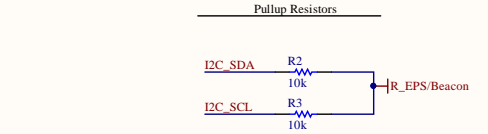
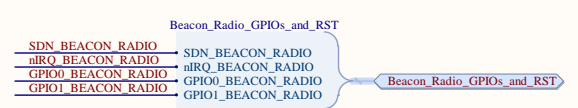
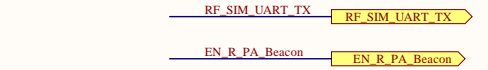
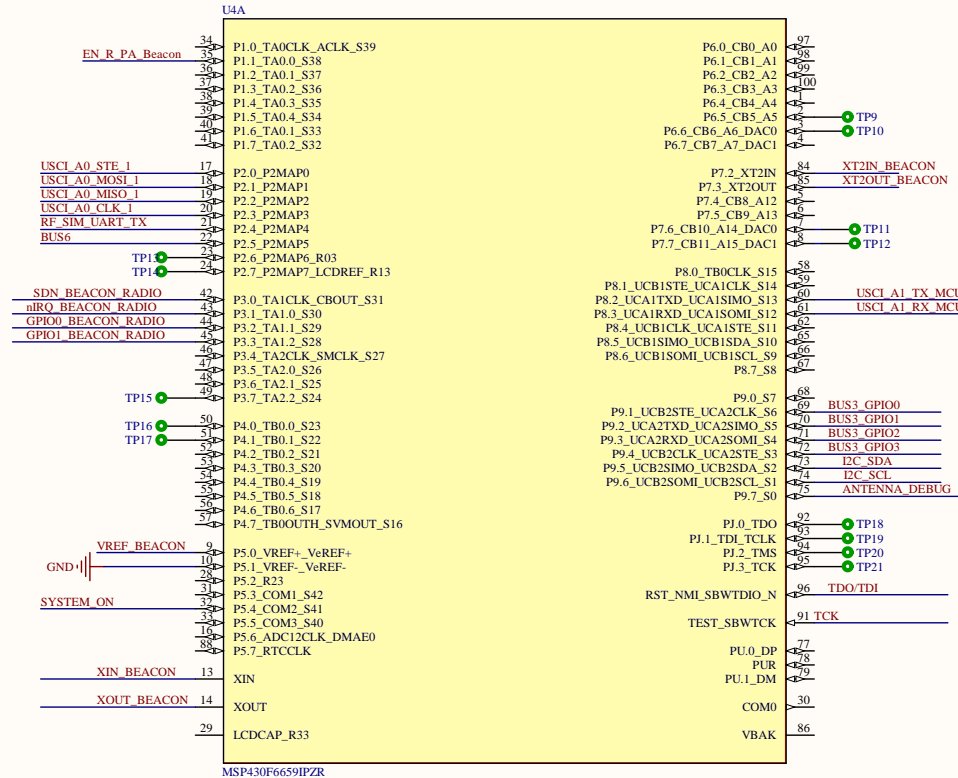
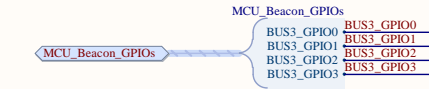
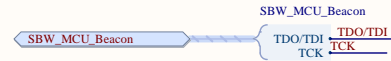


BEACON MCU

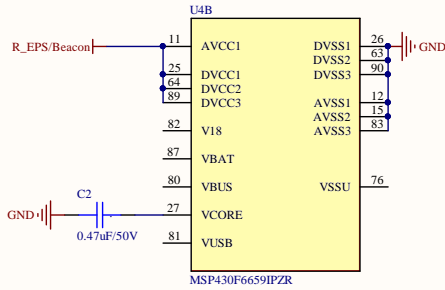
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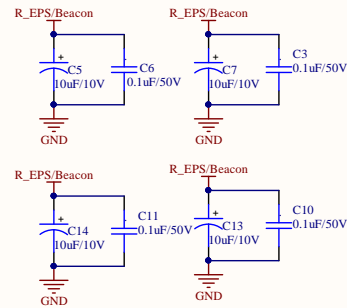
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C

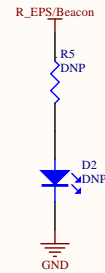
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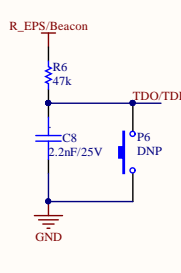
DECOUPLING CAPACITORS



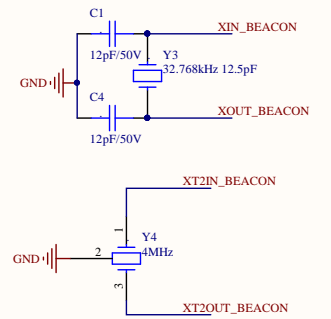
LEDS SYSTEM

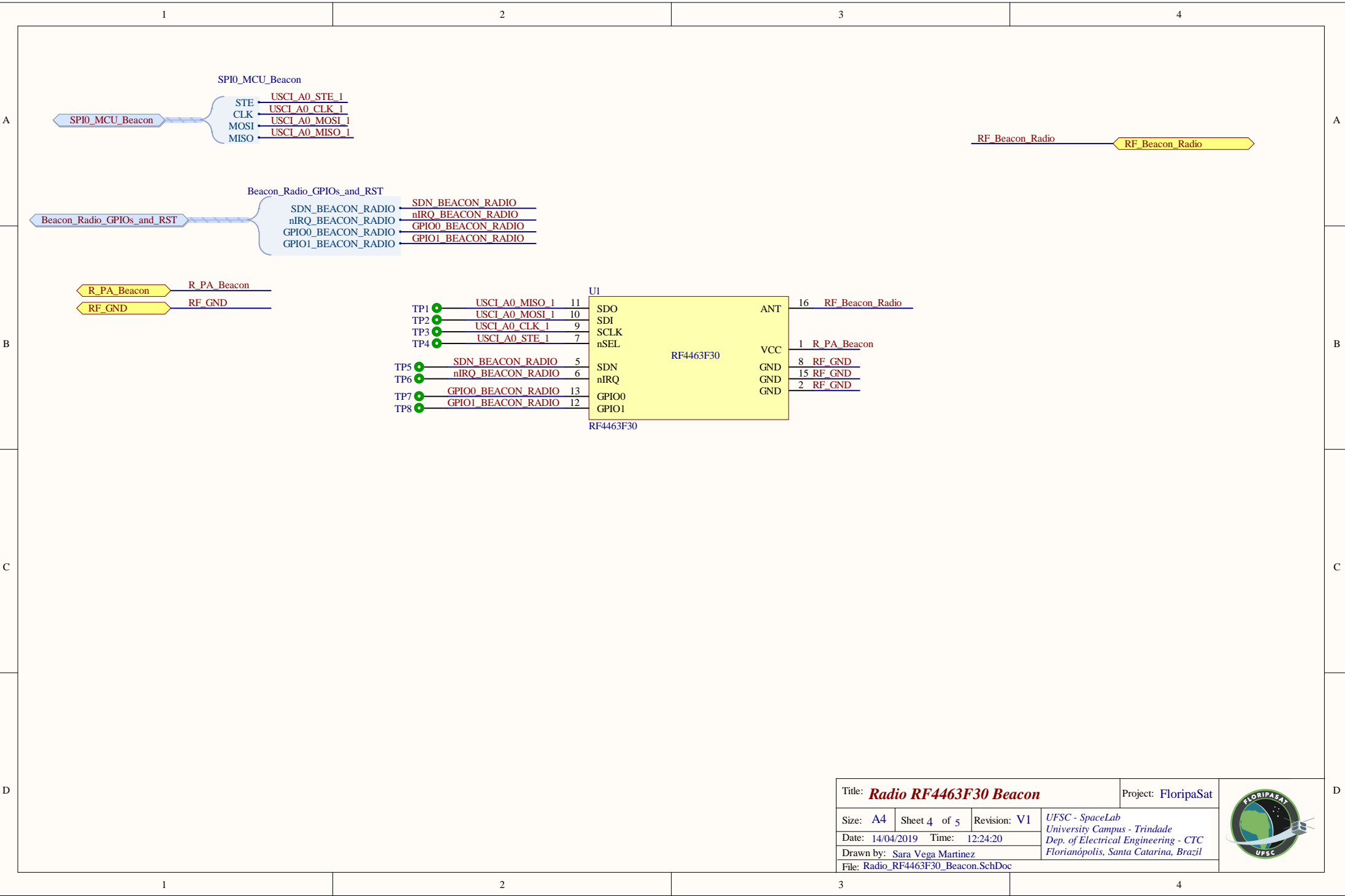


RESET



CRYSTALS





Title: Radio RF4463F30 Beacon			Project: FloripaSat
Size: A4	Sheet 4 of 5	Revision: V1	<i>UFSC - SpaceLab University Campus - Trindade Dep. of Electrical Engineering - CTC Florianópolis, Santa Catarina, Brazil</i>
Date: 14/04/2019 Time: 12:24:20			
Drawn by: Sara Vega Martinez			
File: Radio_RF4463F30_Beacon.SchDoc			



1

2

3

4

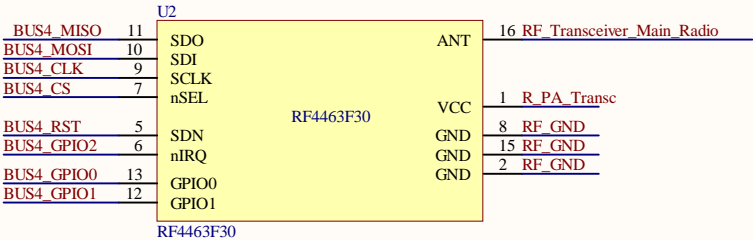
SPI_Main_Radio



Main_Radio_GPIOs_and_RST



Note:
Bus4_Rst is BUS4_SDN
(Power down control)



Title: **Radio RF4463F30 Transceiver**

Project: FloripaSat

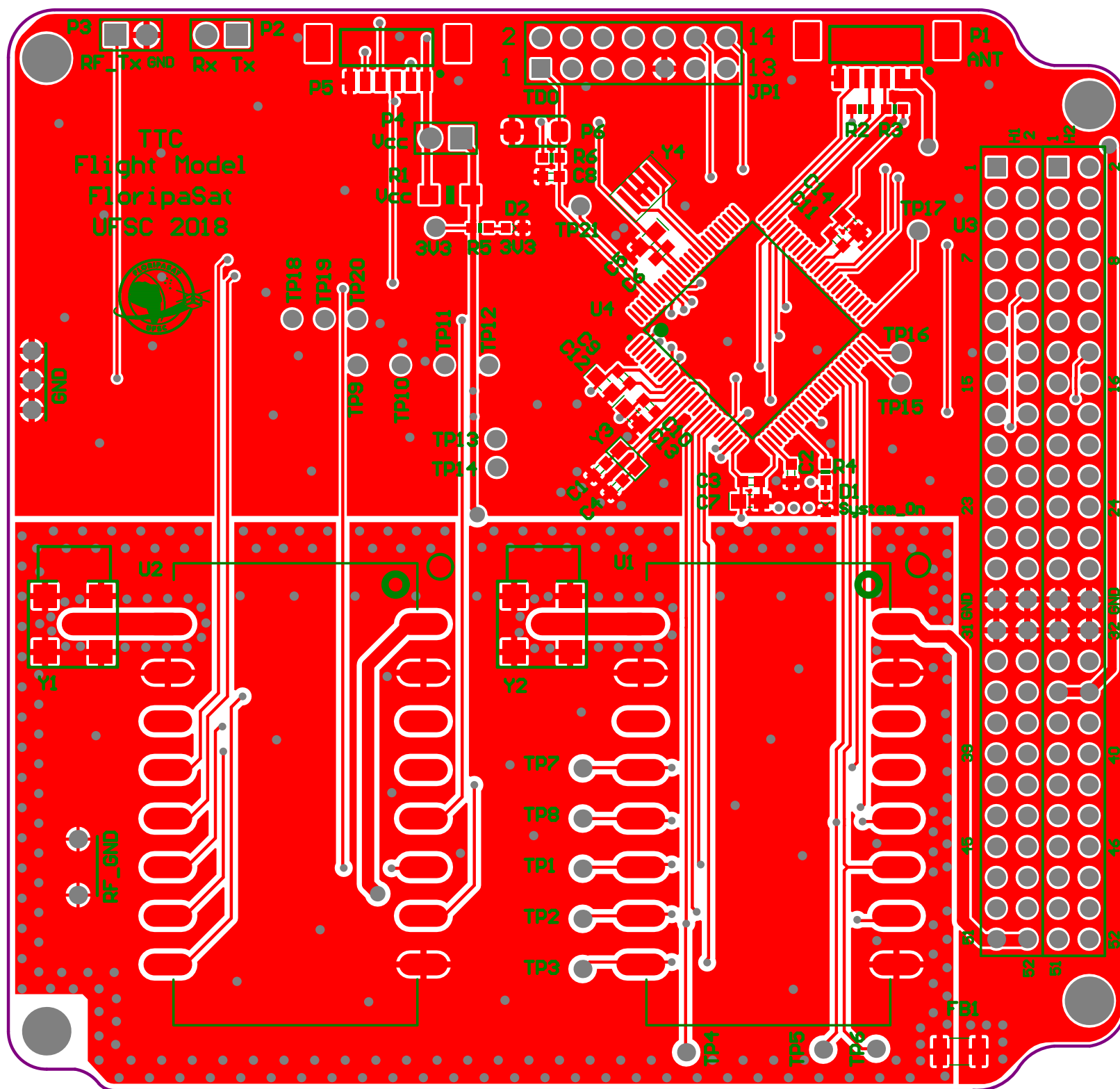
Size: A4 Sheet 5 of 5 Revision: V1

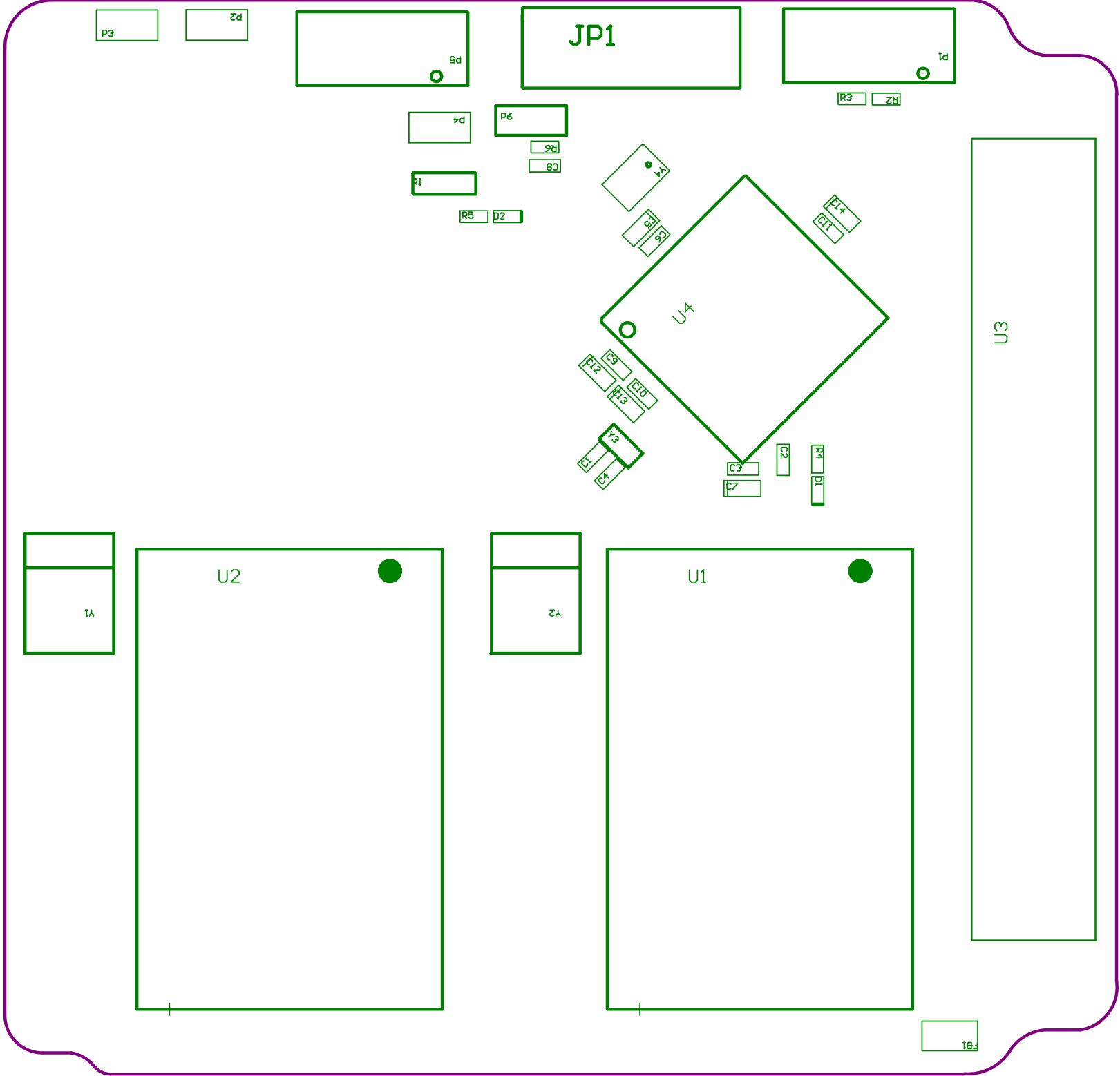
UFSC - SpaceLab
University Campus - Trindade
Dep. of Electrical Engineering - CTC
Florianópolis, Santa Catarina, Brazil

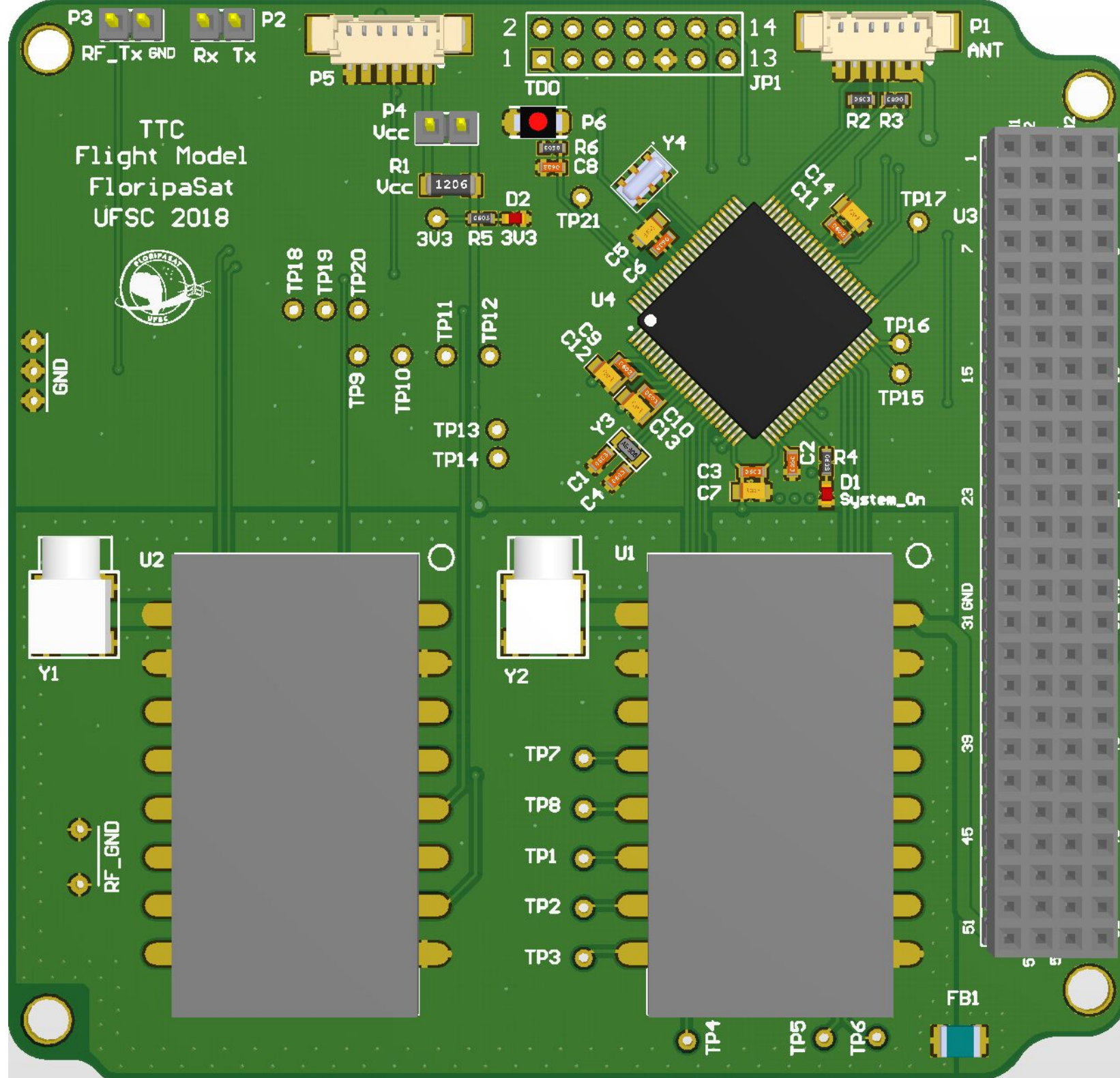
Drawn by: Sara Vega Martinez

File: Radio_RF4463F30_Transceiver.SchDoc









Bill of Materials

TT&C Interface

Source Data From: PCB_Project_TTC_Alt_RF4463F30.PrjPcb
 Project: PCB_Project_TTC_Alt_RF4463F30.PrjPcb
 Variant: None

Creation Date: 14/04/2019 12:24:39
 Print Date: 14-Apr-19 12:24:49 PM

Footprint	Comment	Partnumber	Designator	Description	Quantity
CC0603	12pF/50V	GQM1885C1H120GB01D	C1, C4	CAP CER 12pF 50V 0603	2
CC0603	0.47uF/50V	C1608X7R1H474K080AE	C2	CAP CER 0.47UF 50V 10% X7R 0603	1
CC0603	0.1uF/50V	GRM188R71H104KA93D	C3, C6, C9, C10, C11	CAP CER 0.1UF 50V 10% X7R 0603	5
CC0805_Tantalum	10uF/10V	TPSR106K006R1000	C5, C7, C12, C13, C14	CAP Tantalum 10uF 6.3V 10% 0805	5
CC0603	2.2nF/25V	GCM188R71E473KA37D	C8	CAP CER 0.047UF 25V 0603	1
0603-LED	RED	LTST-C191KFKT	D1	SMD Red LED	1
0603-LED	DNP	150060VS75000	D2	SMD Green LED	1
IND1210	30R@100Mhz, 10A	BLE32PN300SN1L	FB1	Ferrite Bead 30 OHM 10A 100MHz	1
HDR2X7	DNP	90131-0127	JP1	Header, 7-Pin, Dual row	1
HDR6	Header	53398-0671	P1, P5	Header, 6-Pin, Right Angle	2
PicoBlade	6H_PicoBlade				
HDR 1X2	DNP	826646-2	P2, P3, P4	Header, 2-Pin	3
B3U-1000P	DNP	B3U-1000P	P6	Tactile Switches Tactile Switch SPST-NO Top Actuated Surface Mount	1
1206	0R	CRCW12060000Z0EAHP	R1	RES 0.0 OHM 1/2W JUMP 1206	1
0603	10k	MCT0603MC1002FP500	R2, R3	RES 10K OHM 1/8W 1% 0603	2
0603	330R	CRCW0603330RFKEAHP	R4	RES 330R OHM 1/4W 1% 0603	1
0603	DNP	MCT06030C1001FP500	R5	RES 1.0K OHM 1/8W 1% 0603	1
0603	47k	MCT0603MD4702DP500	R6	RES 47K OHM 1/8W 0.5% 0603	1
RF4463F30	RF4463F30	RF4463F30	U1, U2	RF4463F30 High Power Wireless Transceiver Module	2
PC104	PC104	TSW-126-07-G-D	U3	PC104	1
PZ0100A_N	MSP430F6659I PZR	MSP430F6659I PZR	U4	Imported	1
CONN MCX JACK R/A 50 OHM SMD - duplicate	Coaxial_Connectors_90°	1-1337583-0	Y1, Y2	CONN MCX JACK R/A 50OHM SMD	2
ABS06 0805	32.768kHz 12.5pF	ABS06-32.768KHZ-T	Y3	CRYSTAL 32.768KHZ 12.5PF SMD	1
XTAL_CSTCE_G15L	4MHz	CSTCR4M00G15L99-R0	Y4	CER RESONATOR 4MHz SMD Murata	1
					38

Approved	Notes