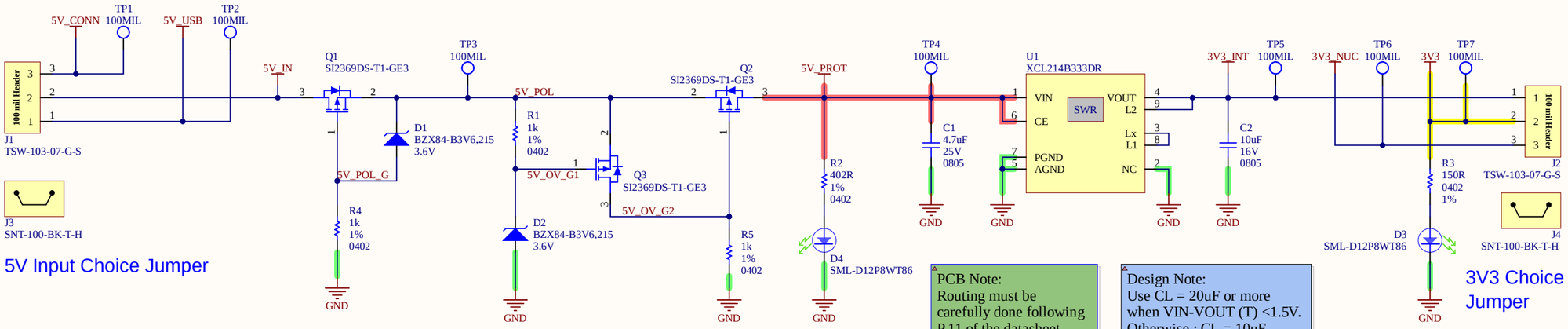
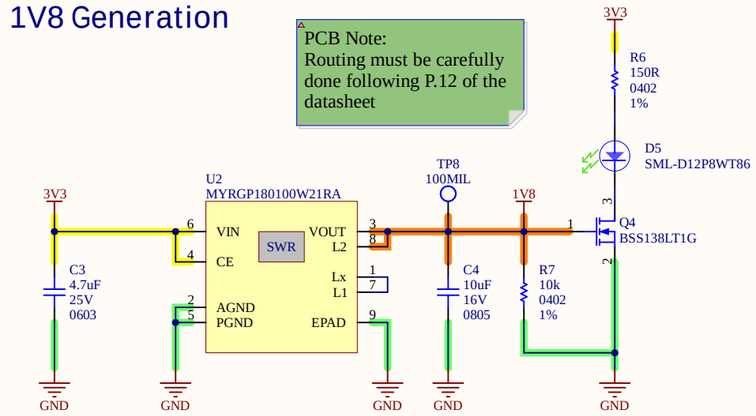
3V3 Generation



5V Nucleo jumper

1V8 Generation



Sheet Name	POWER
Project Title	HiveSight
Global Project	*PMC*
Size: 11x17 / Group: SwarmUS / Revision: 1.000	
Date: 2020-07-13 / Sheet: 1 of 10	
Filename: HIVE_SIGHT_POWER.SchDoc	Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin

HiveSight

PMC

SwarmUS

Revision 1.000

Date : 2020-07-13

Revision history	

Package size conversion	
Metric	*Imperial*
1005	0402
1608	0603
2012	0805
3216	1206
3225	1210
6432	2512

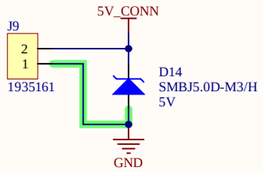
TOP
HIVE_SIGHT_TOP.SchDoc

Fiducials

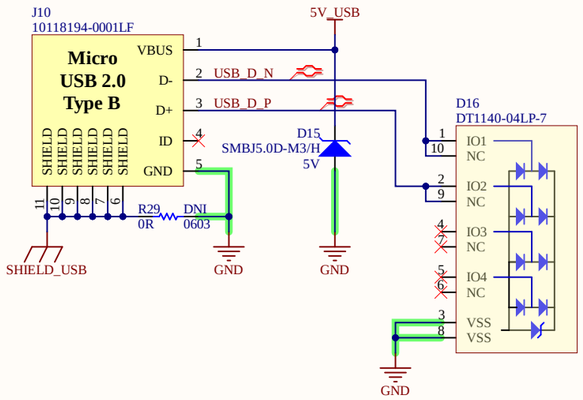
FID1 FID 1MM
FID2 FID 1MM
FID3 FID 1MM

Project Title: HiveSight		
Global Project: *PMC*		
Size: 11x17	Group: SwarmUS	Revision: 1.000
Date: 2020-07-13		Sheet: 2 of 10
Filename: HIVE_SIGHT_TITLE.SchDoc		Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin

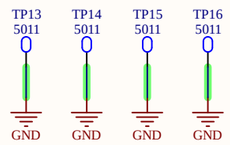
Power input term. block

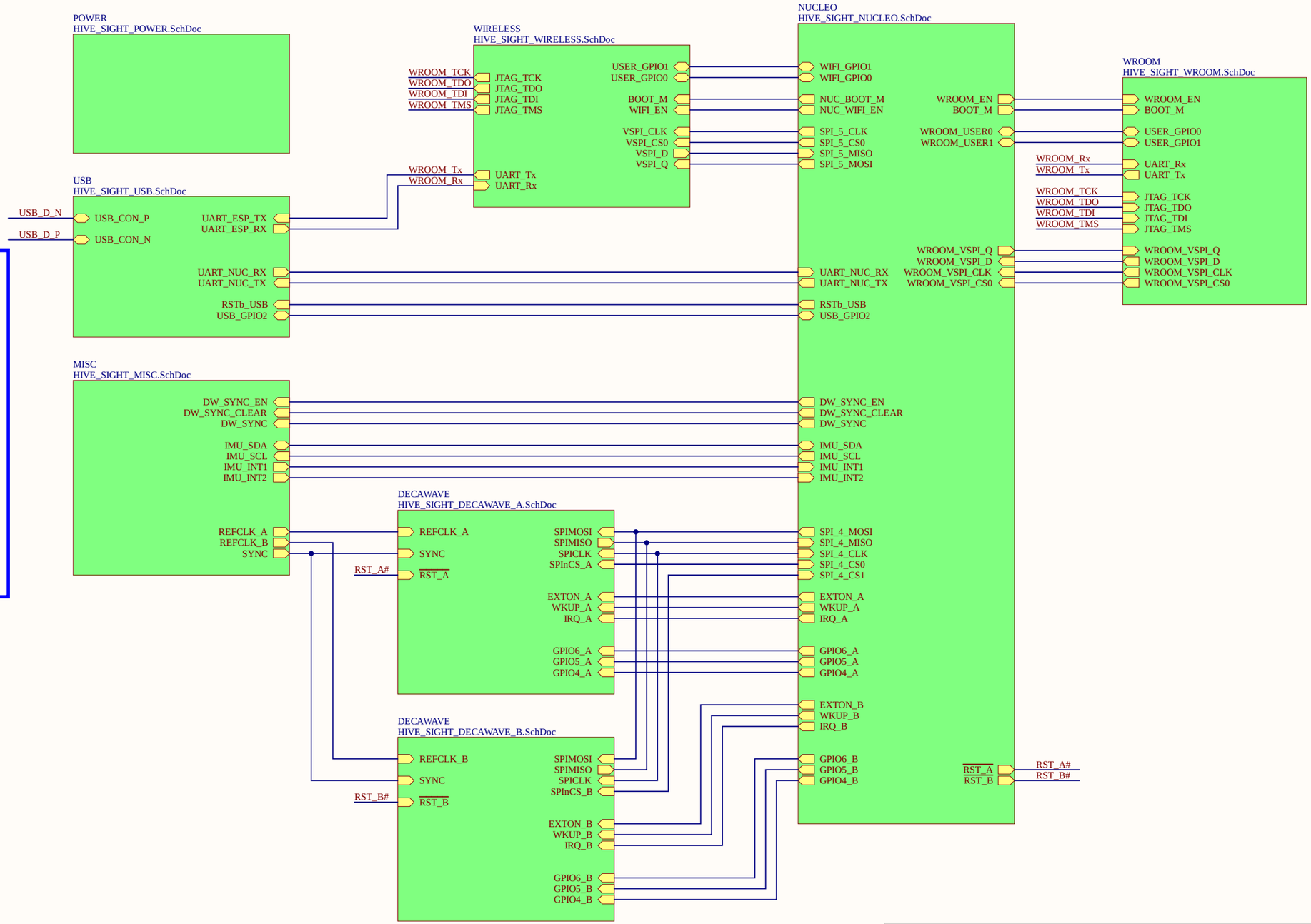


USB connector + protections



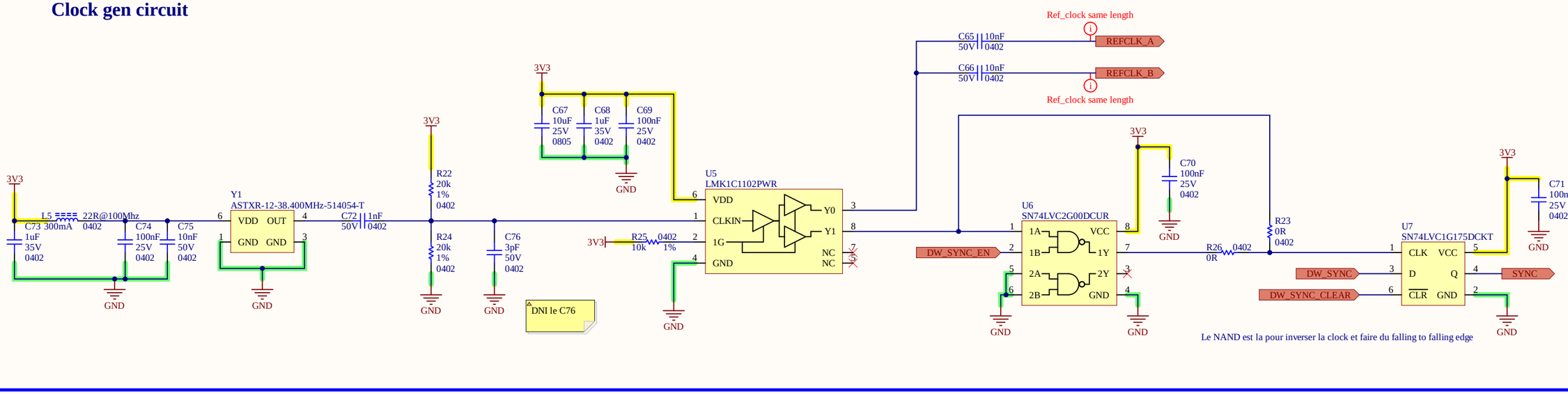
GND TPO



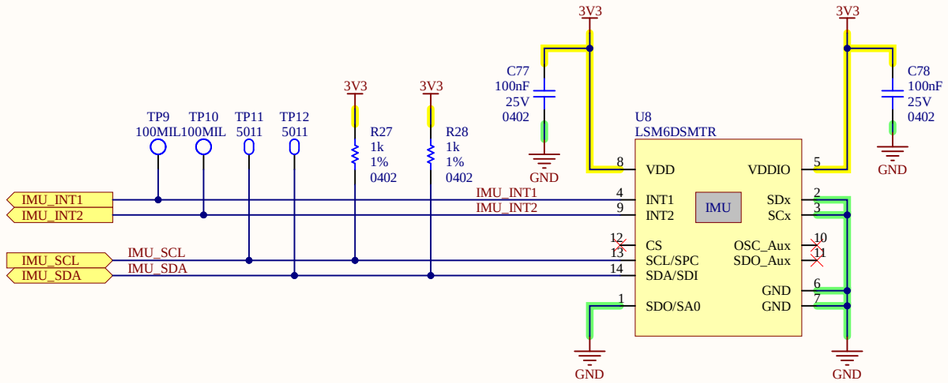


Sheet Name	Top
Project Title	HiveSight
Global Project	*PMC*
Size / Group / Revision	11x17 / SwarmUS / 1.000
Date / Sheet	2020-07-13 / 3 of 10
Filename	HIVE_SIGHT_TOP.SchDoc
Designers	Philippe Arsenault Hubert Dube Louis-Daniel Gaulin

Clock gen circuit

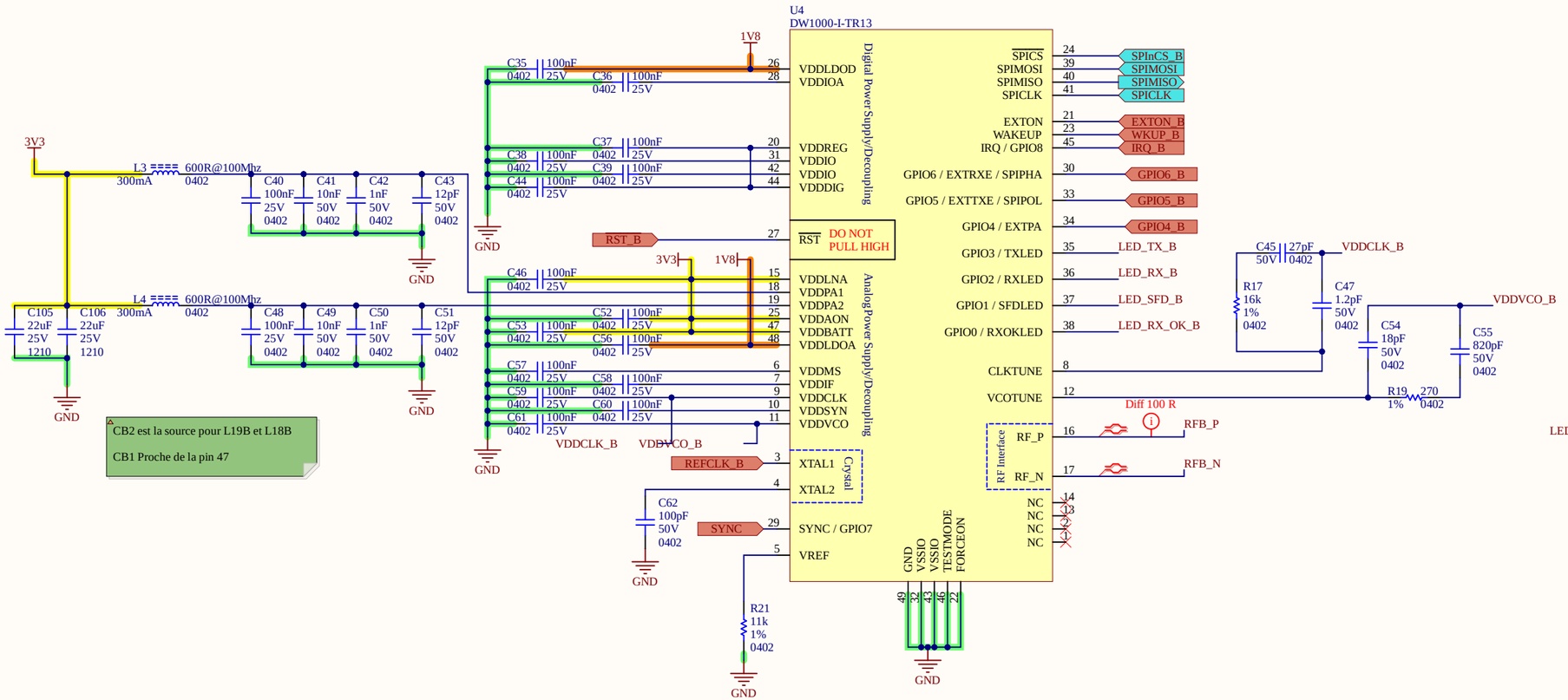


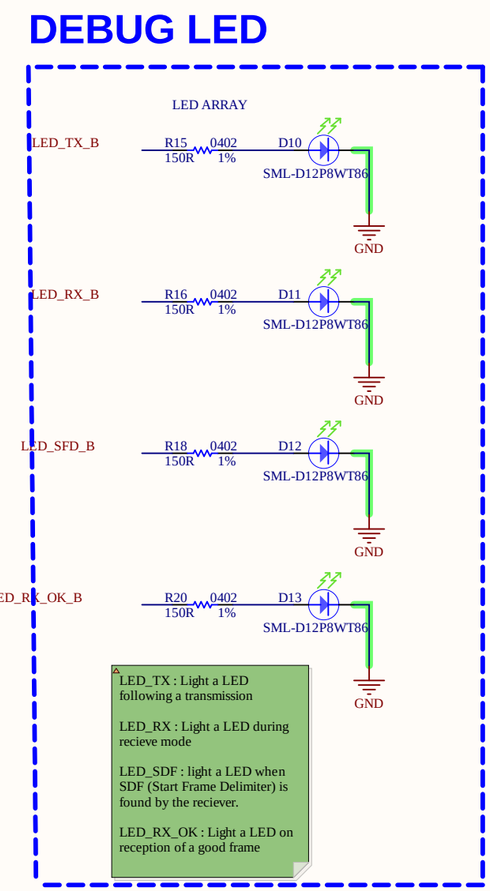
IMU



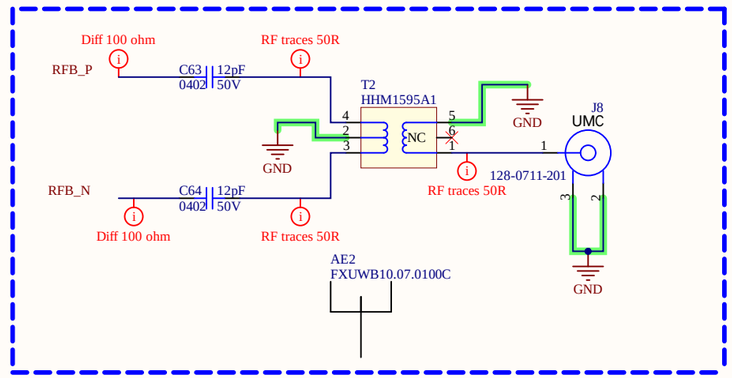
Sheet Name: DECAWAVE		
Project Title: HiveSight		
Global Project: *PMC*		
Size: 11x17	Group: SwarmUS	Revision: 1.000
Date: 2020-07-13	Sheet: 4 of 10	
Filename: HIVE_SIGHT_MISC.SchDoc	Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin	

Decawave B



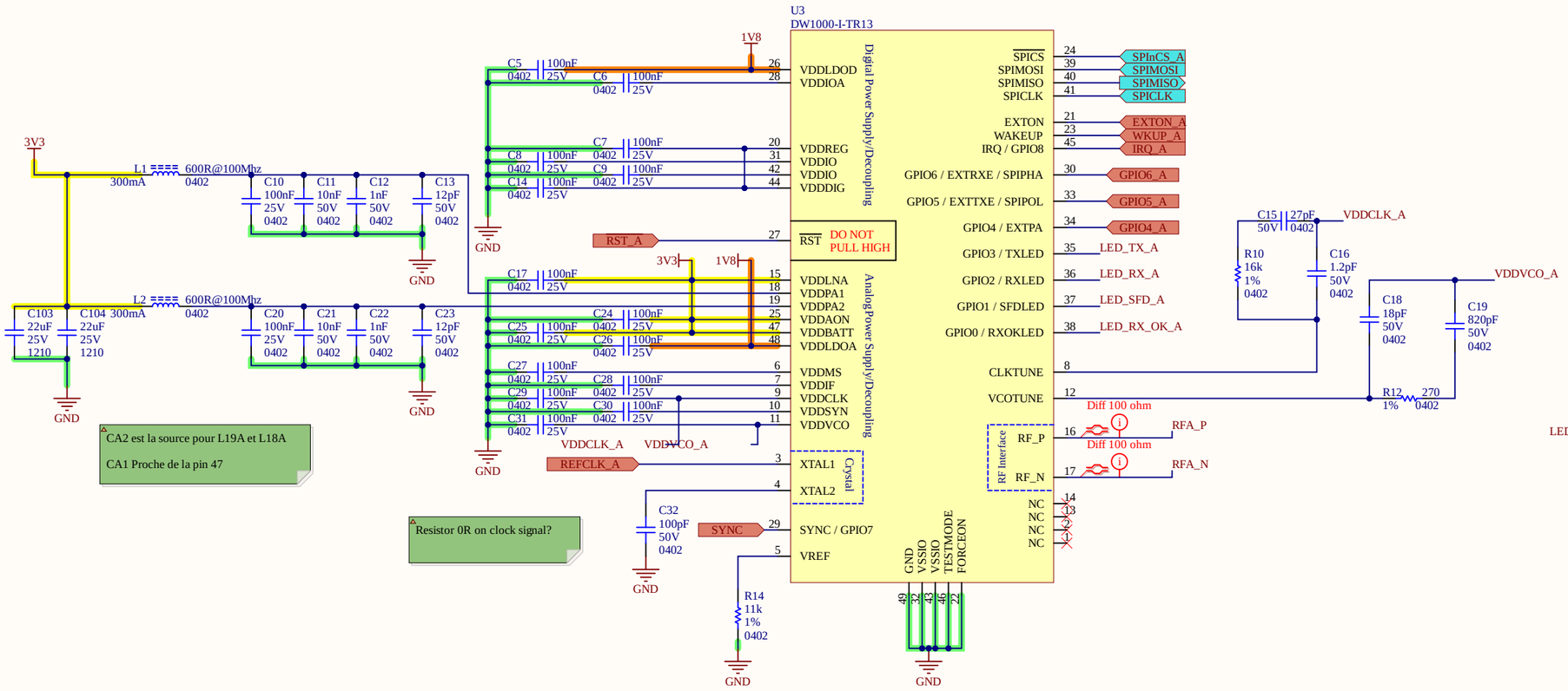


RF Circuit

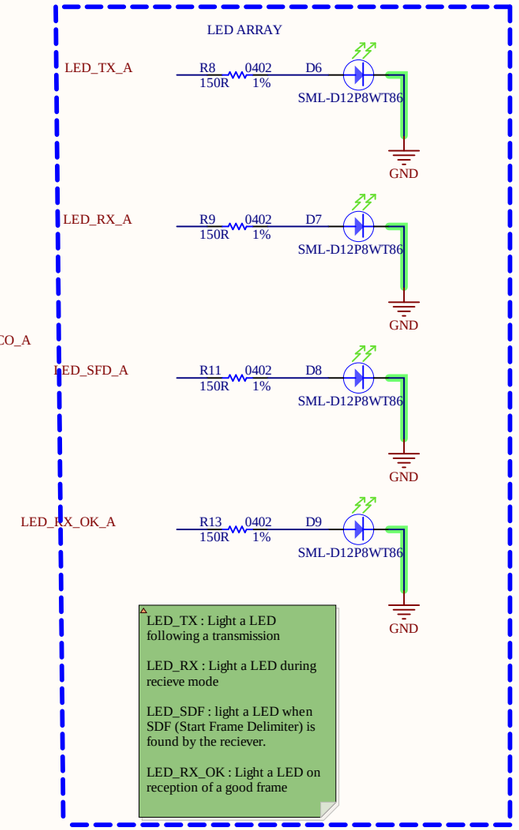


Sheet Name: DECAWAVE		
Project Title: HiveSight		
Global Project: *PMC*		
Size: 11x17	Group: SwarmUS	Revision: 1.000
Date: 2020-07-13	Sheet: 4 of 10	
Filename: HIVE_SIGHT_DECAWAVE_B.SchDoc	Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin	

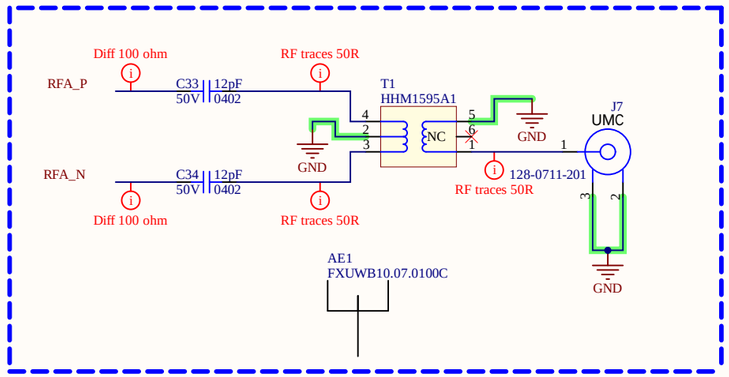
Decawave A



DEBUG LED

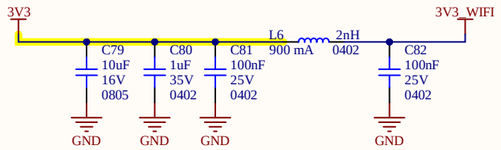


RF Circuit

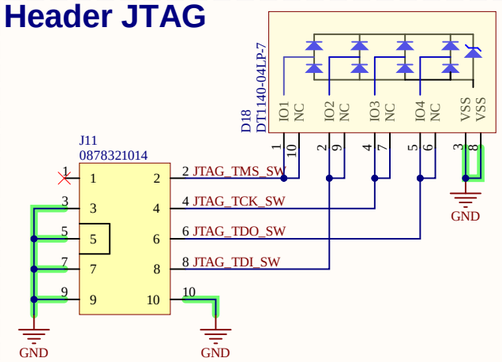


Sheet Name	DECAWAVE		
Project Title	HiveSight		
Global Project	*PMC*		
Size: 11x17	Group: SwarmUS		Revision: 1.000
Date: 2020-07-13	Sheet: 4 of 10		
Filename: HIVE_SIGHT_DECAWAVE_A.SchDoc	Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin		

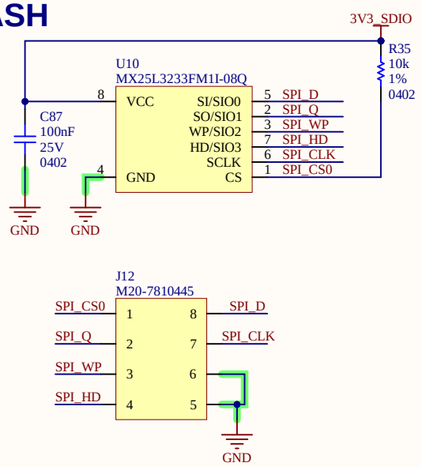
POWER



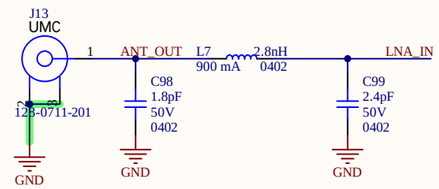
Header JTAG



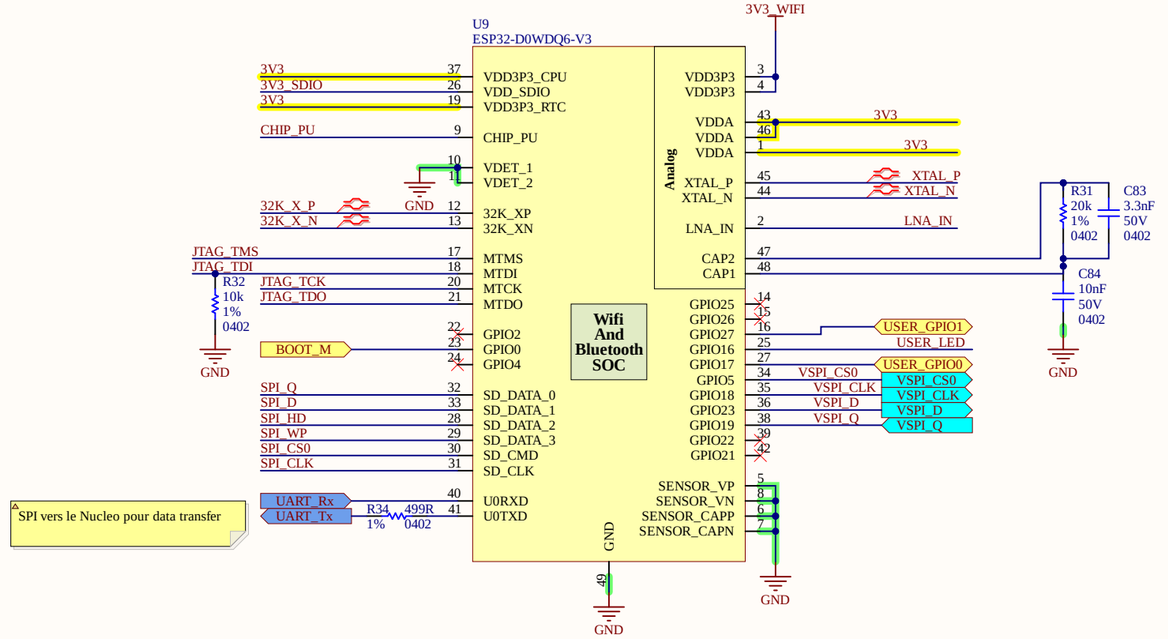
FLASH



Antenna

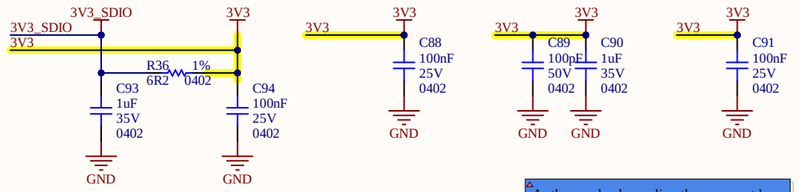


U9 ESP32-D0WDQ6-V3



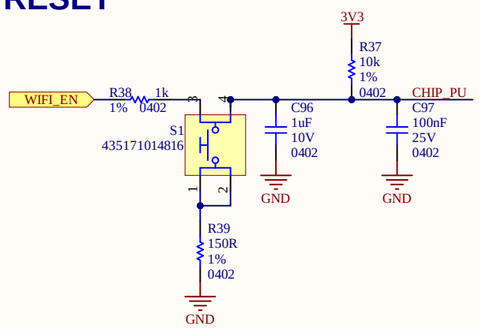
SPI vers le Nucleo pour data transfer

BANK SUPPLIES

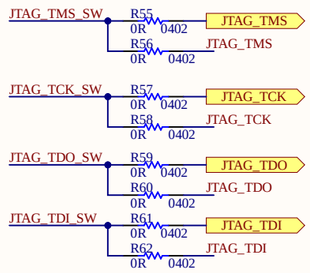


As they are bank supplies, the caps must be placed the closest possible to their pin, with the smallest values closer to the pin

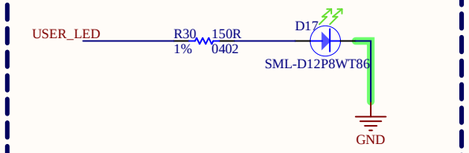
RESET



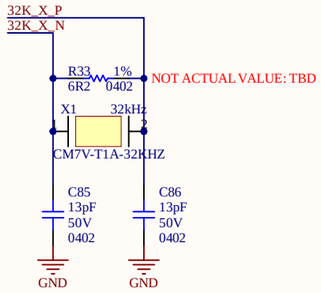
JTAG SELECT



LED

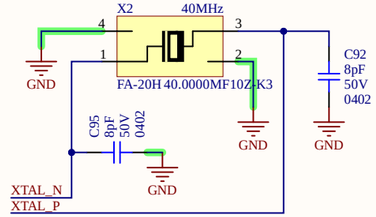


Crystal 32kHz



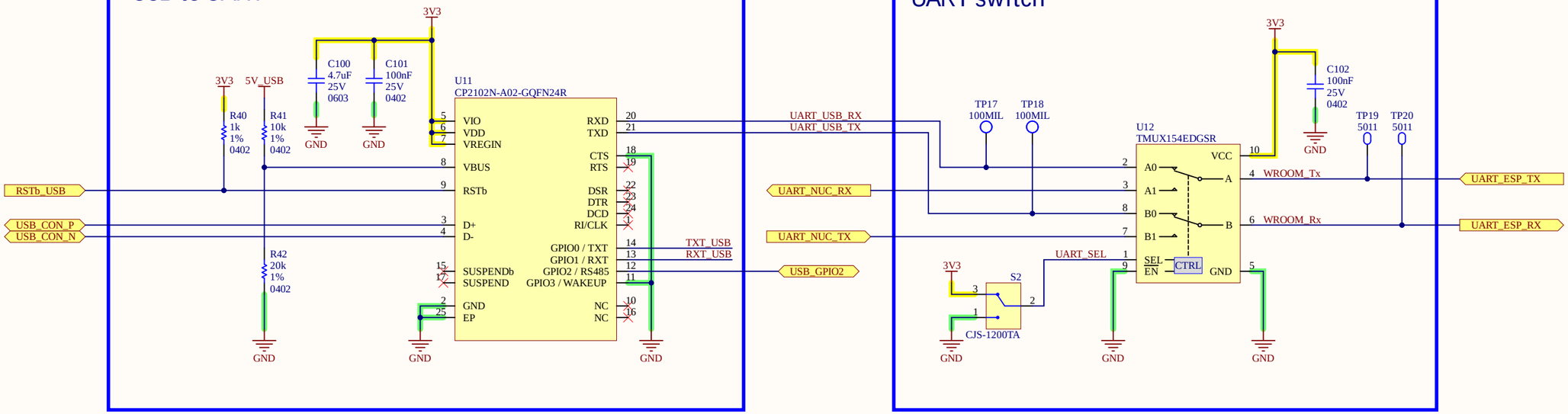
Crystal 40MHz

Put closest possible to the chip



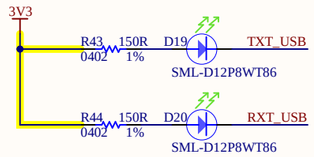
Sheet Name	WIRELESS	
Project Title	HiveSight	
Global Project	*PMC*	
Size: 11x17	Group: SwarmUS	Revision: 1.000
Date: 2020-07-13	Sheet: 5 of 10	
Filename: HIVE_SIGHT_WIRELESS.SchDoc	Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin	

USB to UART



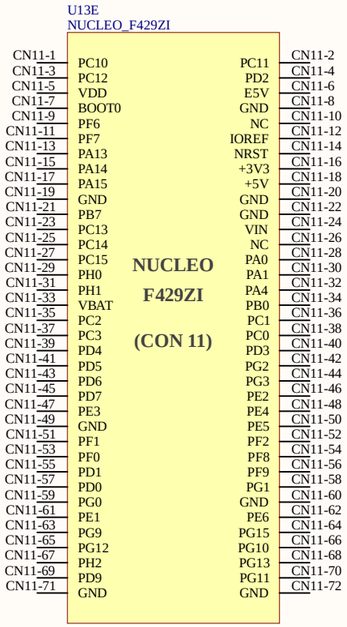
UART switch

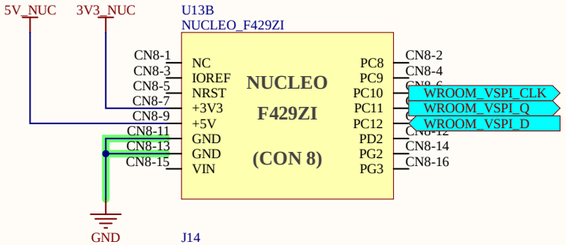
LEDs

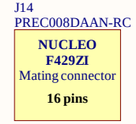


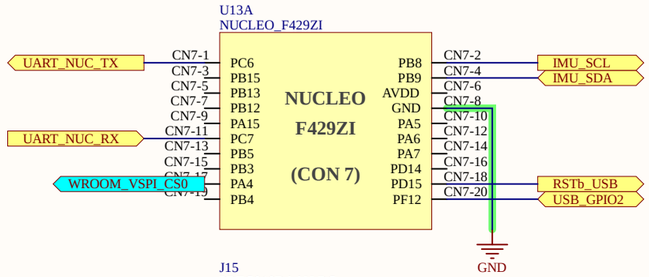
SEL logic:
SEL = 0 (GND) : A,B to A0,B0 (USB)
SEL = 1 (3V3) : A,B to A1,B1 (Nucleo)

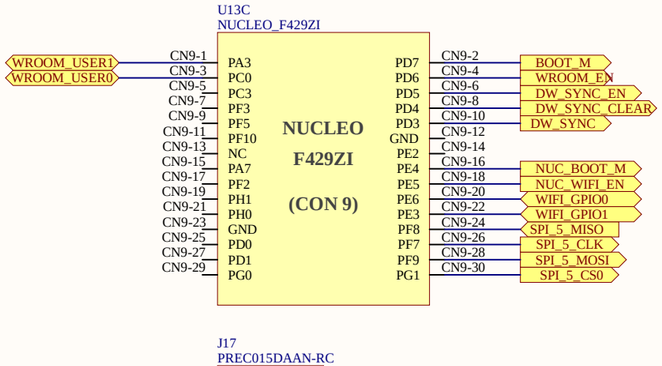
Sheet Name	USB	
Project Title	HiveSight	
Global Project	*PMC*	
Size: 11x17	Group: SwarmUS	Revision: 1.000
Date: 2020-07-13	Sheet: 6 of 10	
Filename: HIVE_SIGHT_USB.SchDoc	Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin	

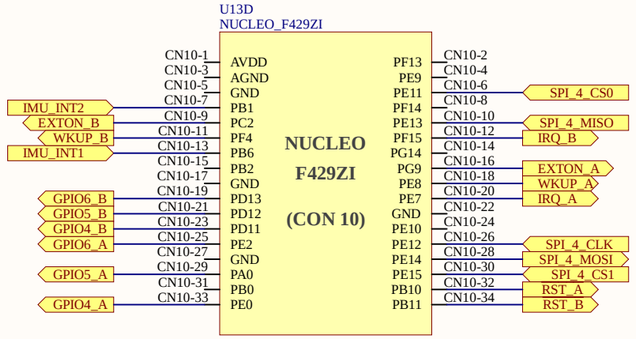


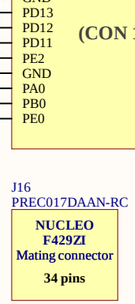


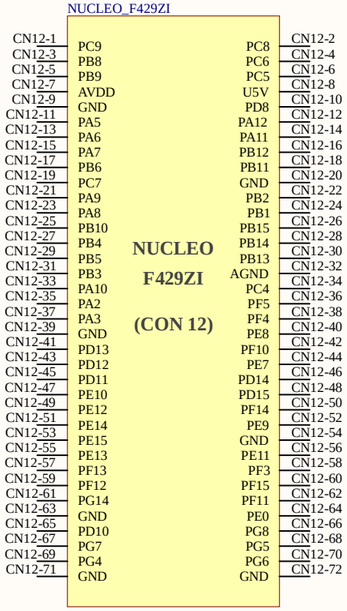






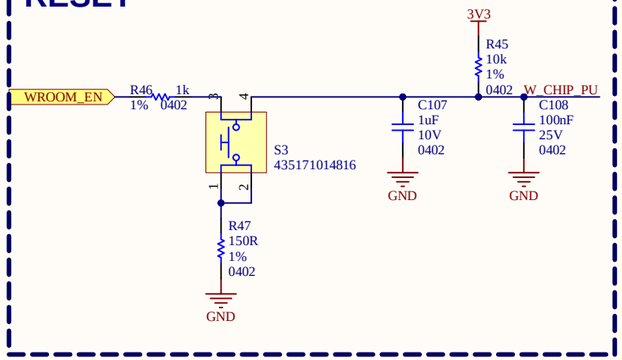




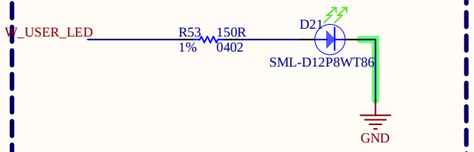


Sheet Name	Insert name in Document Parameters
Project Title	HiveSight
Global Project	*PMC*
Size: 11x17 / Group: SwarmUS / Revision PCB SCH: .	
Date: 2020-07-13 / Sheet: * of 10	
Filename: HIVE_SIGHT_NUCLEO.SchDoc	Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin

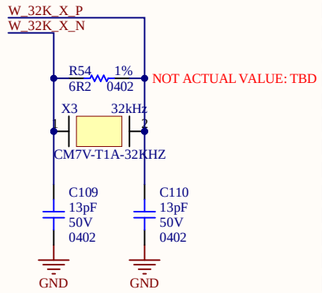
RESET



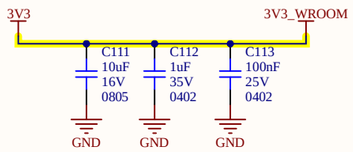
LED

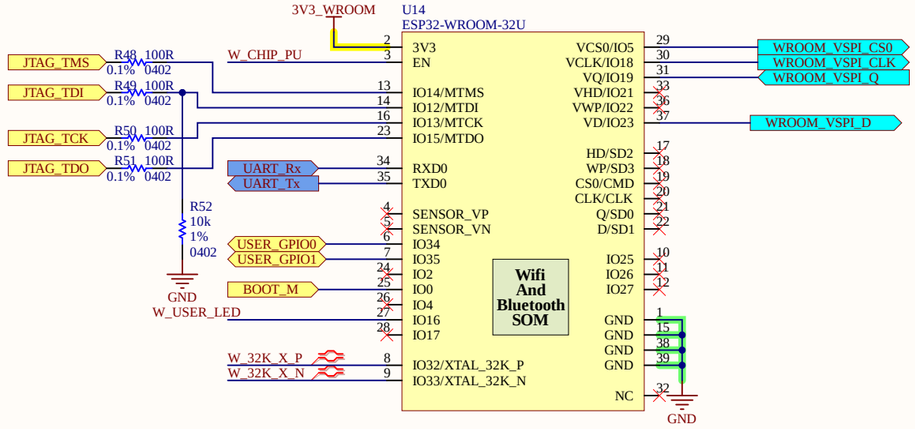


Crystal 32kHz



POWER





Sheet Name	WROOM
Project Title	HiveSight
Global Project	*PMC*
Size: 11x17 / Group: SwarmUS / Revision: 1.000	
Date: 2020-07-13 / Sheet: * of 10	
Filename: HIVE_SIGHT_WROOM.SchDoc	Designers: Philippe Arsenault, Hubert Dube, Louis-Daniel Gaulin