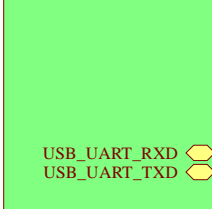


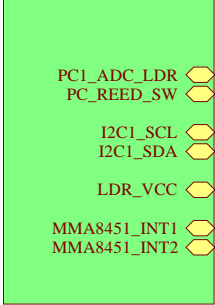
PowerSupply
002_PowerSupply.SchDoc



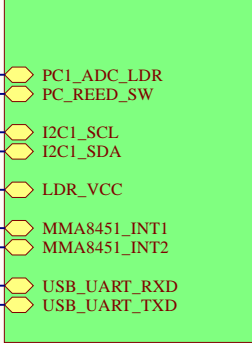
USB_UART
005_USB_to_UART.SchDoc



Sensor
004_Sensor.SchDoc



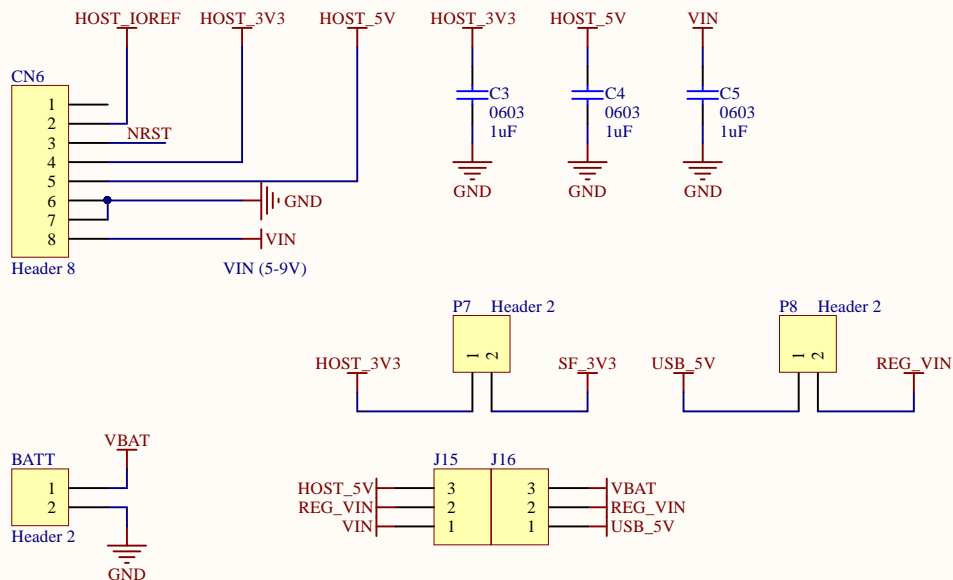
Sigfox
006_Sigfox_Modem.SchDoc



Revision	History	Changes
1.0.1	January 2017	Initial Version
1.0.2	Feburary 9th 2017	Change R19 to 5.1k Swapped SCL and SDA on P14 Removed U8, R31, C14
1.0.3	Feb 10th 2017	Changed silk screen layout to aid usefulness Removed annotations on PH1



Title Sigfox Module Dev Kit - System Block		
Size A4	Number	Revision 1.0.1
Date:	13/02/2017	Sheet 1 of 6
File:	C:\Users\...\001_System_Block.SchDoc	Drawn By:

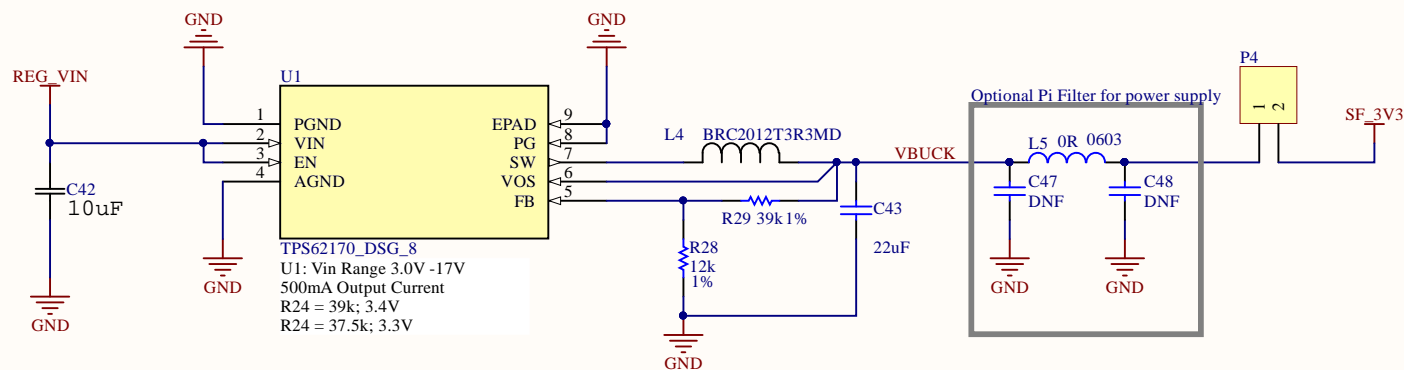


Host Powered from Shield:
Host can be powered from battery system.
NOTE: DOING THIS WILL LIMIT SYSTEM TO BROWN OUT AT
VBAT=5V

Shield powered from Host:
VIN from Arduino power jack or 5V input from Arduino 5V

The Arduino has 3.3V linear regulator capable of 150mA output. This is NOT suitable for driving an RCZ2/4 Sigfox modem.
Nucleo has a 500mA 3.3V regulator which is suitable for powering Sigfox modem.
Alternatively, Nucleo can be powered via 3.3V supply (P7) after configuring any of the standard Dev kit power supplies

Options:
VIN from VIN on CN6-8: J15[1-2]
VIN from 5V on CN6-5: J15[2-3]
VIN from 3V3 on CN6-4: P7
VIN from VBAT, VOUT from CN6-8: J16[2-3] + J15[1-2]
VIN from USB, VOUT from CN6-8: J16[1-2] + J15[1-2]



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Title			Sigfox Module Dev Kit - Power Supply
Size	Number	Revision	
A4		0.1	
Date:	13/02/2017	Sheet 2 of	6
File:	C:\Users\...\002_PowerSupply.SchDoc	Drawn By:	

1

A

A

B

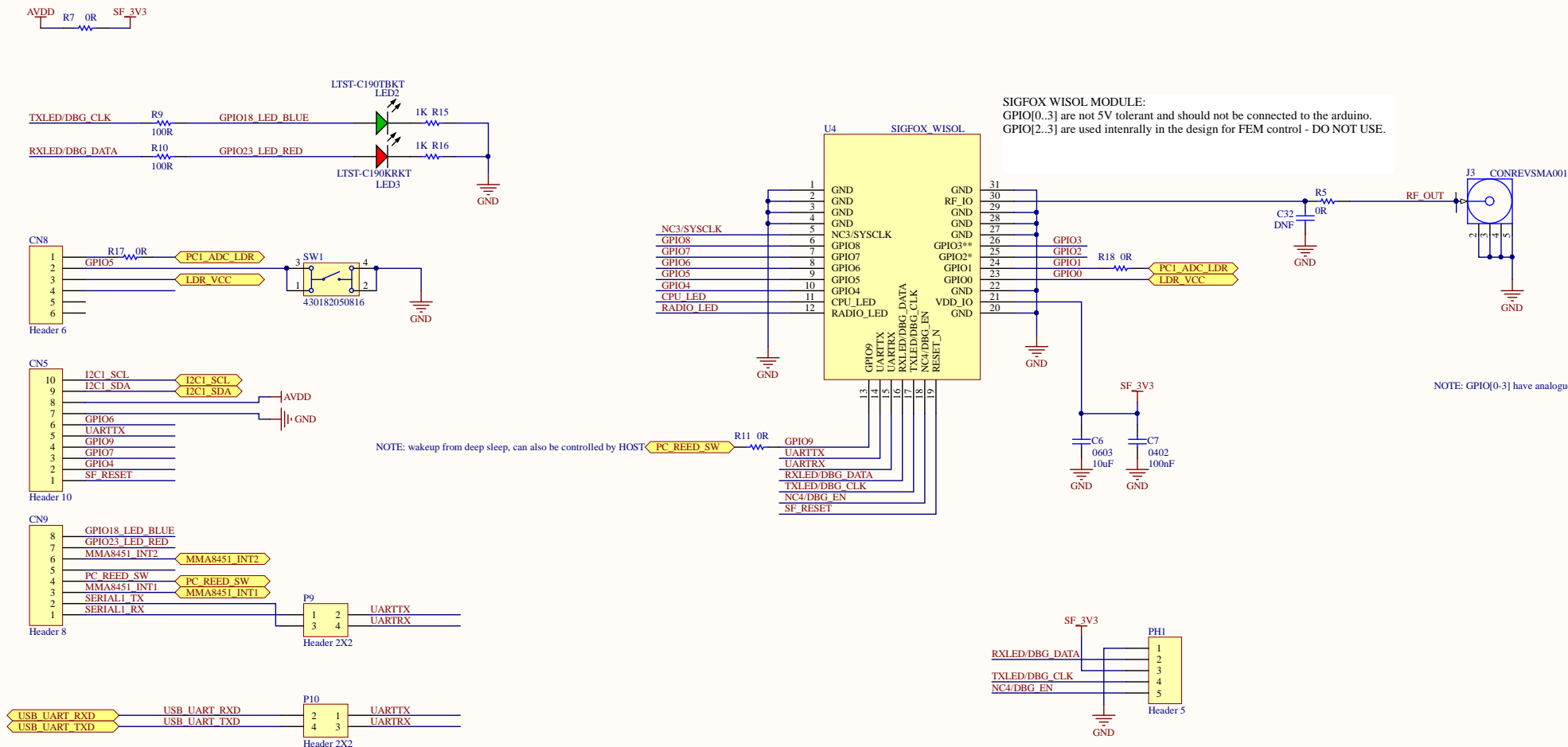
B

C

C

D

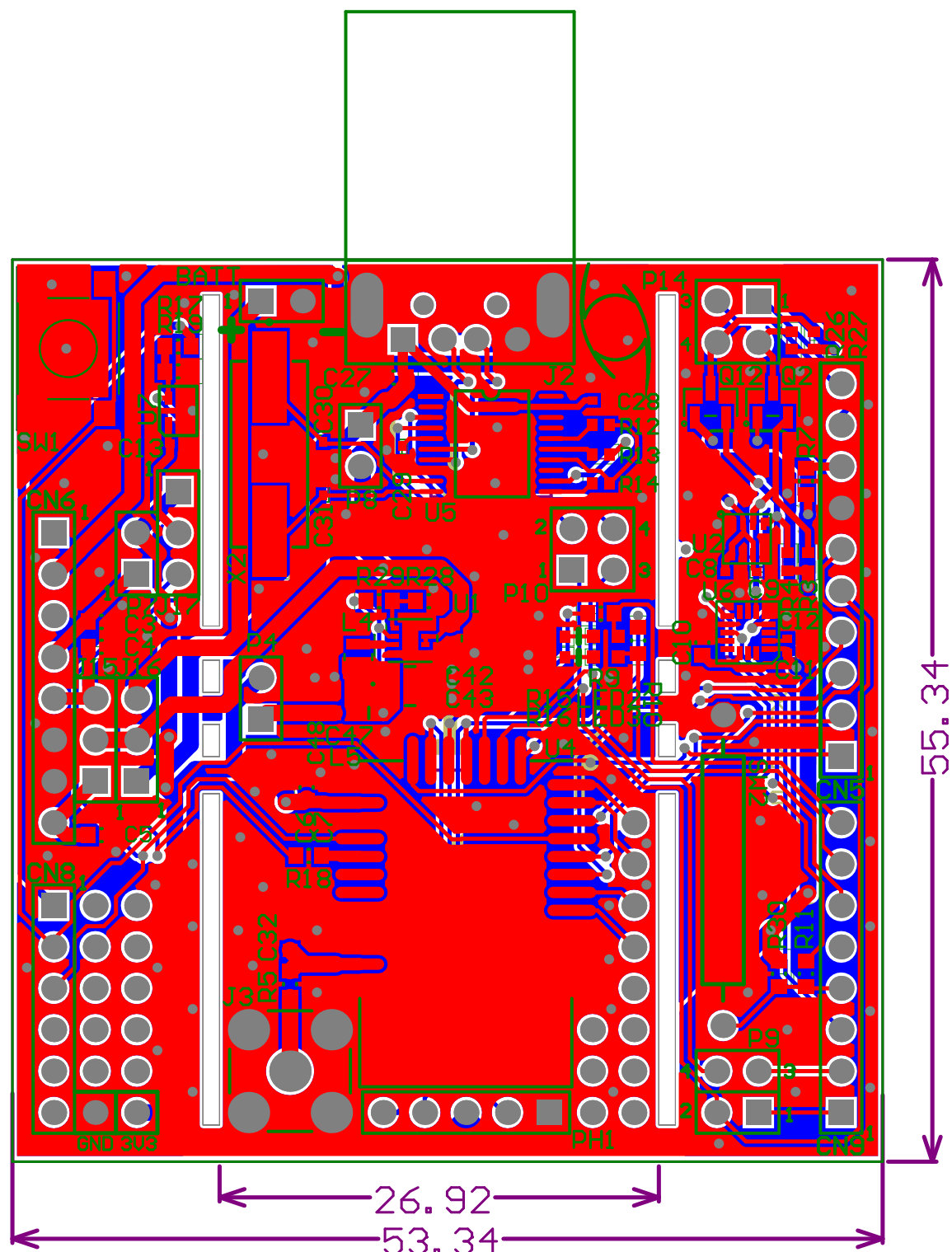
D



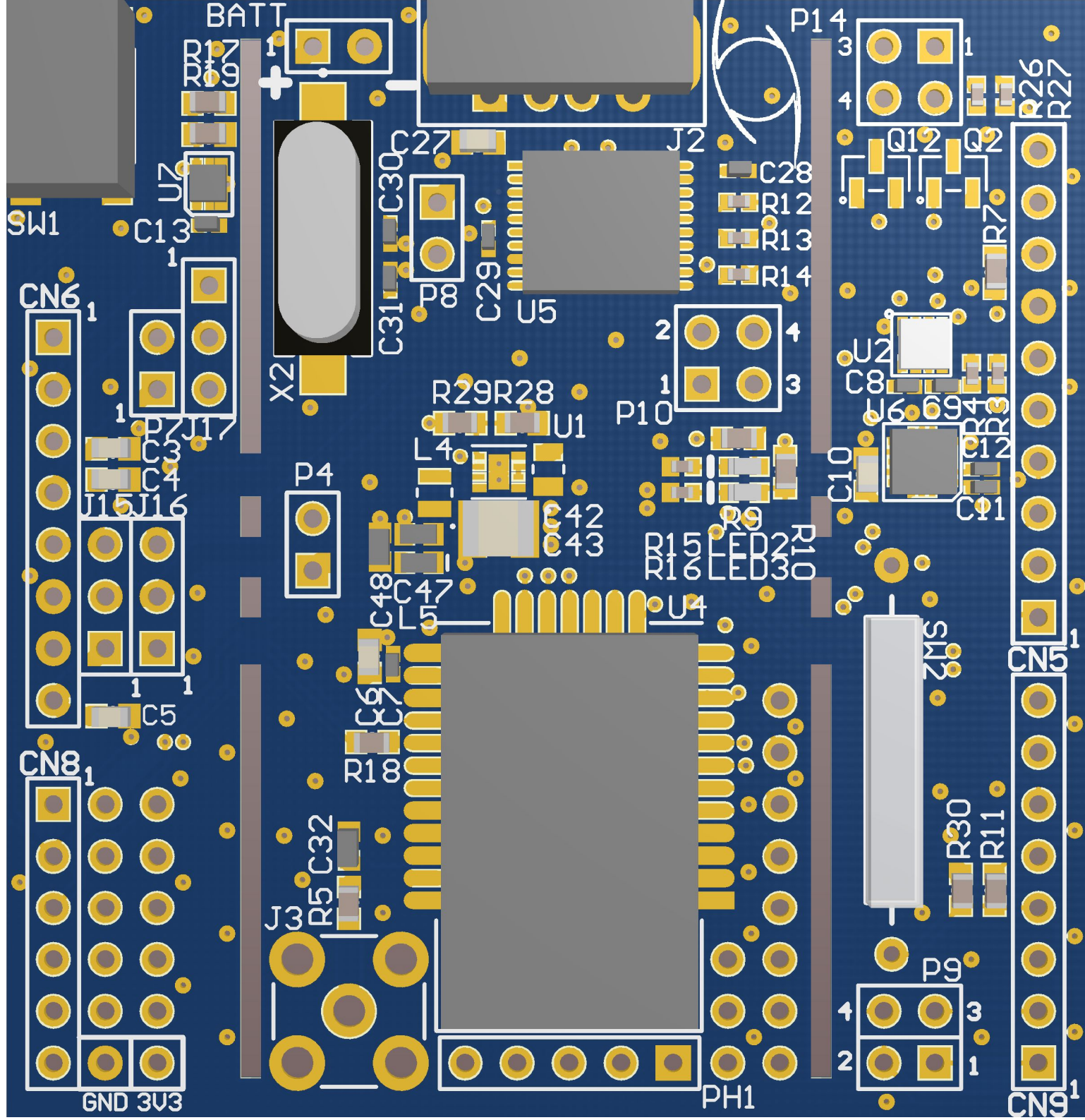
LUCIDTRON

Title TX1 Sigfox Module Dev Kit

Size	Number	Revision
A3	1.0.0	
Date:	13/02/2017	Sheet of 6
File:	C:\Users\...006 Sigfox Modem.SchDoc	Drawn By:



Dimensions in mm



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SF-P1-DK1 v1.0.3

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GND 3V3