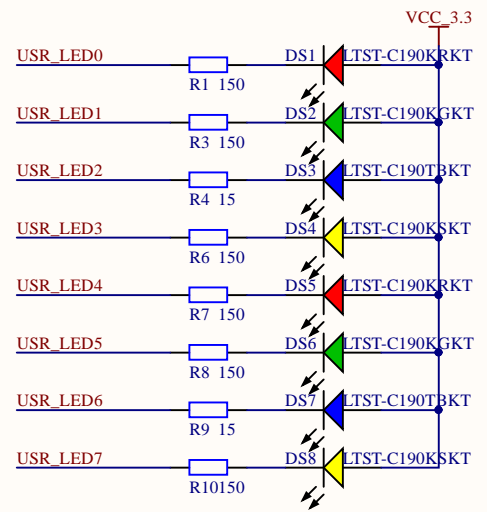
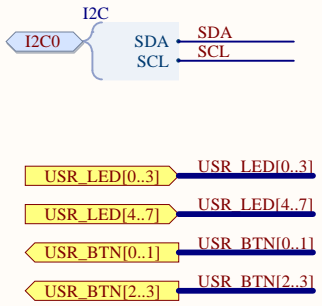


A

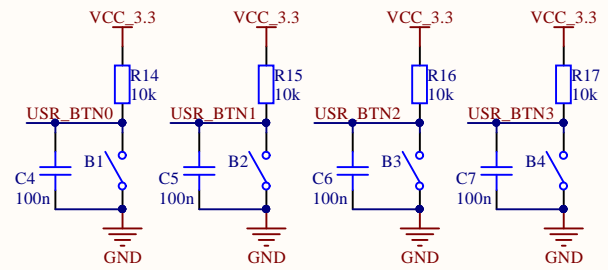
B

C

D

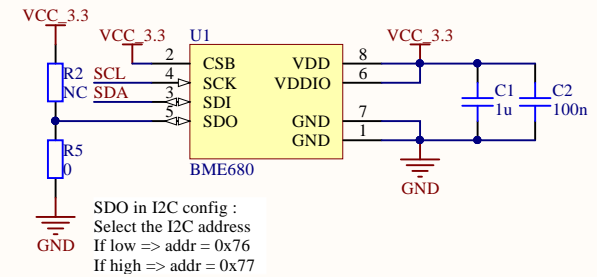


Leds controlled by the user
Half from the LoRa MCU, the other half from the bluetooth MCU



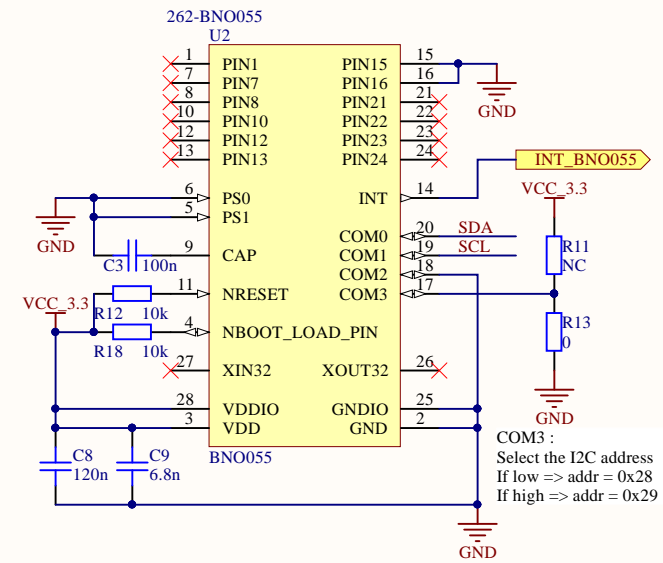
Buttons read by the user
Half from the LoRa MCU, the other half from the bluetooth MCU


Combined humidity, pressure, temp and gas sensor

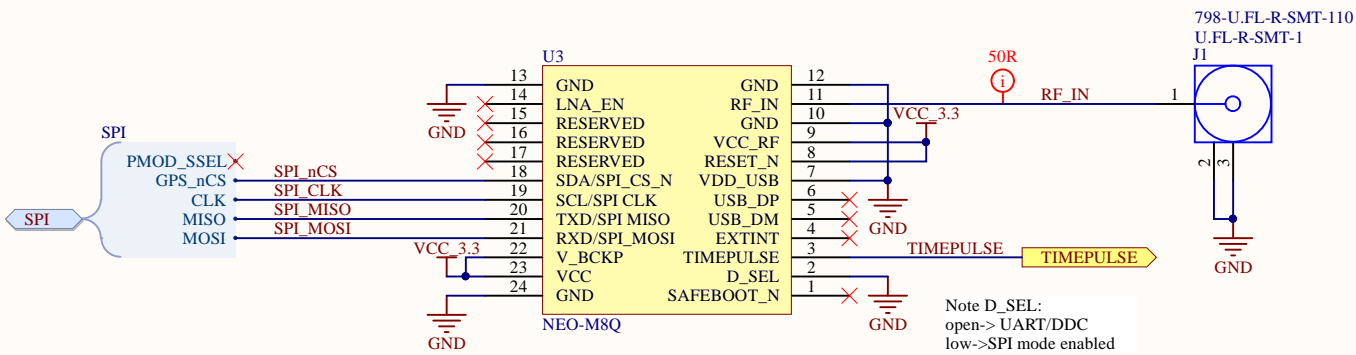


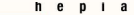
SDO in I2C config :
Select the I2C address
If low => addr = 0x76
If high => addr = 0x77

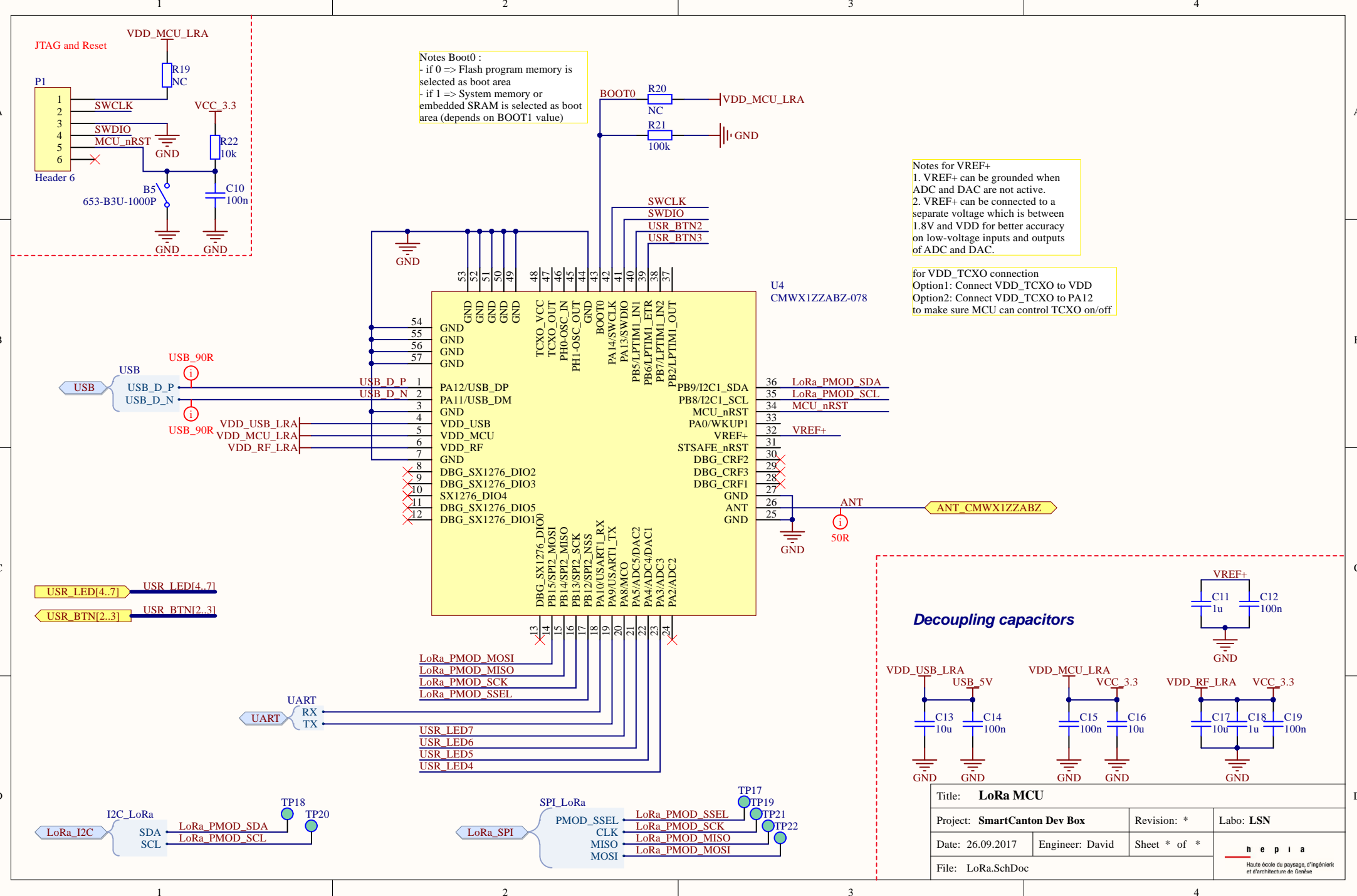
Inertial platform 9Axis



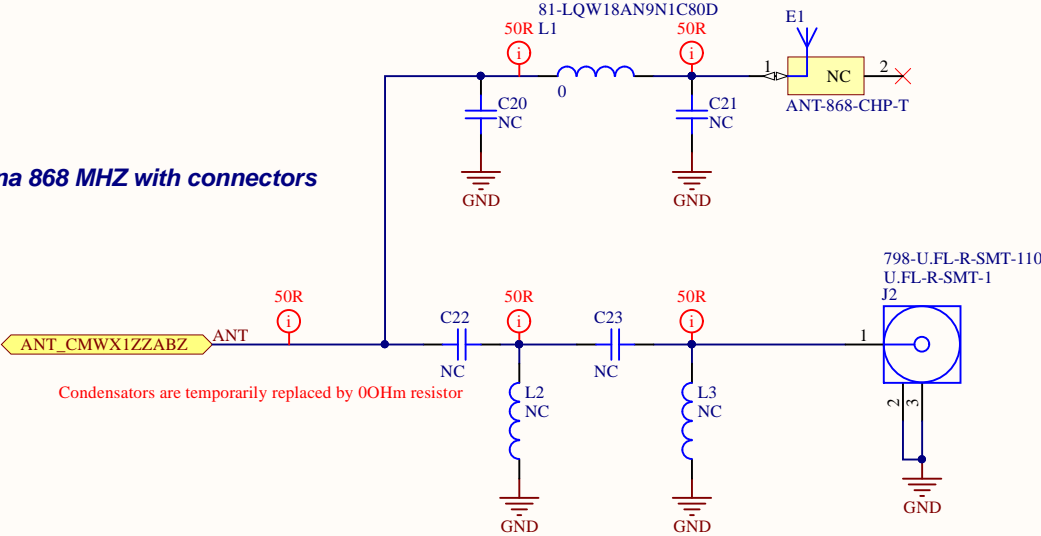
Title: Embedded Sensors			
Project: SmartCanton Dev Box		Revision: *	Labo: LSN
Date: 26.09.2017	Engineer: David	Sheet * of *	<div> Haute école du paysage, d'ingénierie et d'architecture de Genève</div>
File: EmbeddedPeripherals.SchDoc			



Title: GPS			
Project: SmartCanton Dev Box		Revision: *	Labo: LSN
Date: 11.09.2017	Engineer: David	Sheet * of *	
File: GPS.SchDoc		 Haute école du paysage, d'ingénierie et d'architecture de Genève	



Antenna 868 MHZ with connectors



Title: **LoRa Antenna**

Project: **SmartCanton Dev Box**

Revision: *

Labo: **LSN**

Date: 26.09.2017

Engineer: David

Sheet * of *

File: LoRaAntenna.SchDoc

A

B

C

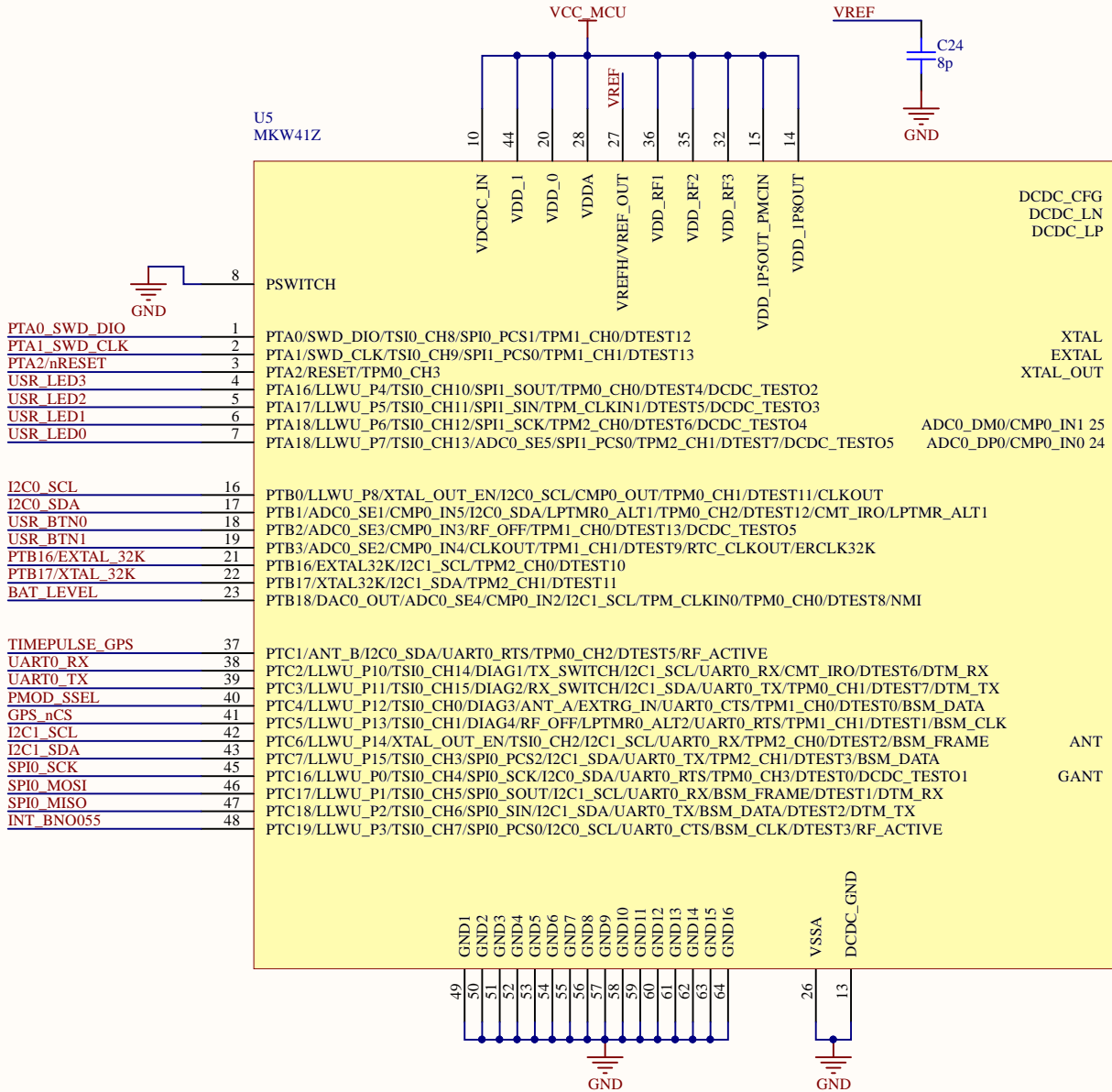
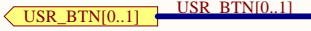
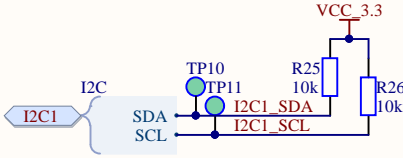
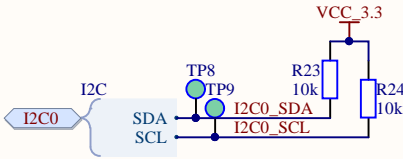
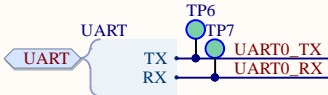
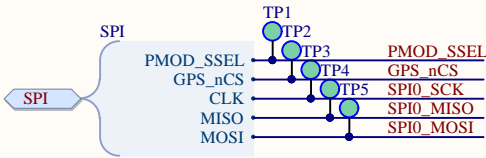
D

A

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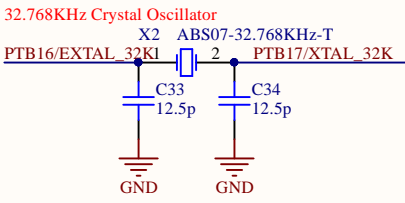
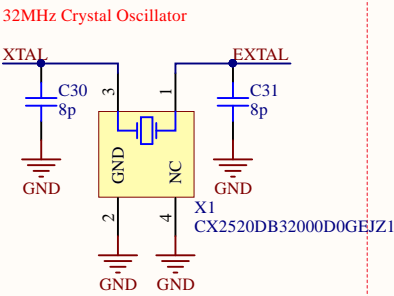
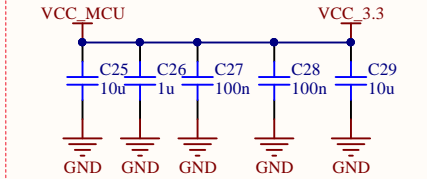
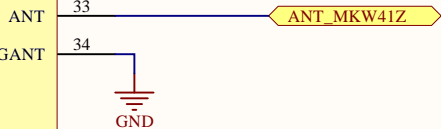
C

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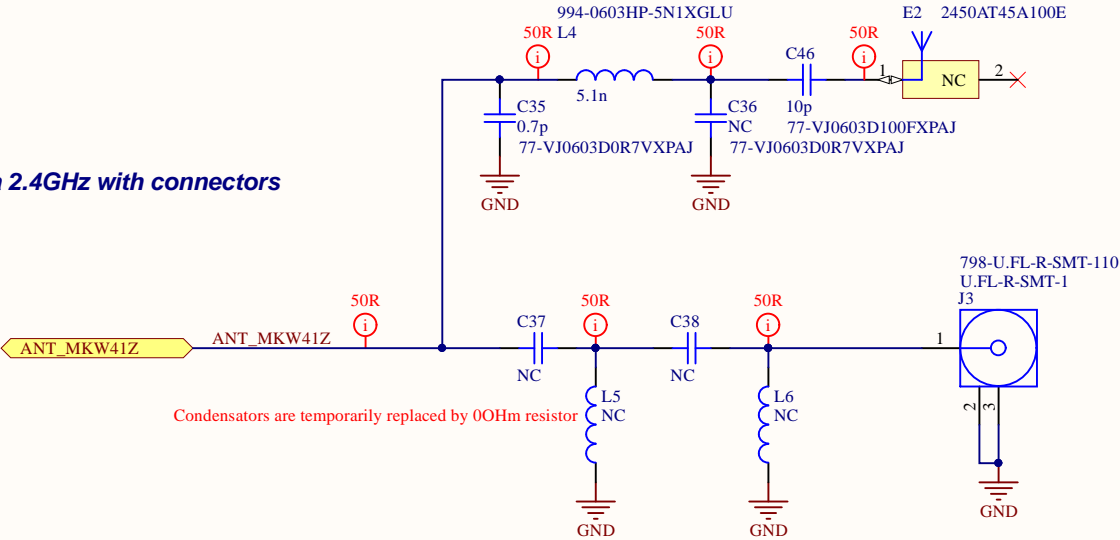
DCDC_CFG
DCDC_LN
DCDC_LP

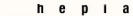
DCDC configured in BYPASS MODE (cf. p98 ref manual for more informations). The power supply is 100% from an extern converter to provide 3.3 V



Title: Bluetooth MCU			
Project: SmartCanton Dev Box		Revision: *	Labo: LSN
Date: 26.09.2017	Engineer: David	Sheet * of *	<div><div>h e p i a</div><div>Haute école du paysage, d'ingénierie et d'architecture de Genève</div></div>
File: MCU.SchDoc			

Antenna 2.4GHz with connectors



Title: Bluetooth MCU Antenna			
Project: SmartCanton Dev Box		Revision: *	Labo: LSN
Date: 27.09.2017	Engineer: David	Sheet * of *	
File: MCUAntenna.SchDoc		 Haute école du paysage, d'ingénierie et d'architecture de Genève	

A

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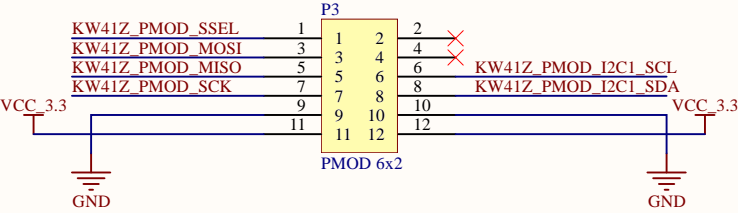
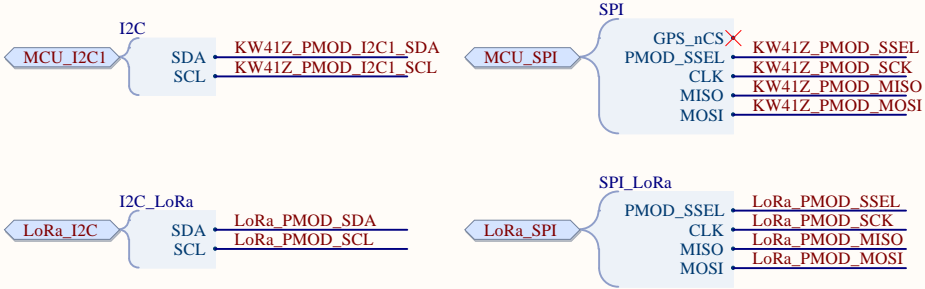
D

A

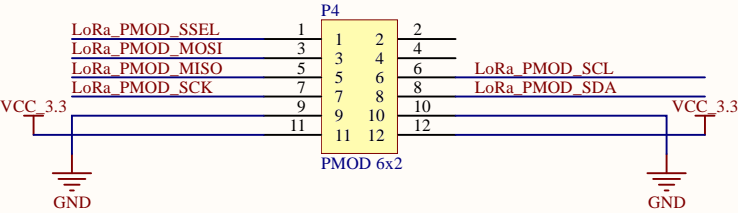
B

C

D

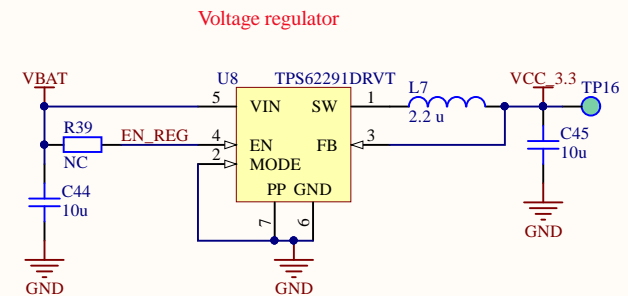
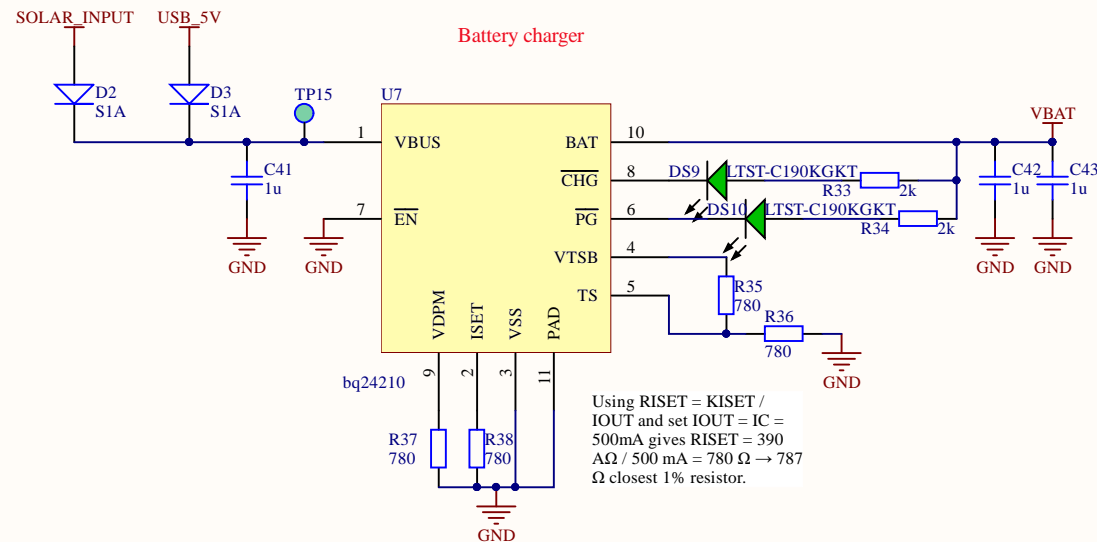
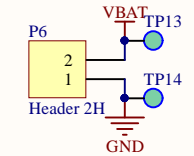
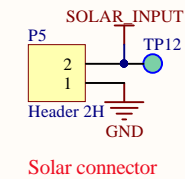
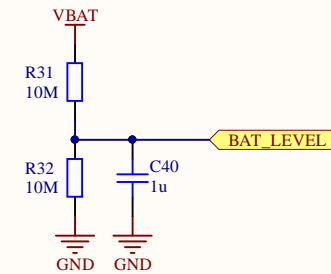
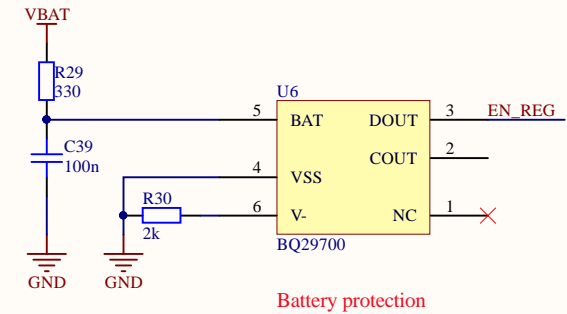
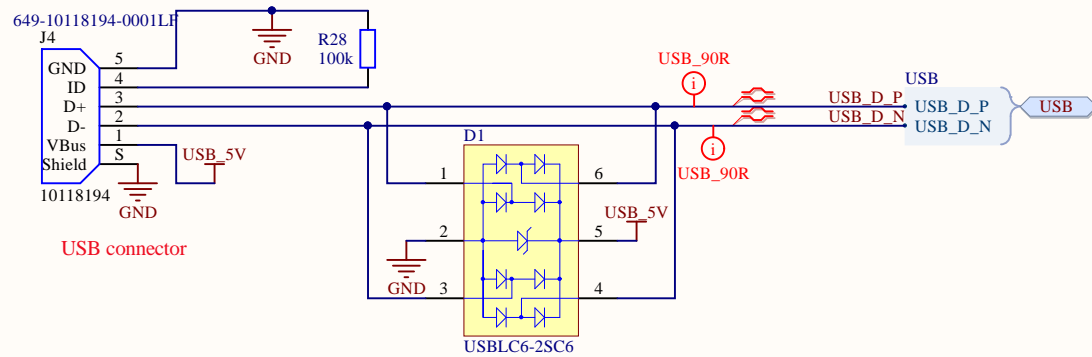


Connector Pmod I2C and SPI connected to the KW41Z



Connector Pmod I2C and SPI connected to the LoRa module

Title: *			
Project: Project name		Revision: *	Labo: LSN
Date: 22.09.2017	Engineer: *	Sheet * of *	<div><div>h e p i a</div><div>Haute école du paysage, d'ingénierie et d'architecture de Genève</div></div>
File: PMOD.SchDoc			



Title: Power Supply			
Project: SmartCanton Dev Box		Revision: *	Labo: LSN
Date: 27.09.2017	Engineer: David	Sheet * of *	n e p i a
File: PowerSupply.SchDoc		Haute école du paysage, d'ingénierie et d'architecture du Genève	

A

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D

A

B

C

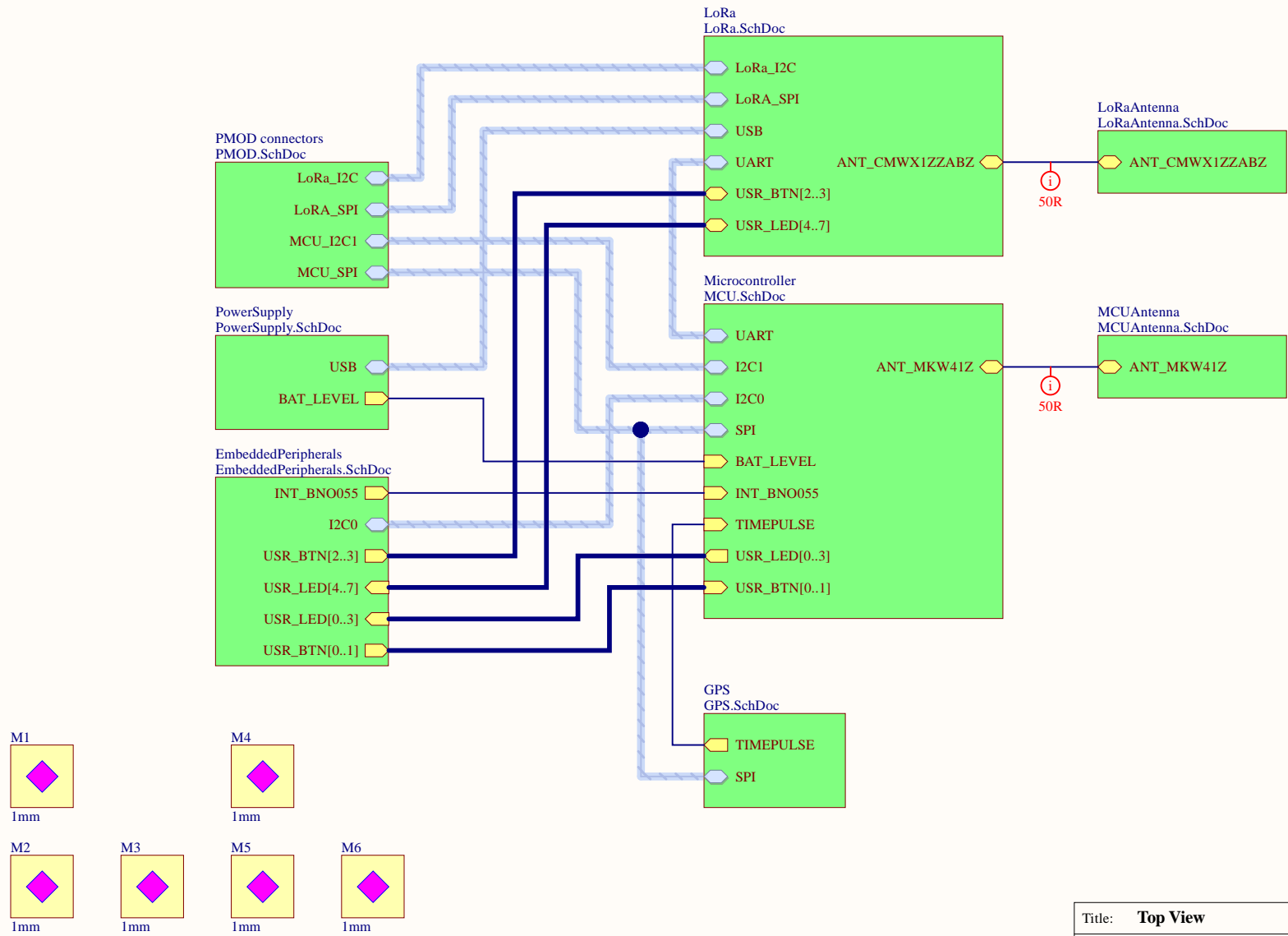
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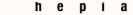
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4



Title: Top View			
Project: SmartCanton Dev Box		Revision: *	Labo: LSN
Date: 22.09.2017	Engineer: David	Sheet * of *	
File: SmartCantonDevBox_TopPage.SchDoc		 Haute école du paysage, d'ingénierie et d'architecture de Genève	

1

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