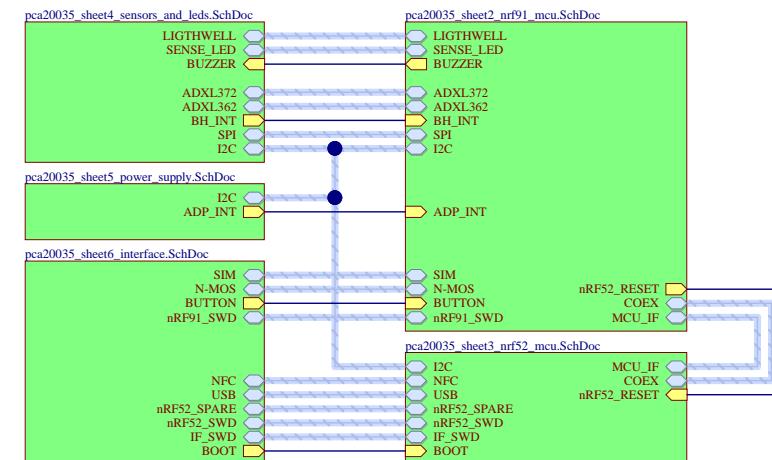


Nordic Semiconductor ASA

Thingy:91 Board

Sheet 1:
 Sheet 2:
 Sheet 3:
 Sheet 4:
 Sheet 5:
 Sheet 6:

Connections
 nRF9160 MCU
 nRF52840 MCU
 Sensors and LEDs
 Power Supply
 Interface

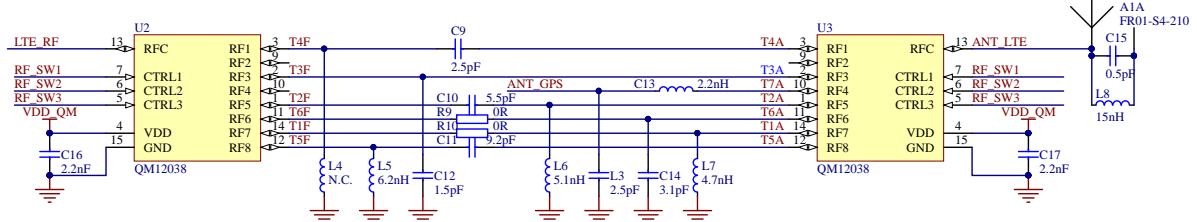


Thingy:91 Connections

Size	Project Number	Revision
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Date: 2020.02.07	Sheet 1 of 6	
File: pca20035_sheet1_connections.SchDoc		Drawn By: RUBR

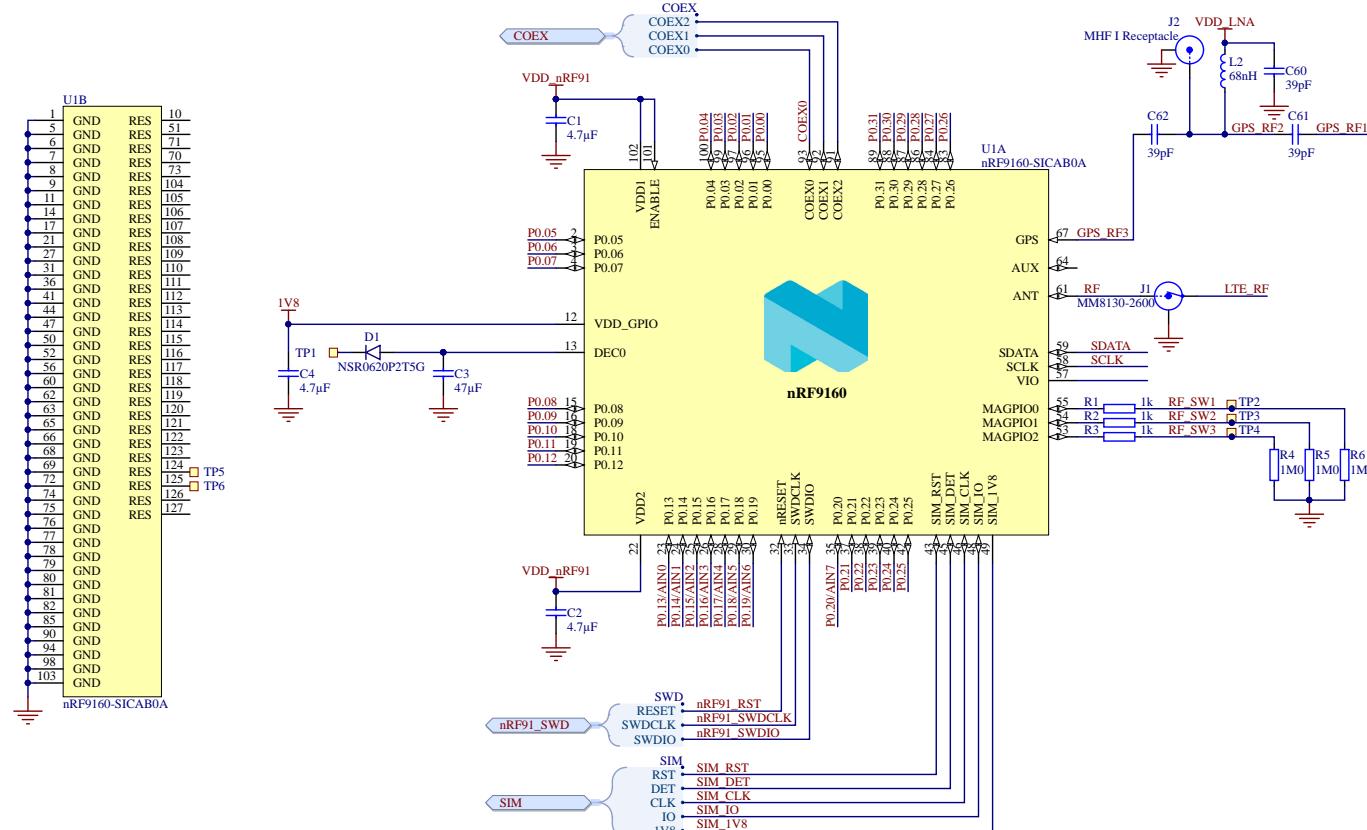


Antenna tuning

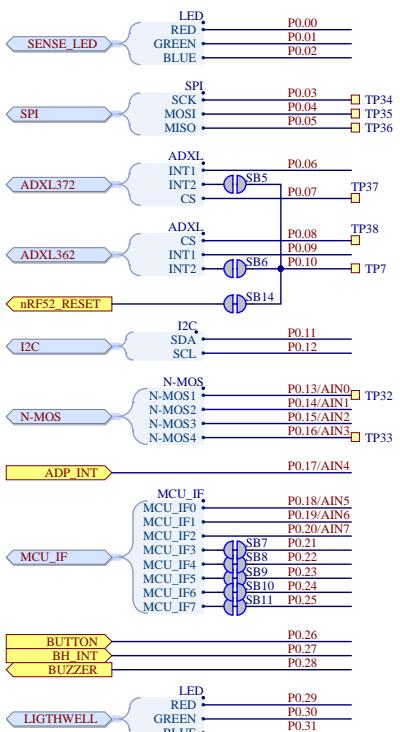


RF SW3	RF SW2	RF SW1	State	Band	Frequency	Components
0	0	0	RF2 - RFC	Not used	Not used	N_A.
0	0	1	RF7 - RFC	13U/D, 2BD	746 MHz - 803 MHz	R10, L7
0	1	0	RF5 - RFC	12U/D, 17U/D, 28U	698 MHz - 748 MHz	C10, L6
				1U/D, 2U/D, 3U/D, 4U/D, 25U/D	1710 MHz - 2200 MHz	
0	1	1	RF3 - RFC	5D, 20U, 26D	824 MHz - 894 MHz	C12
1	0	0	RF1 - RFC	8U/D	880 MHz - 960 MHz	L4, C9
1	0	1	RF2 - RFC	5U, 20D, 26U	791 MHz - 849 MHz	L5, C11
1	1	0	RF6 - RFC	Not used	Not used	R9, C14
1	1	1	RF4 - RFC	GPS	1574 MHz - 1577 MHz	C13, L3

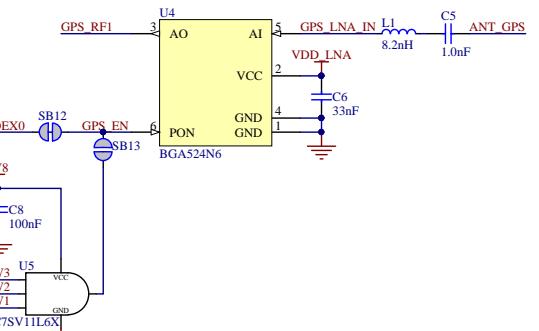
nRF9160



nRF91 GPIO pin mapping



GPS LNA



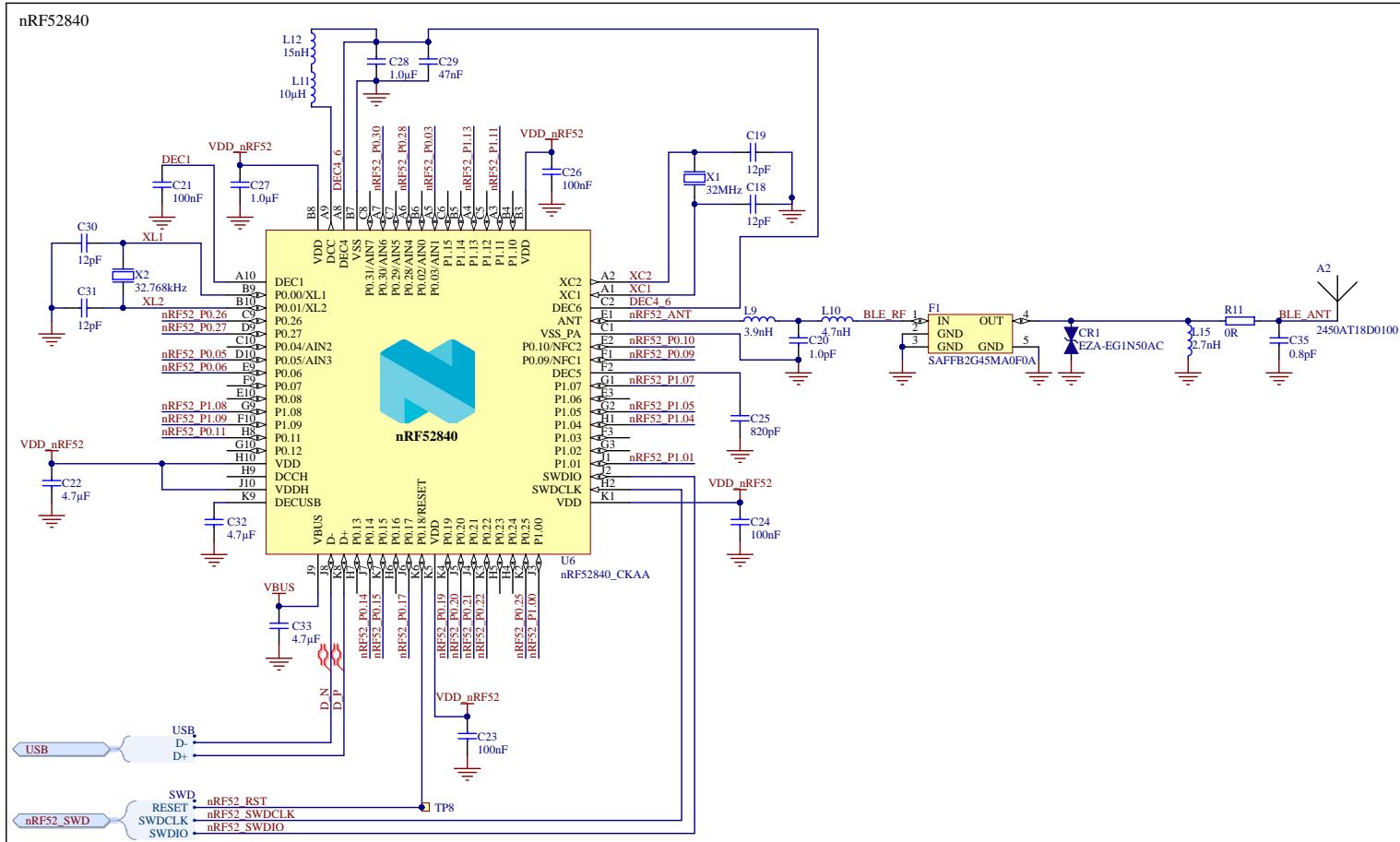
Thingy:91 nRF9160 MCU

 **NORDIC**
 SEMICONDUCTOR

Size A3	Project Number 4457	Revision 1.4.0
Date: 2020.02.07	Sheet 2 of 6	
File: pca20035_sheet2_nrf91_mcu.SchDoc	Drawn By: RUBR	

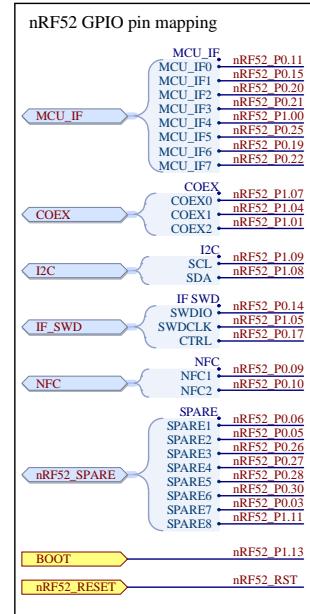
A

A



B

B



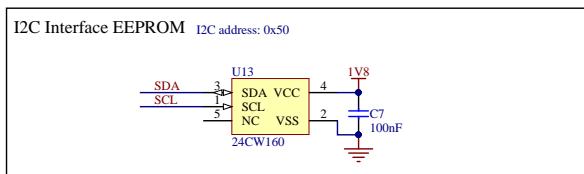
C

C

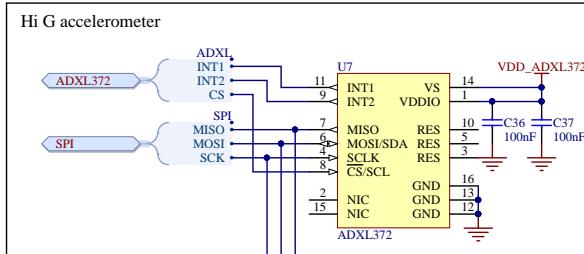
Thingy:91 nRF52840 MCU

Size	Project Number	Revision
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Date: 2020.02.07	Sheet 3 of 6	
File: pca20035_sheet3_nrf52_mcu.SchDoc	Drawn By: RUBR	

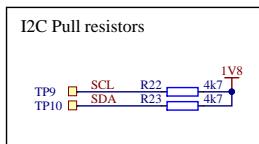
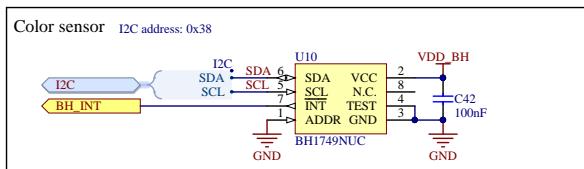
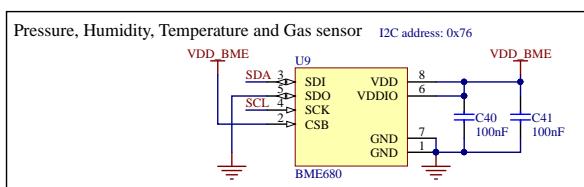
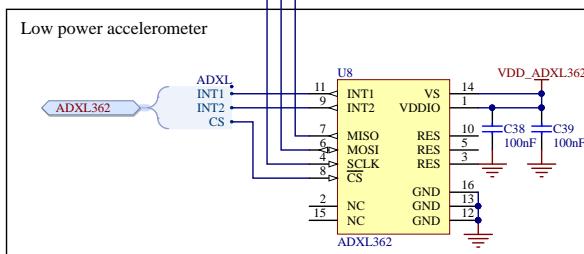
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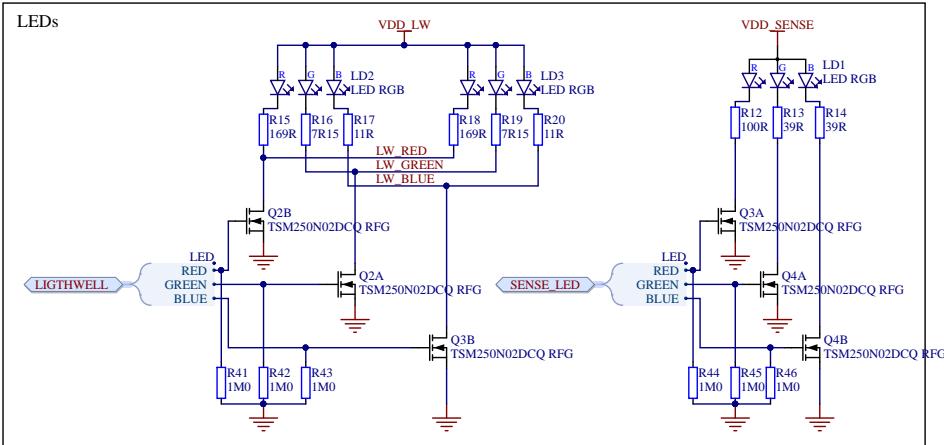
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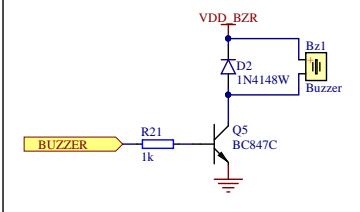
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LEDs



Buzzer

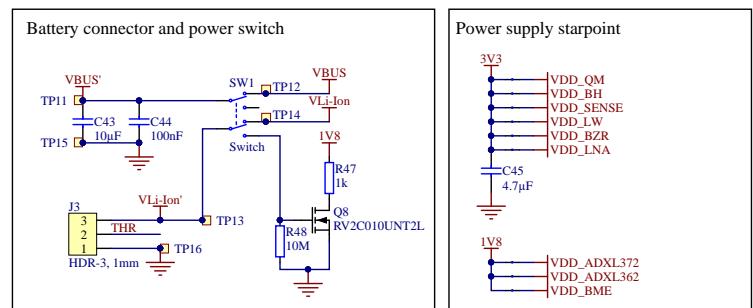


Thingy:91 Sensors and LEDs

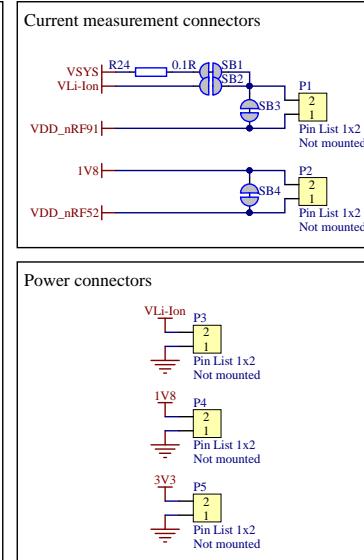
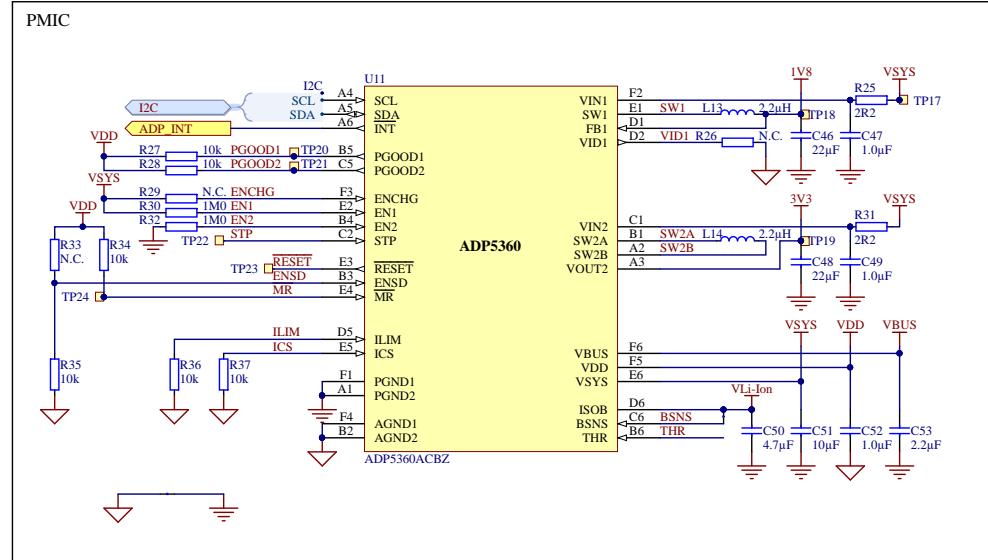
Size	Project Number	Revision
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Date: 2020.02.07	Sheet 4 of 6	
File: pca20035_sheet4_sensors_and_leds.SchDoc	Drawn By: RUBR	

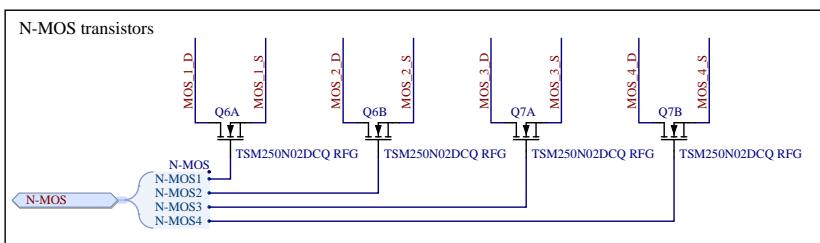
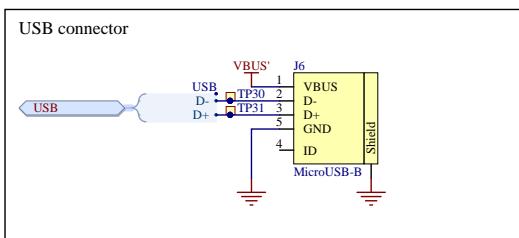
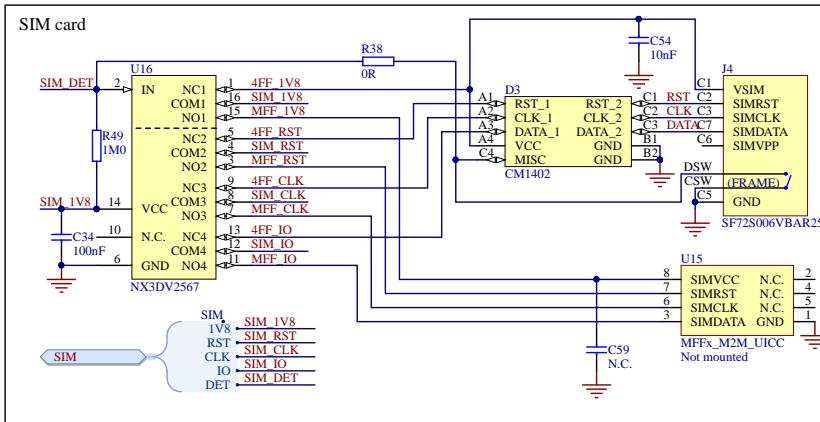
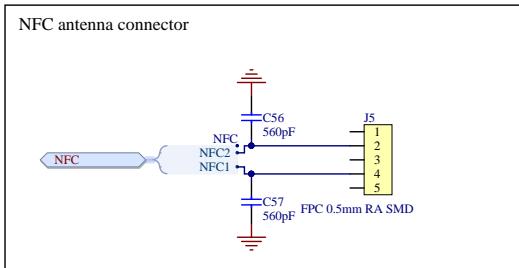
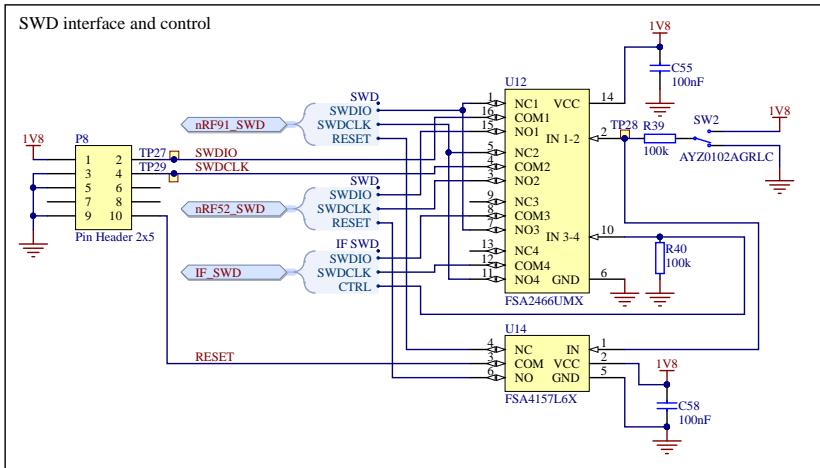
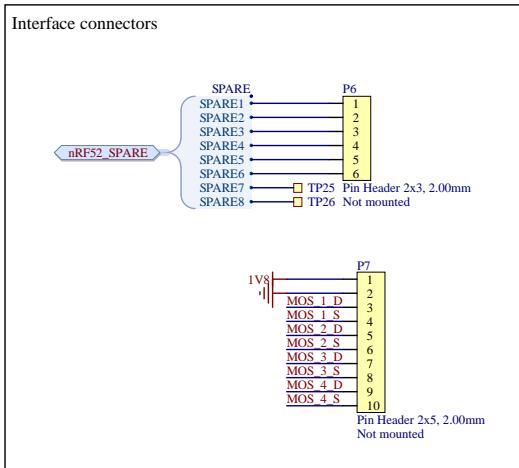


A



B





Thingy:91 Interface

Size	Project Number	Revision
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3mm,N,P		Date: 2020.02.07
3mm,N,P		Sheet 6 of 6
3mm,N,P		File: pca20035_sheet6_interface.SchDoc

