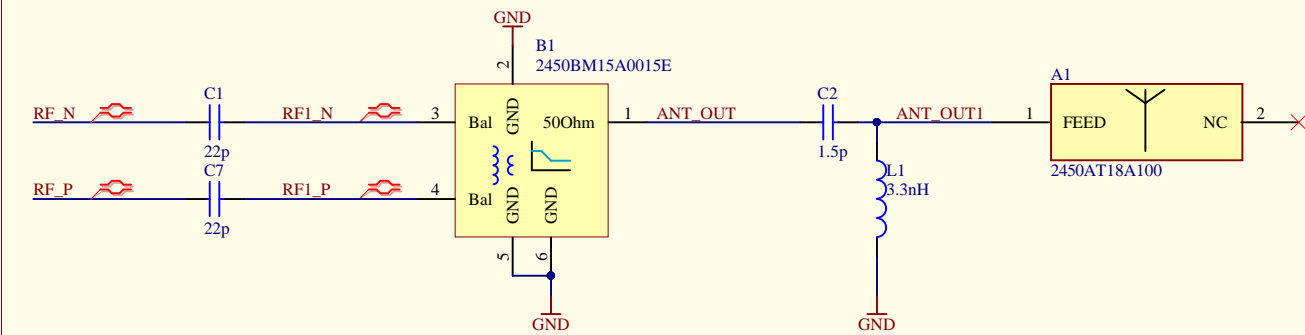
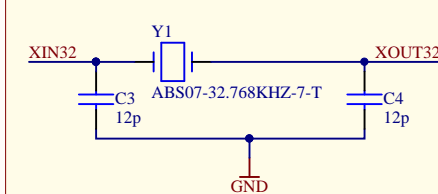


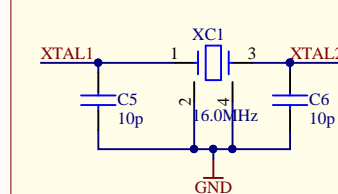
### Balun and Ceramic Antenna



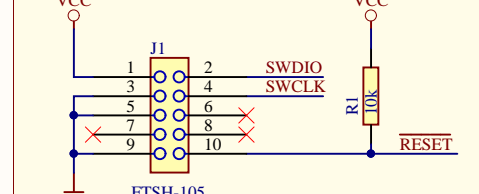
### RTC Oscillator



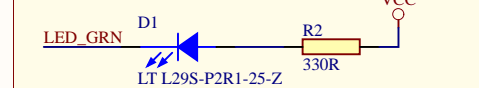
### RF Oscillator



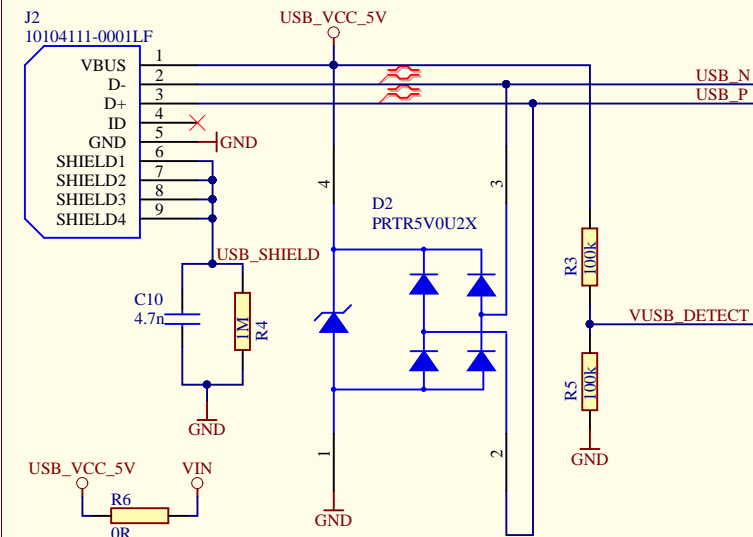
### SWD Debug Header



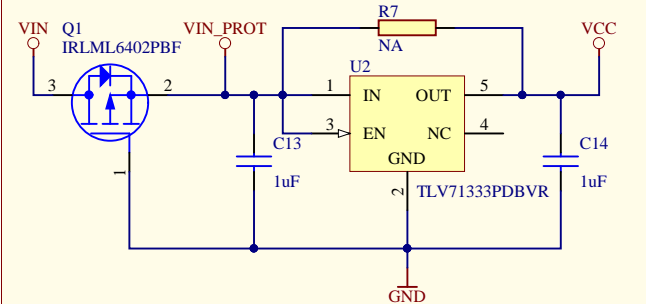
### User LED



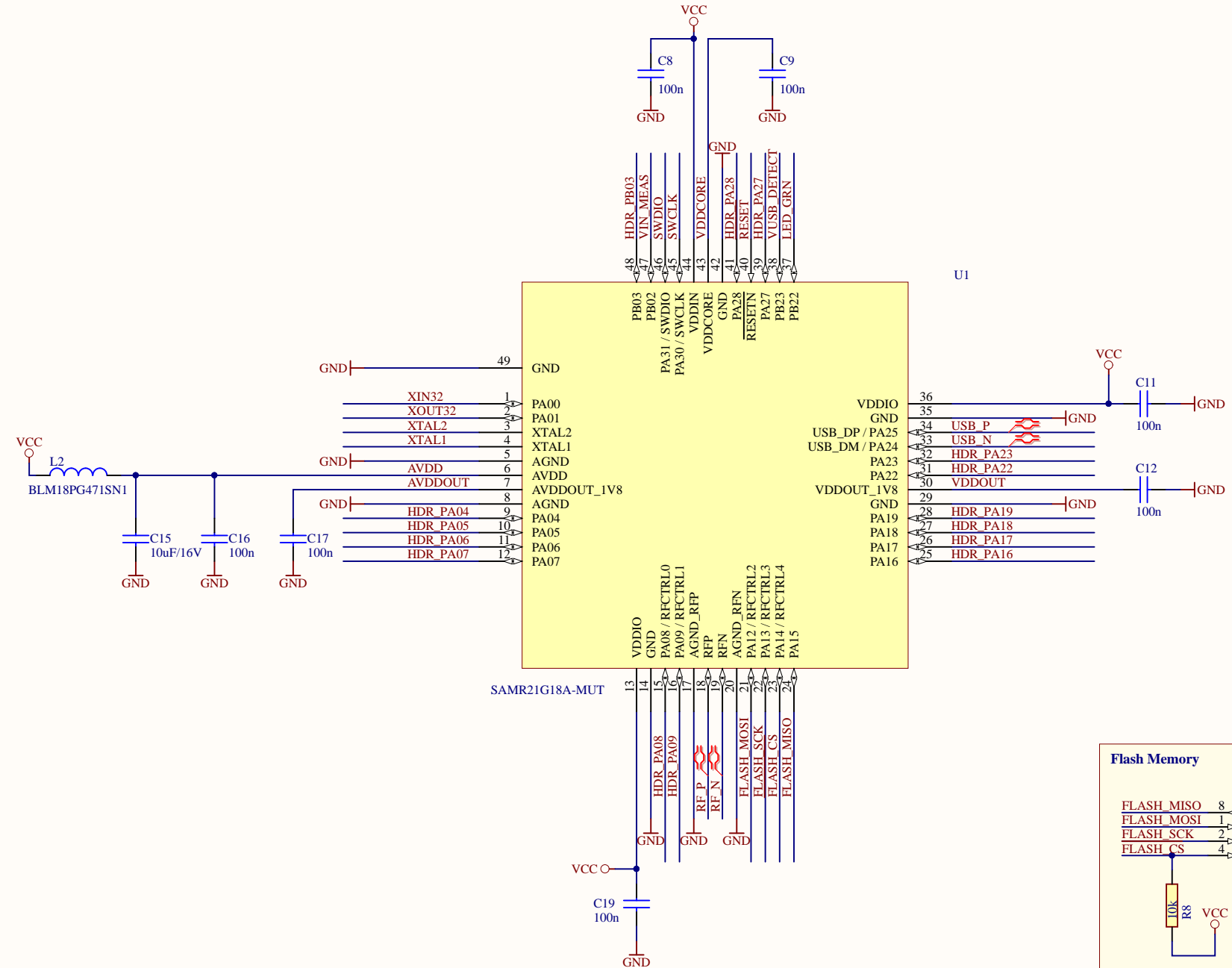
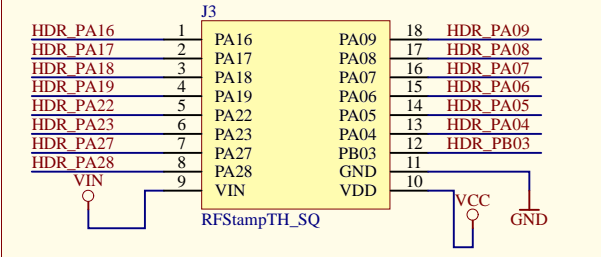
### USB



### Reverse Power Protection and LDO

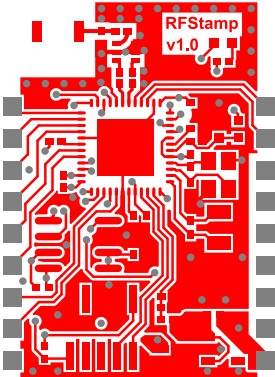


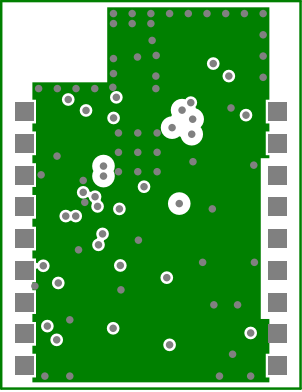
### Extension Header

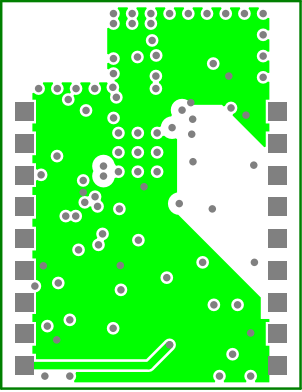


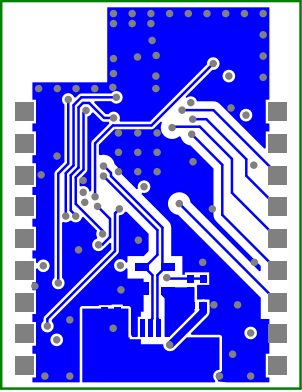
Title			RFStamp	
Size	A3	Number	Revision	
Date:		3/09/2016	Sheet of	1.0
File:		C:\Users\...\RFStamp.SchDoc	Drawn By:	Rait Rääk

RFStamp  
v1.0









A1



L1



C2



B1



C7

U1



C19

C17

C16

C15

D1



R2

L2



J3

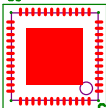
C12



C11



U3



C9



C5

C6

C4

C3

C20

R10

R9

C13

C14

R7

Q1

U2

Y1

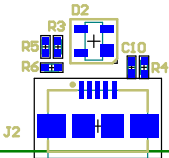
X1

R8



J1





# Bill of Materials

Bill of Materials For Schematic Document [RFStamp.SchDoc]

Source Data From: RFStamp.SchDoc  
Project: RFStamp.PrjPcb  
Variant: None

Creation Date: 3/09/2016 5:05:14 PM  
Print Date: 03-Sep-16 5:05:26 PM

Footprint	Comment	LibRef	Designator	Description	Quantity
2450AT18A100	2450AT18A100	2450AT18A100	A1	Ceramic 2.45 GHz Antenna	1
AP3-00060	2450BM15A0015E	A03-0091	B1	Filtered Balun to match AT86RF232/233 (35288)	1
AP1-00053	22p	A01-0246	C1, C7	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%	2
AP1-00053	1.5p	A01-0246	C2	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%	1
AP1-00053	12p	A01-0246	C3, C4	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%	2
AP1-00053	10p	A01-0246	C5, C6	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%	2
AP1-00053	100n	A01-0246	C8, C9, C11, C12, C16, C17, C18, C19, C20	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%	9
AP1-00053	4.7n	A01-0046	C10	Ceramic capacitor, SMD 0402, X7R, 25V, +/-10%	1
AP1-00039	1uF	A01-0377	C13, C14	Ceramic capacitor, SMD 0603, X5R, 10V, 10% (de31036), Ceramic capacitor, SMD 0603, X5R, 6.3V, 10%	2
AP1-00039	10uF/16V	A01-0491	C15	Ceramic capacitor, SMD 0603, X5R, 16V, 10UF ± 20% (High Density)	1
LS L29K	LT L29S-P2R1-25-Z		D1		1
AP4-00001	PRTR5V0U2X	A06-0236	D2	Double rail-to-rail USB ESD protection diode	1
FTSH_SMT_10	FTSH-105		J1	CONN HEADER 10POS DUAL .05" SMD	1
AP8-00604	10104111-0001LF	A08-1368	J2	Micro USB AB Connector	1
0402-A	3.3nH	Inductor	L1	Inductor	1
AP3-00005	BLM18PG471SN1	A03-0035	L2	SMD RF inductor 0603. Z=470Ohm (@100MHz), Max R(dc)=0.65Ohm, Max current=1A	1
AP5-00002	IRLML6402PBF	A05-0087	Q1	P-ch. MOSFET. -30V, -3.7A continuous, RDS(ON)=0.05Ohm@VGS=-4.5V, RDS(ON)=0.08Ohm@VGS=-2.5V	1
AP2-00011	10k	A02-0252, A02-0284	R1, R8	Thick film resistor, SMD 0402, 1/16W, 5%	2
AP2-00011	330R	A02-0200	R2	Thick film resistor, SMD 0402, 1/16W, 5%	1
AP2-00011	100k	A02-0252	R3, R5, R9, R10	Thick film resistor, SMD 0402, 1/16W, 5%	4
AP2-00011	1M	A02-0284	R4	Thick film resistor, SMD 0402, 1/16W, 5%	1
AP2-00011	0R	A02-0252	R6	Thick film resistor, SMD 0402, 1/16W, 5%	1
AP6-00171	SAMR21G18A-MUT		U1	Atmel 32-bit Cortex M0+ MCU with RF233 SIP.	1
TI-DBV5_N	TLV71333PDBVR	TLV70233DBVR	U2	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2 to 5.5 V Input, with Low IQ, 5-pin SOT-23 (DBV), -40 to 85 degC, Green (RoHS & no Sb/Br)	1
8S1_N	AT45DB041E-SSHN-B	AT45DB041E	U3	4-Mbit DataFlash (with Extra 128-Kbits), 1.65V Minimum SPI Serial Flash Memory, 8-Pin SOIC	1
AP7-00061	TSX-3225		XC1	16MHz uXtal, 3.2 x 2.5 mm SMD, CL=9pF, 15PPM, ESR=80ohm(Max.	1
ABS07	ABS07-32.768KHZ-7-T	ABS07	Y1	Low Profile Surface Mount Crystal	1
					43

Approved	Notes