantity
XTAL_ABS06		*1	XTAL-ABS06	XTAL_ABS06	1
Reed_MK24		*2	Reed MK24-B-3	Reed_MK24	1
12.5	Ceramic Chip Capacitor - Standard	C1, C2	0402	C0402	2
0.1uF	Ceramic Chip Capacitor - Standard	C3, C4, C5, C11, C13, C14, C16, C18	0402	C0402	8
0.1 uF	Ceramic Chip Capacitor - Standard	C6, C7	0402	C0402	2
1uF		C8, C9, C12, C15	Tant0805	Tant0805	4
10uF		C10	Tant0805	Tant0805	1
10nF	Ceramic Chip Capacitor - Standard	C17	0402	C0402	1
LED_0603		D1, D4	Diode0603	LED_0603	2
Shottky		D3	DFLS130	DFLS130	1
300Ohm	Ferrite 25mOhm@DC, 60 Ohm@100MHz	L1	0805 (M2125) Ferrite	Ferrite 0805(M2125) 3A	1
microSD reverse		P2	miroSD_reverse	microSD reverse	1
HDR_4x1_2mm		P3	Hdr_4x1_2mm	HDR_4x1_2mm	1
Cortex Debug		P4	Header_2x5_50mil	CortexDebug	1
HDR_2x1_2mm		P5, P7	HDR_2x1_2mm	HDR_2x1_2mm	2
microUSB		P6	microUSB-B	microUSB-B	1
DMN5L06TK-7	Ultra-low leakage Enhanced MOSFET	Q1, Q2	SOT-523	FET DMN5L06TK-7	2
4.7k	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R1, R2	3-0603	ERJ3RK	2
330X	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R5, R12	3-0603	ERJ3RK	2
100x	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R6	3-0603	ERJ3RK	1
10K	Precision Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 1% and 0.5% Tolerance, 0603 Size, 0.063 W	R7, R11	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	3-0603	ERJ3RK	2
ATSAMD21GA-MUT		U1	QFN127P600-8N	ATSAMD21G18	1
Keller7LD	Keller Pressure/Temp	U2	Keller7LD	Keller 7LD	1
MS5803_Press		U3	MS5803_Press	MS5803_Press	1
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	U4	SOT-23-OT5_N	MCP73831T-2DCI/OT	1
LP3985IM5-3.3	Micropower, 150mA Low-Noise Ultra Low-Dropout CMOS Voltage Regulator, 5-pin SOT-23	U5	MF05A_N	LP3985IM5-3.3	1
MPU9250	Invensense	U6	MPU6500	MPU-9250	1
RGB light	RGB light sensor	U7	ODFN	ISL29125	1
PRESENS O2 CUBE		U8	PRESENS_O2	PRESENS_O2	1