

1

2

3

4

A

A

B

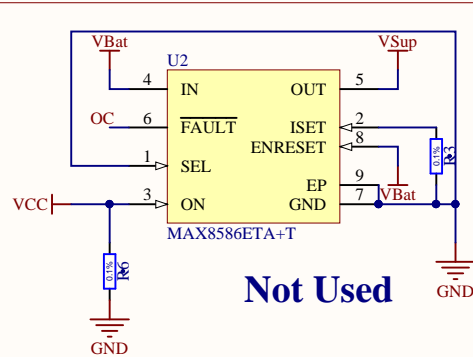
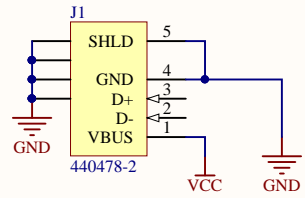
B

C

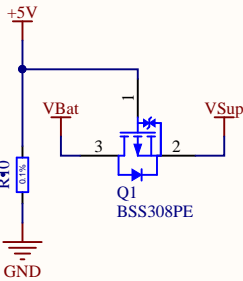
C

D

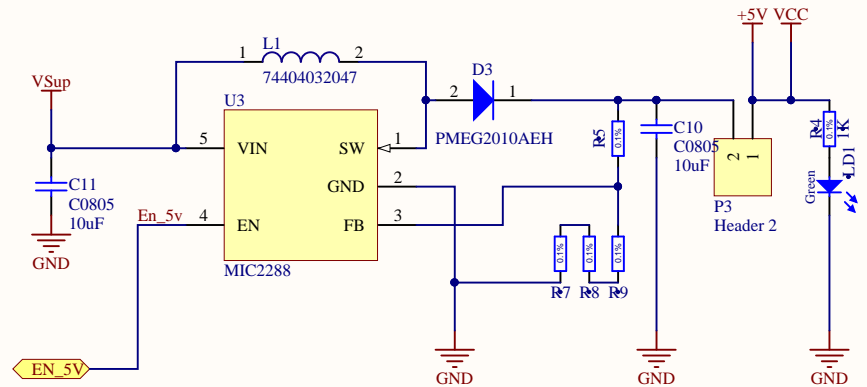
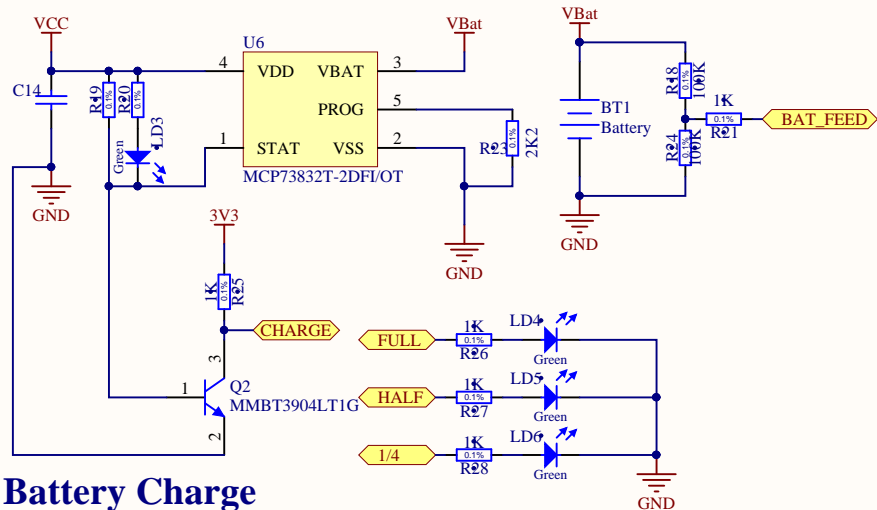
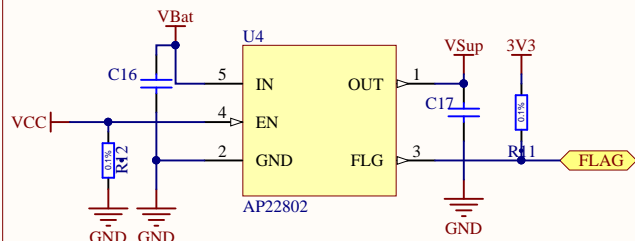
D



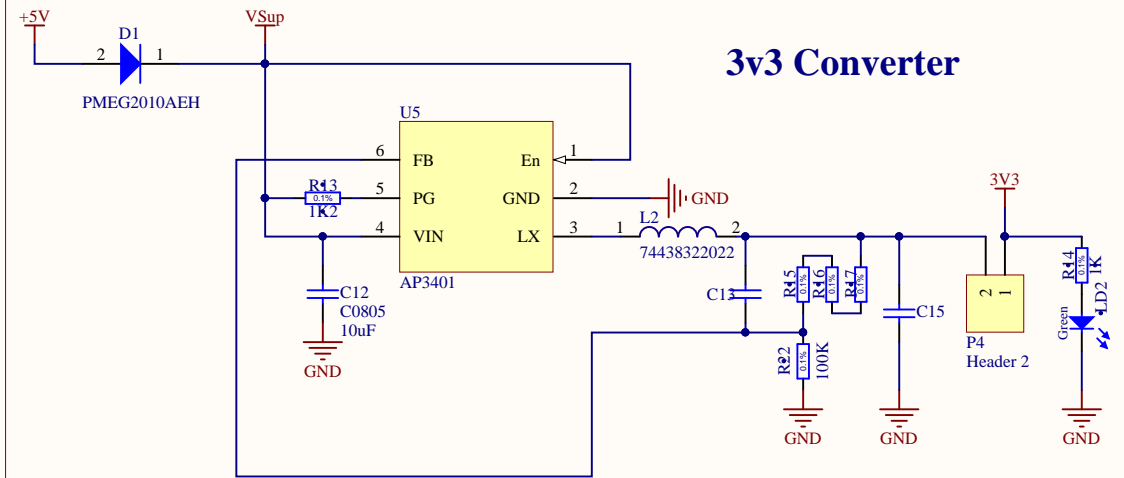
### Mosfet Switch



### Power Switch



### 5v Converter



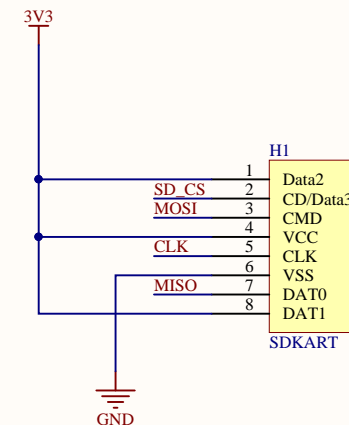
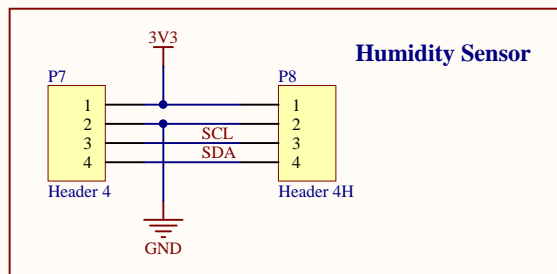
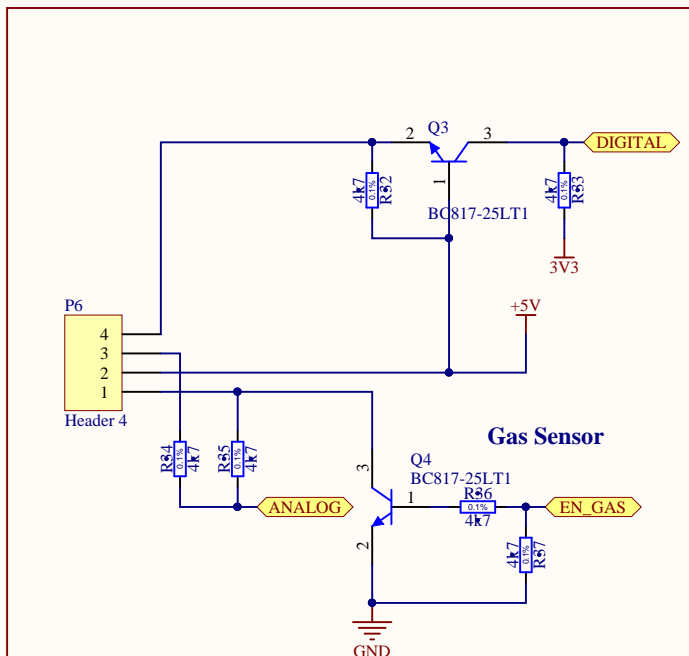
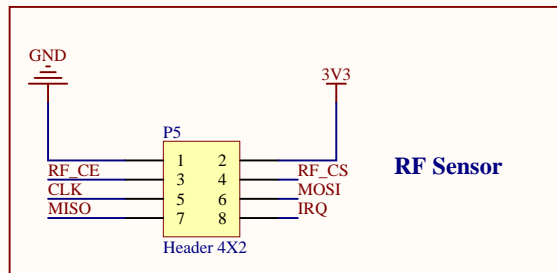
### 3v3 Converter

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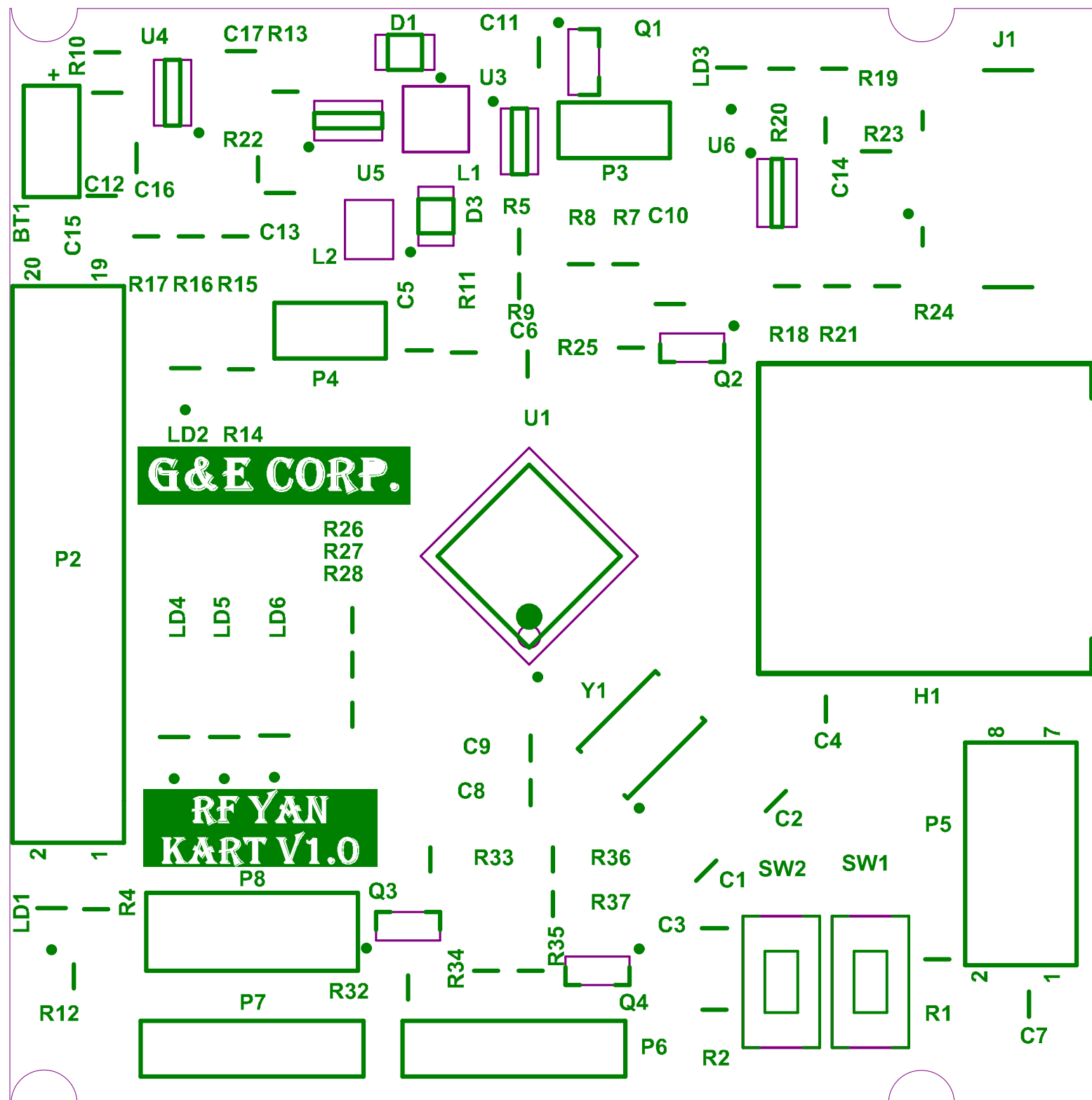
SDA SDA  
SCL SCL

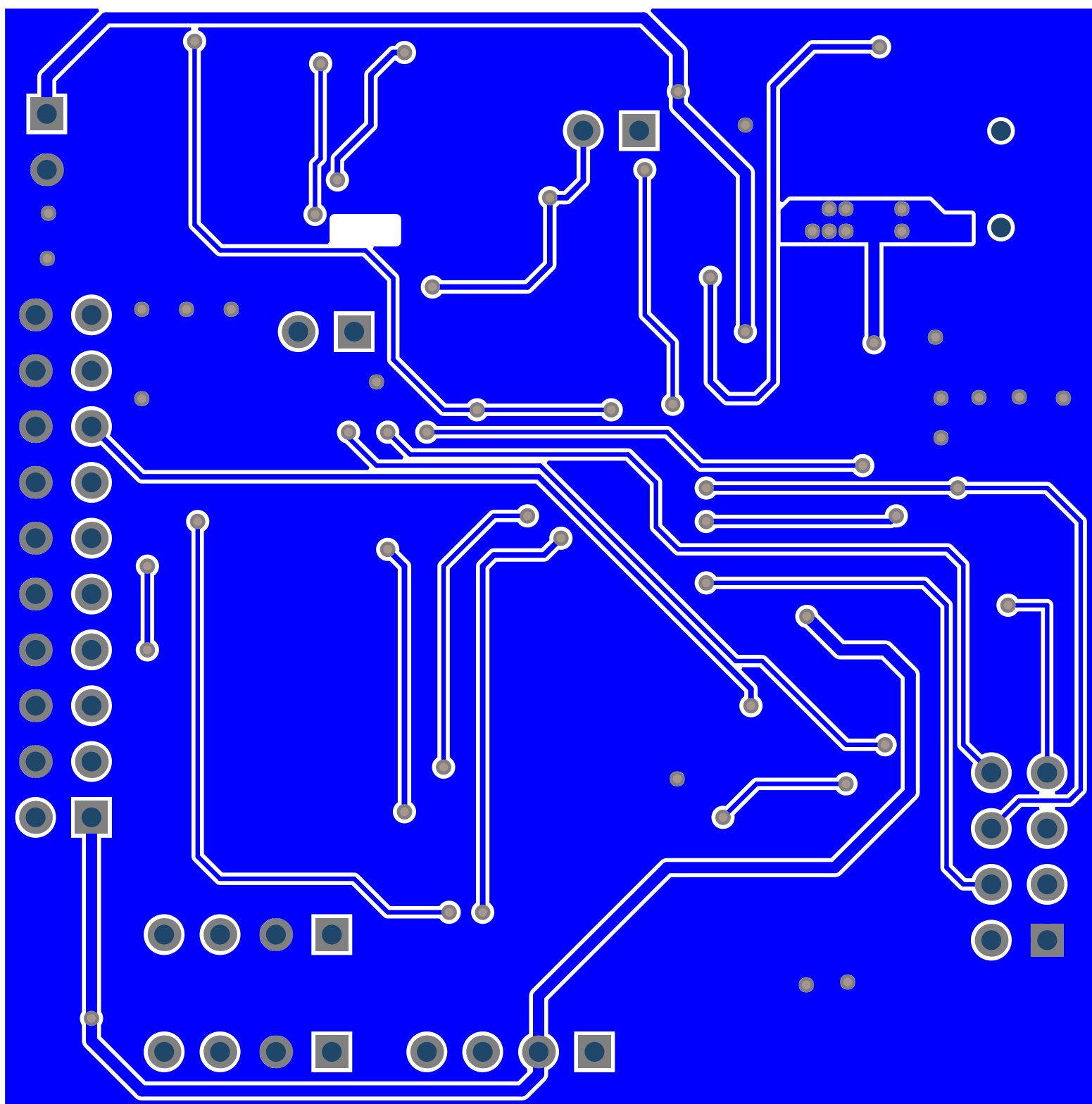
SD\_CS SD\_CS  
CLK CLK  
MISO MISO  
MOSI MOSI

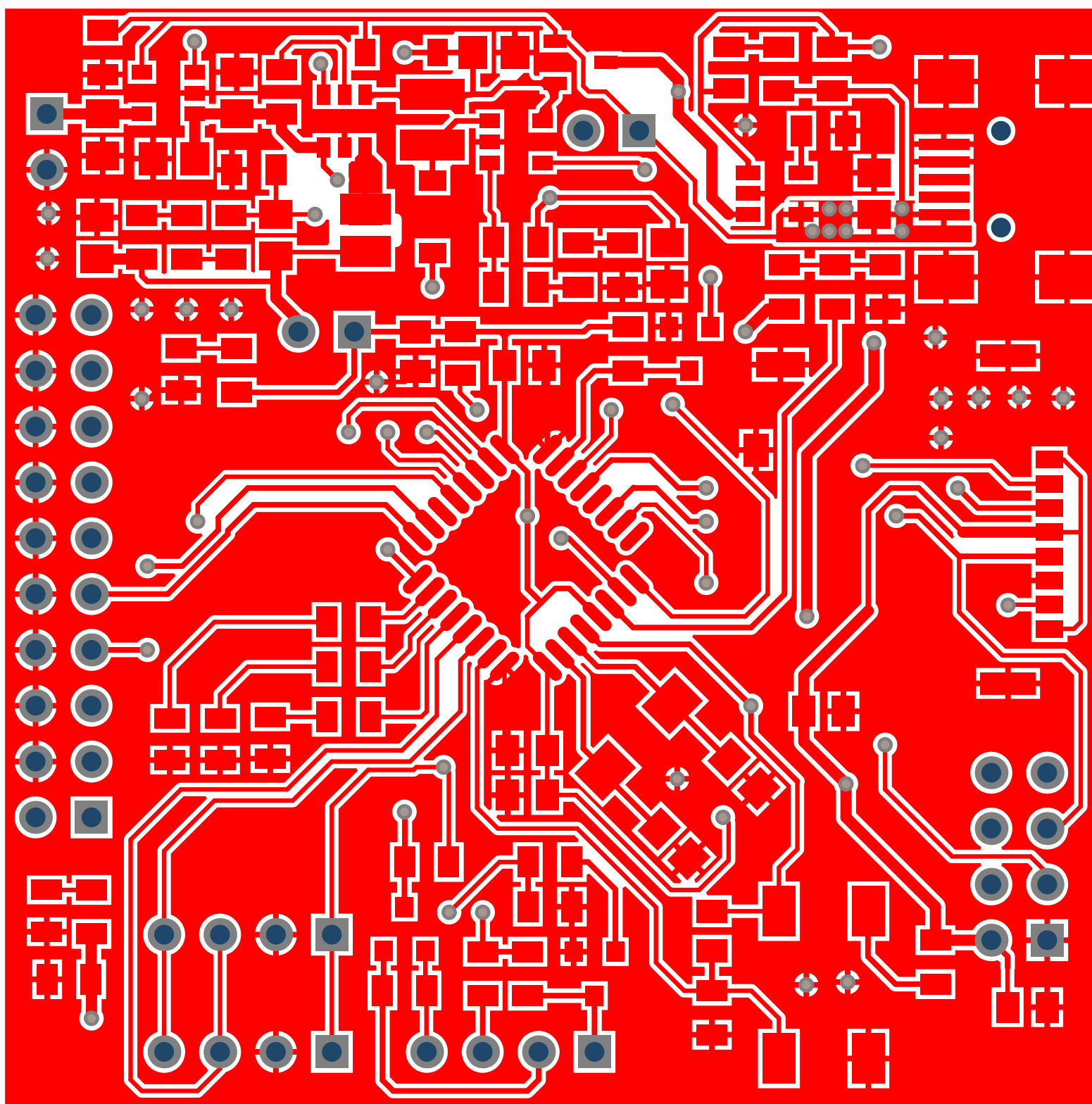
RF\_CS RF\_CS  
RF\_CE RF\_CE  
IRQ IRQ



Title		
Size	Number	Revision
A4		
Date:	16.09.2017	Sheet of
File:	C:\Users\...\Sensors.SchDoc	Drawn By:







Comment	Description	Designator	Footprint	LibRef	Quantity	Value
Battery	Multicell Battery	BT1	BAT-2	Battery	1	
C0805	Ceramic Chip Capacitor - Standard	C1, C2, C10, C11, C12, C13, C14, C15, C16, C17	0805	C0805	10	18pF, 18pF, 10uF, 10uF, 10uF, 22pF, 10uF, 10uF, 10uF, 10uF
22pF	Non-polarised capacitor	C3	CAPC2012X135N	CC0805_10NF_50V_10%_X7R	1	22pF
100nF	Non-polarised capacitor	C4, C5, C6, C7, C8, C9	CAPC2012X135N	CC0805_1NF_50V_5%_X7R	6	100nF
PMEG2010AEH	Switching Diode, 2-Pin SOD-123, Pb-Free, Tape and Reel	D1, D3	ONSC-SOD-123-2-425-04_V	MMSD914T3G	2	
SDKART		H1	PCBComponent_1	SDKART	1	
440478-2	USB 2.0, Right Angle, SMT, A Type, Receptacle, 5 Position, Black	J1	440478	440478-2	1	
74404032047	WE-LQS SMD Power Inductor, L= 4.7 µH	L1	WE-LQS 3015	74404032047	1	
74438322022	Power Multilayer Inductor WE-MAPI, L=2.2µH	L2	SMD 2508	74438322022	1	
Green	LED Green 1C 2A	LD1, LD2, LD3, LD4, LD5, LD6	LED_OSRAM_LGR971	LED_OSRAM_LGR971	6	
Header 10X2	Header, 10-Pin, Dual row	P2	HDR2X10	Header 10X2	1	
Header 2	Header, 2-Pin	P3, P4	HDR1X2	Header 2	2	
Header 4X2	Header, 4-Pin, Dual row	P5	HDR2X4	Header 4X2	1	
Header 4	Header, 4-Pin	P6, P7	HDR1X4	Header 4	2	
Header 4H	Header, 4-Pin, Right Angle	P8	HDR1X4H	Header 4H	1	
B5S308PE	P-Channel OptiMOS P3 Small-Signal-Transistor, -30 V VDS, -2 A ID, -55 to 150 degC, PG-SOT23, Reel, Green	Q1	INF-PG-SOT23_N	B5S308PE	1	
MMBT3904LT1G	General Purpose Transistor, NPN Silicon, 3-Pin SOT-23, Pb-Free, Tape and Reel	Q2	ONSC-SOT-23-3-318-08_V	MMBT3904LT1G	1	
BC817-25LT1	General Purpose Transistor, NPN Silicon, 3-Pin SOT-23, Tape and Reel	Q3, Q4	ONSC-SOT-23-3-318-08_V	BC817-25LT1	2	
1K	Resistor - 0.1%	R1, R2, R4, R8, R14, R19, R20, R21, R25, R26, R27, R28	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	12	1K
26k	Resistor - 0.1%	R3	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	1	26k
100K	Resistor - 0.1%	R5, R18, R22, R24	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	4	100K
1K2	Resistor - 0.1%	R6, R10, R12, R13	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	4	1K2
10K	Resistor - 0.1%	R7, R11	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	2	10K
100R	Resistor - 0.1%	R9	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	1	100R
RC0805FR-07430KL	Resistor - 0.1%	R15	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	1	150K
150K	Resistor - 0.1%	R16, R17	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	2	150K
2K2	Resistor - 0.1%	R23	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	1	2K2
4k7	Resistor - 0.1%	R32, R33, R34, R35, R36, R37	RESC2012X60N	R0805_1K1_0.1%_0.1W_10PPM	6	4k7
434111043826	WS-TASV SMD Tact. Switch 6.0X3.5 mm	SW1, SW2	434111043826	434111043826	2	
STM32F030K6T6	ARM Cortex-M0 32-bit MCU, 32 KB Flash, 4 KB Internal RAM, 26 I/Os, 32-pin LQFP, -40 to 85 degC, Tray	U1	STM-LOFP32_N	STM32F030K6T6	1	
MAX586ETA+T	Single 1.2A USB Switch, 8-Pin TDFN, -40°C to +85°C, Pb-Free, Tape and Reel	U2	TB33+2	MAX586ETA+T	1	
MIC2288		U3	TSOT25	MIC2288	1	
AP22802		U4	TSOT25	AP22802	1	
AP3401		U5	TSOT26	AP3401	1	
MCP73832T-2DFI/OT	Miniature Single-Cell, Fully Integrated Li-Ion, Li-Polymer Charge Management Controller, 4.2V, 5-Pin SOT-23, Industrial Temperature, Tape and Reel	U6	SOT-23-OT5_N	MCP73832T-2DFI/OT	1	
4SMX	Surface Mount Quartz Crystal	Y1	4SMX	4SMX	1	