


Nordic Semiconductor ASA

nRF52840 Bluetooth Smart/ANT/802.15.4/2.4GHz RF Development Board W/FEM (PCA100XX)

Sheet 1:	Cover
Sheet 2:	nRF Radio
Sheet 3:	Pin Map
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Sheet 8:	FEM

× The No ERC object is a design directive.
This directive is placed on a node in the circuit to suppress harmless warnings and/or error violation conditions that are detected when the schematic project is compiled.

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PCA20035 - Cover				
Size	Project Number		Revision	
A3	4412		0.7.0	
Date:	18.12.2017		Sheet 1 of 8	
File:	pca10084_sheet1_cover.SchDoc		Drawn By:	GETR

A

B

C

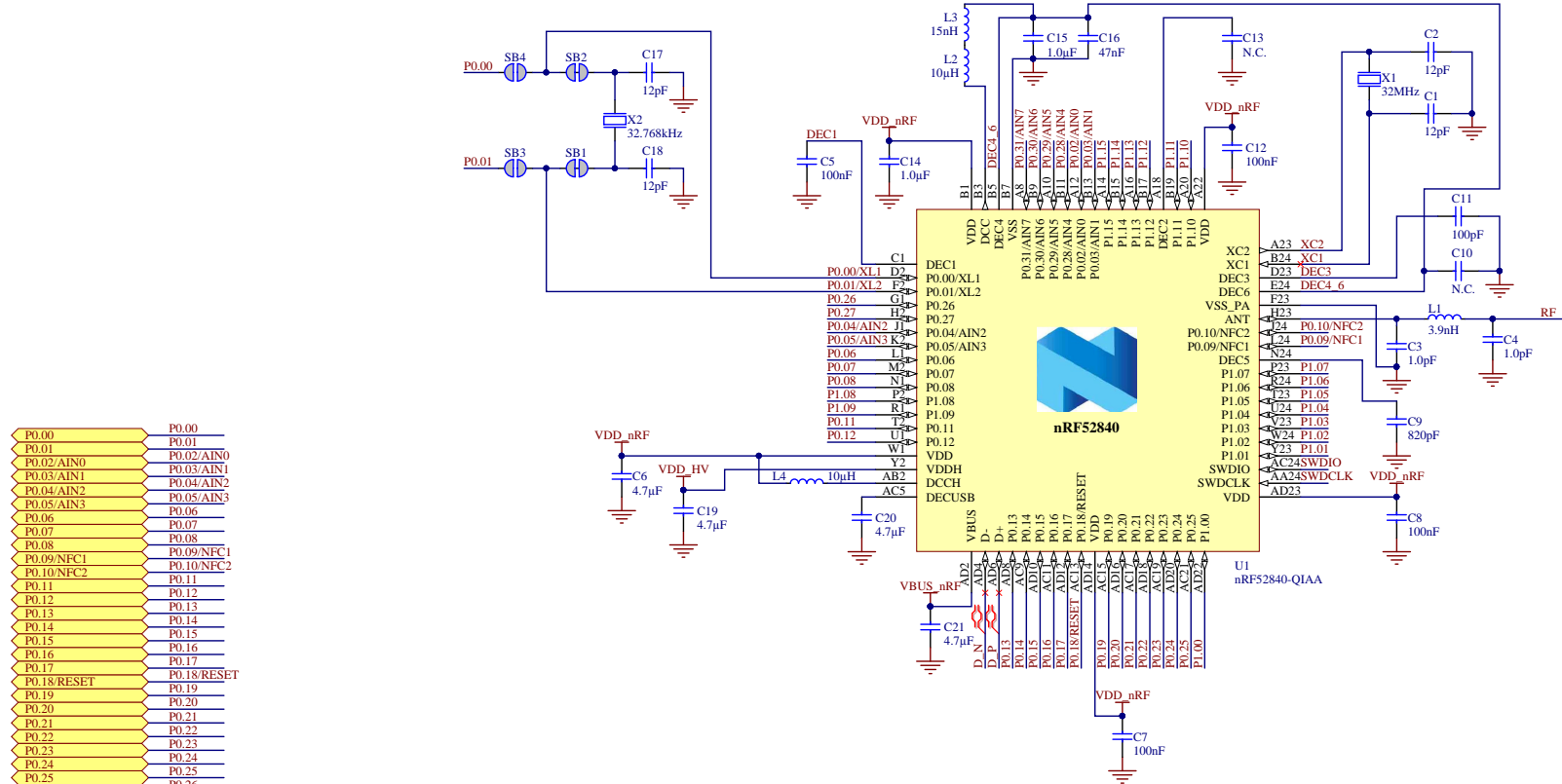
D

A

B

C

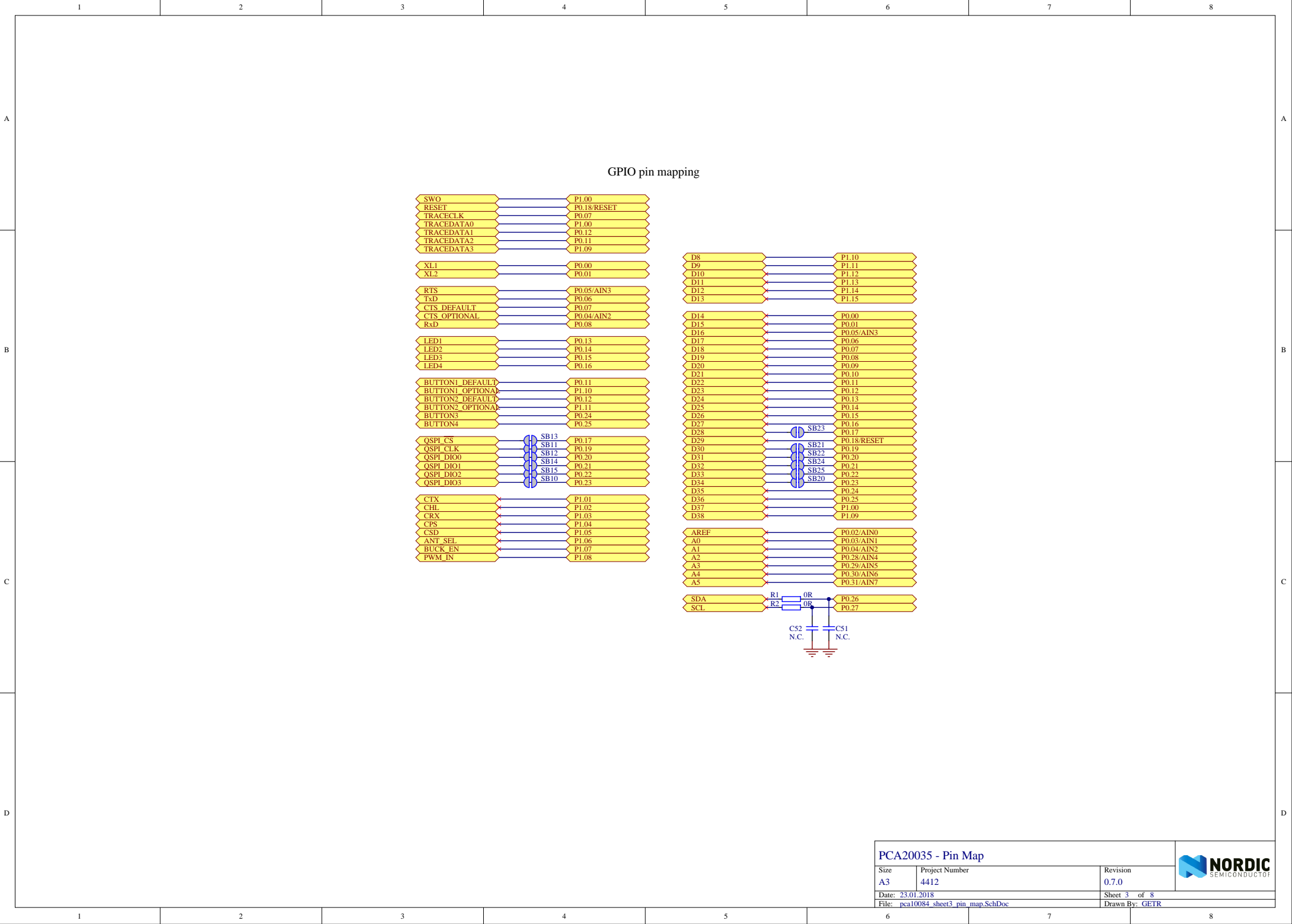
D



PCA20035 - nRF52840 MCU

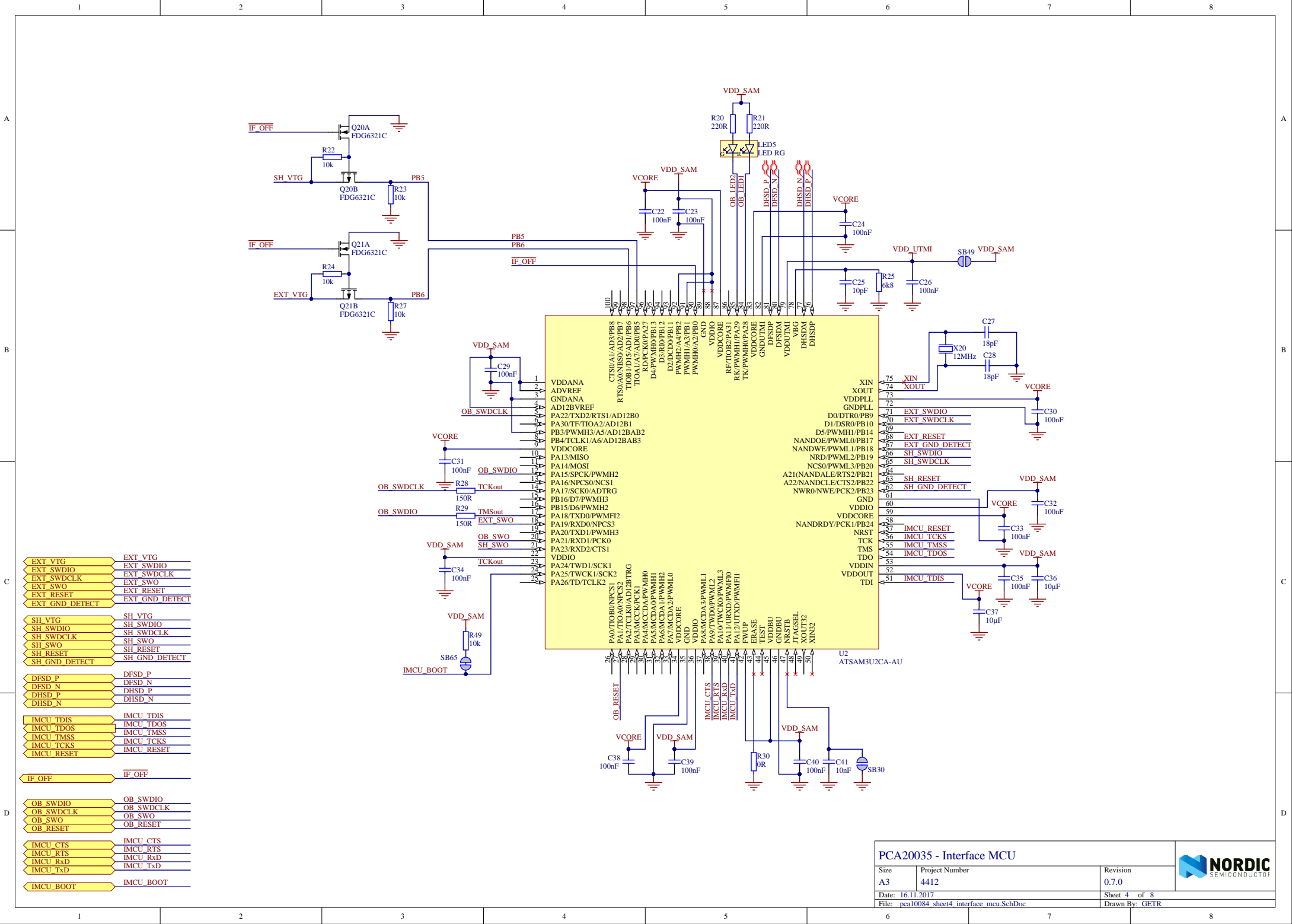
Size	Project Number	Revision
A3	4412	0.7.0
Date: 16.11.2017		Sheet 2 of 8
File: pca10084_sheet2_nrf52840_mcu.SchDoe		Drawn By: GETR



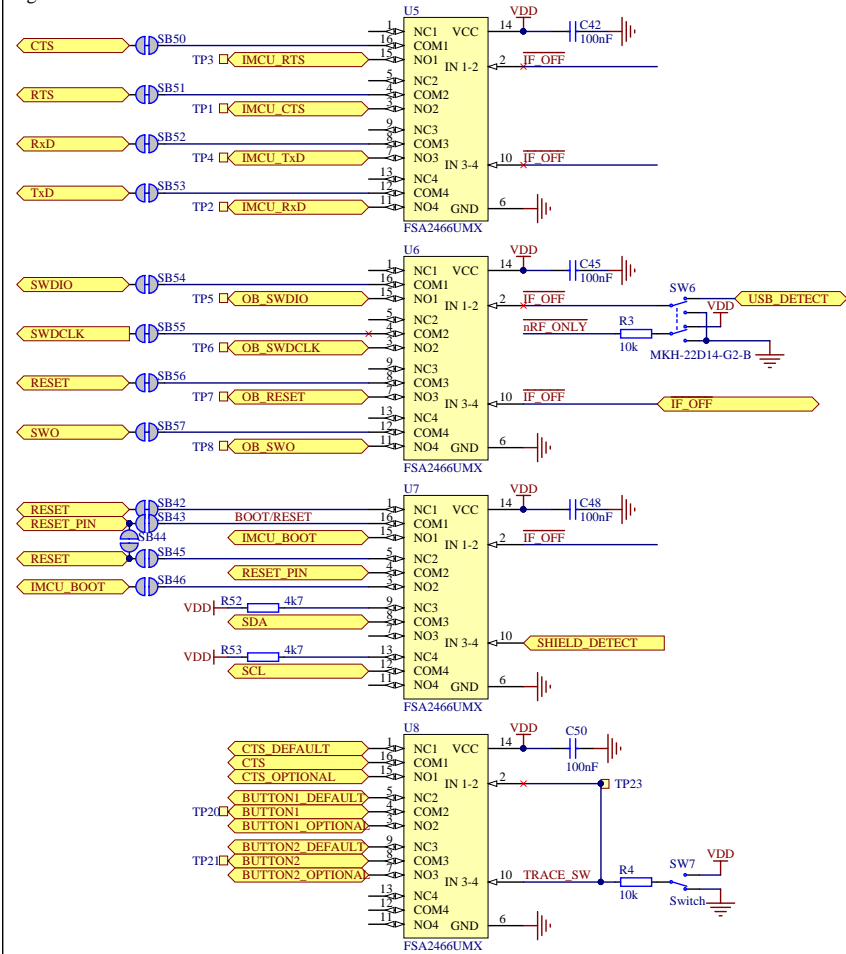


PCA20035 - Pin Map

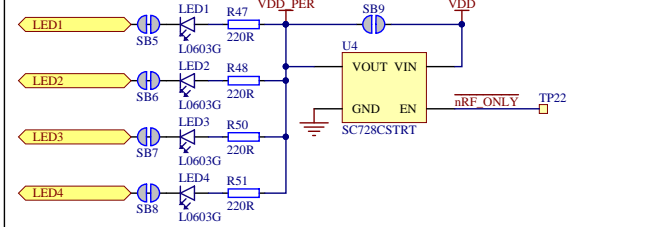
Size	Project Number	Revision	
A3	4412	0.7.0	
Date: 23.01.2018		Sheet 3 of 8	
File: pca10084_sheet3_pin_map.SchDoc		Drawn By: GETR	



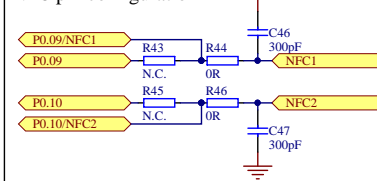
Signal switches



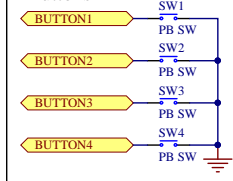
LEDs



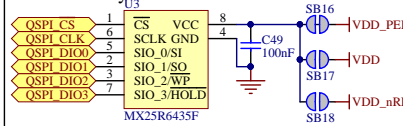
NFC pin configuration



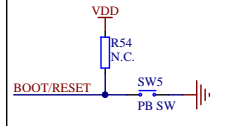
Buttons



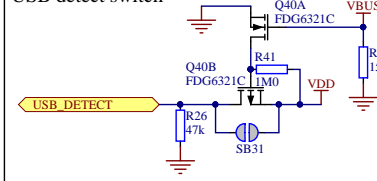
Flash memory



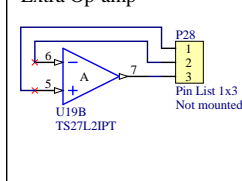
Boot/Reset button



USB detect switch



Extra Op-amp



PCA20035 - Miscellaneous

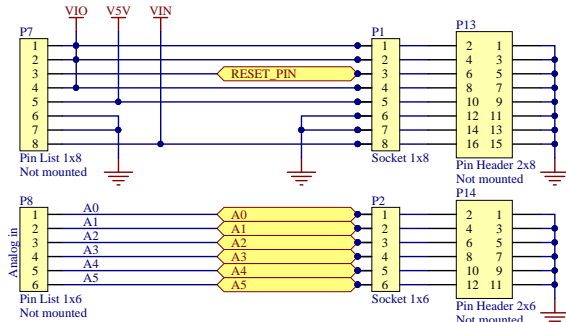
Size	Project Number	Revision
A3	4412	0.7.0
Date: 22.11.2017	Sheet 5 of 8	
File: pca10084_sheet5_misc.SchDoc	Drawn By: GETR	



Arduino Interface Connectors

Bottom Connectors

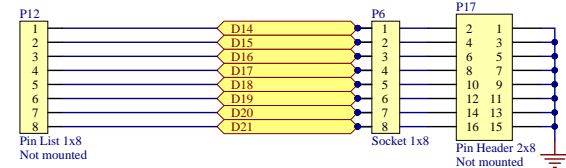
Top connectors



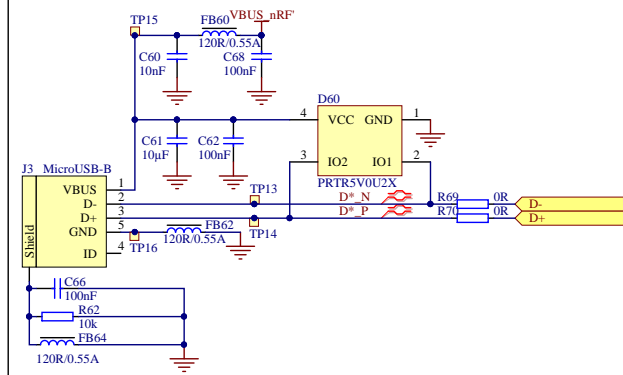
Auxiliary Connectors

Bottom Connectors

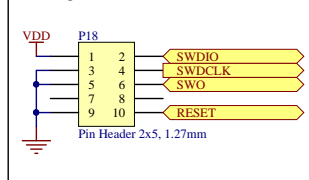
Top connectors



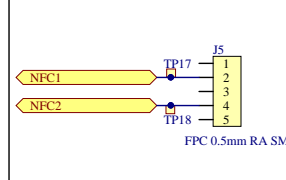
nRF USB Connector



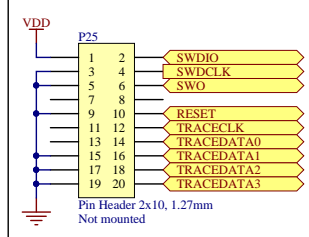
Debug IN Connector



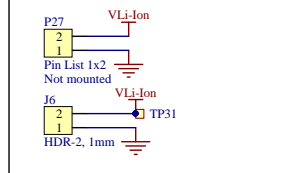
NFCT Antenna Connector



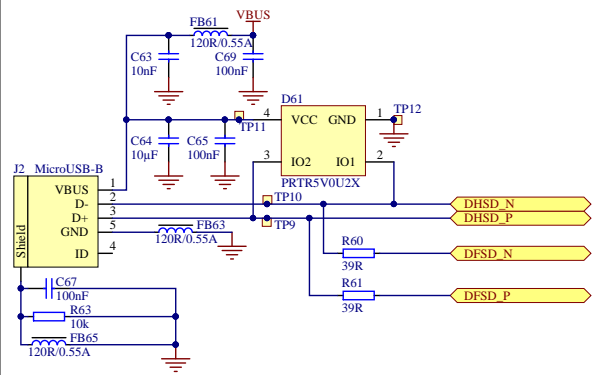
Trace connector



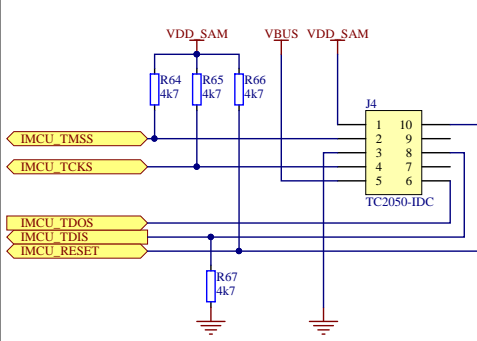
Li-ion connector



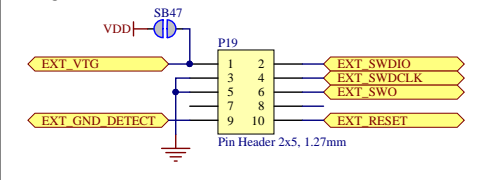
Interface MCU USB Connector



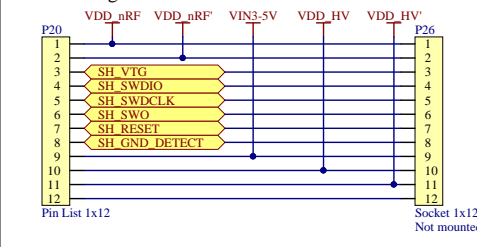
Interface MCU Programming Connector



Debug OUT Connector



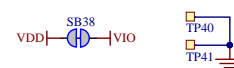
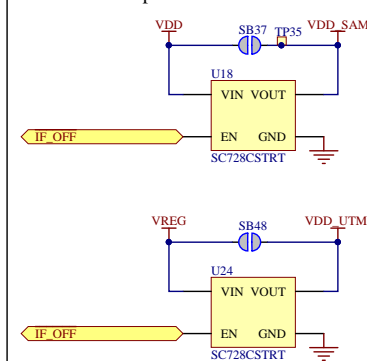
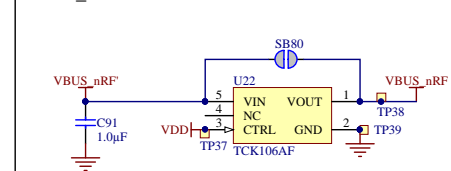
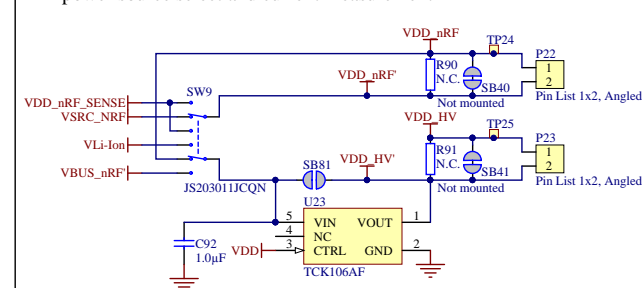
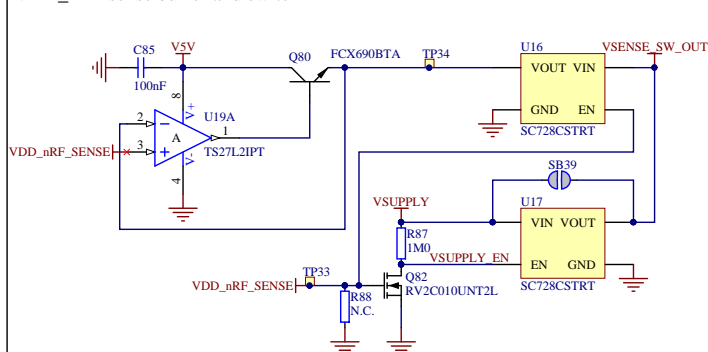
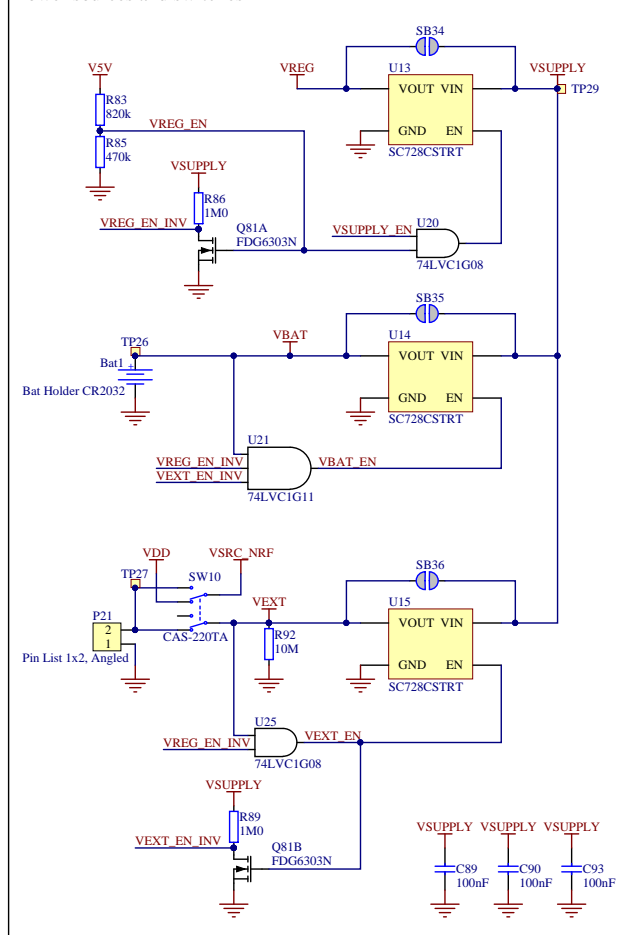
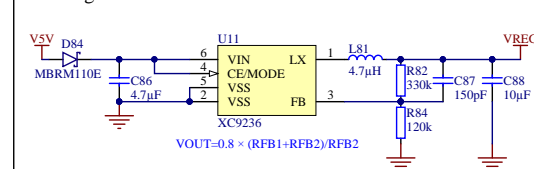
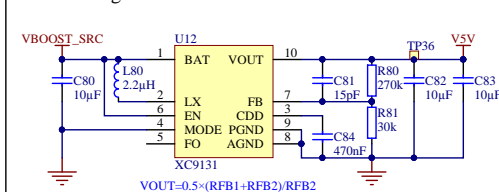
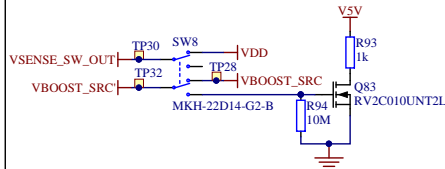
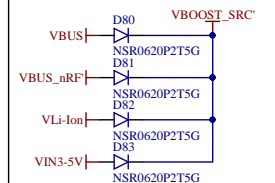
Shield Debug and Current measurement Connector



PCA20035 - Connectors

Size	Project Number	Revision
A3	4412	0.7.0
Date: 23.01.2018	Sheet 6 of 8	Drawn By: GETR
File: pca10084_sheet6_connectors.SchDoc		

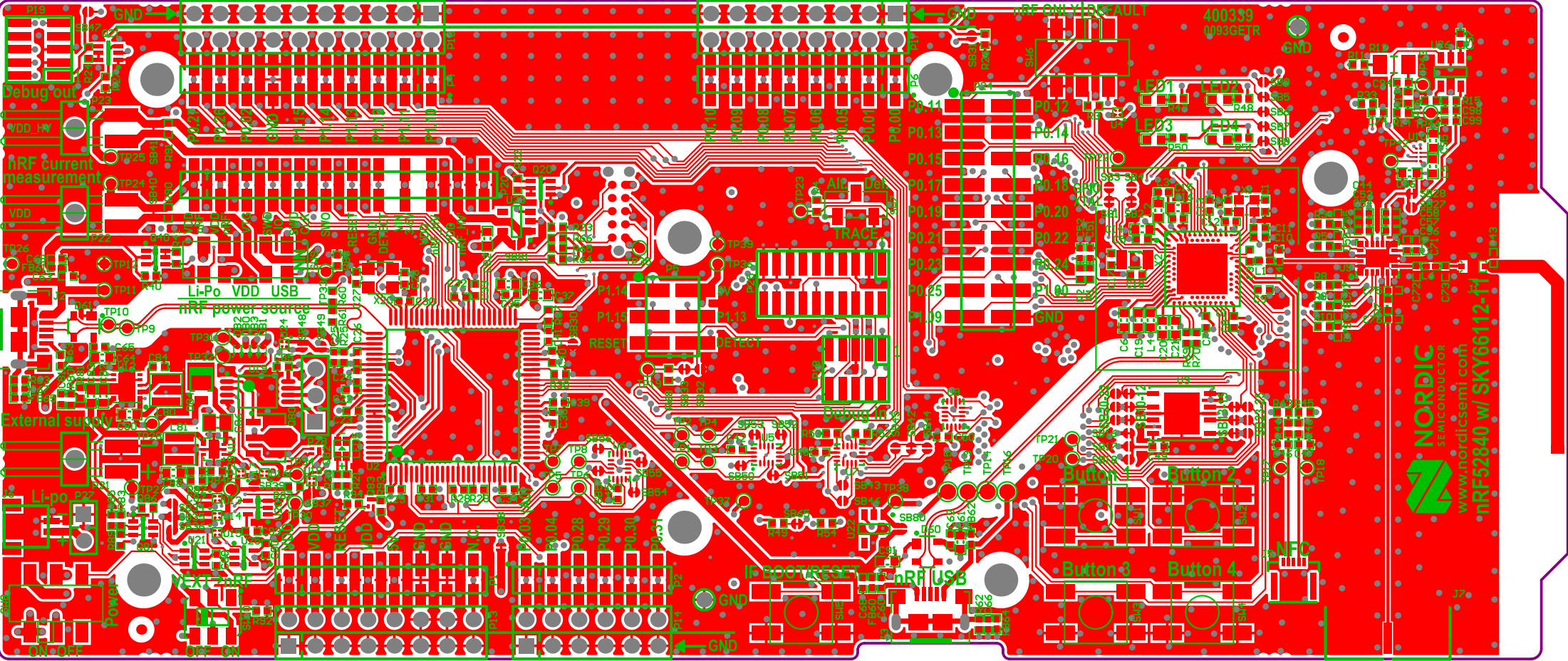




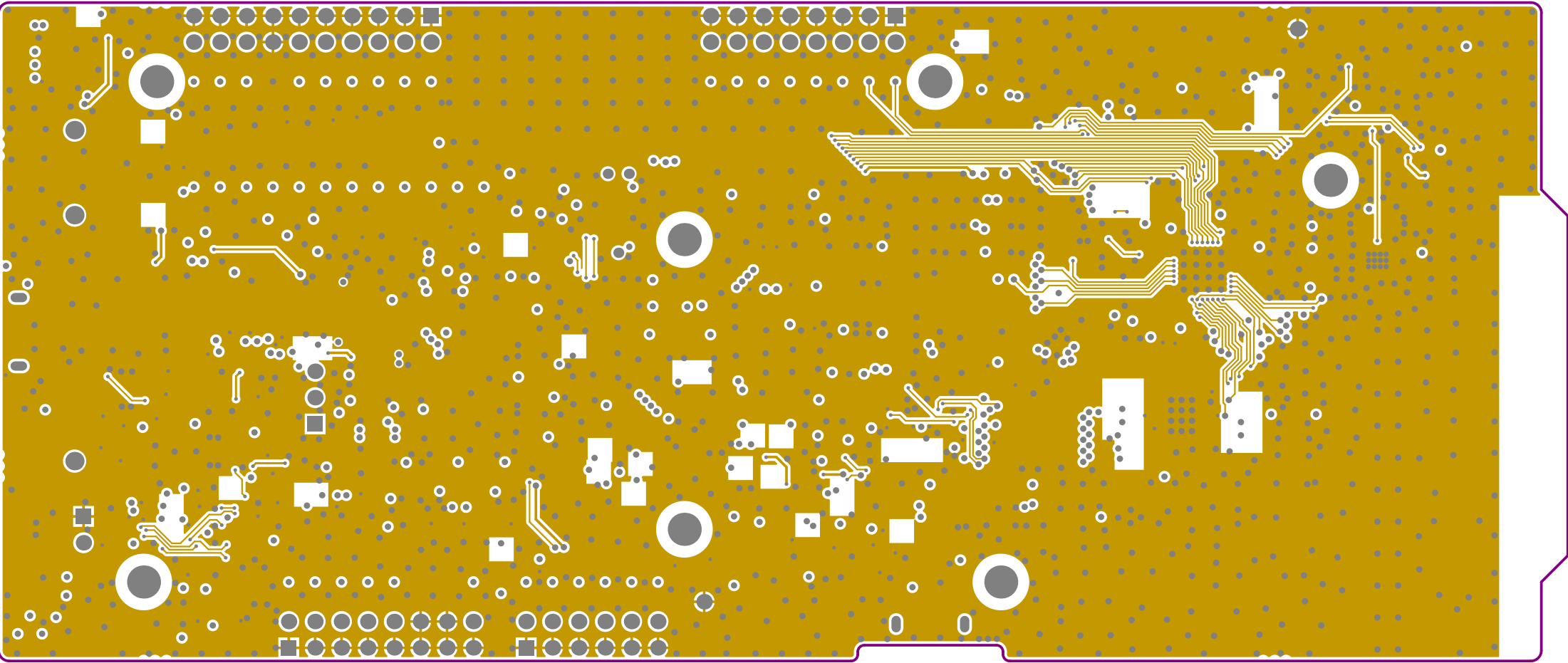
Size A3	Project Number 4412	Revision 0.7.0
Date: 22.11.2017		Sheet 7 of 8
File: pcaI0084_sheet7_power_supply.SchDoc		Drawn By: GETR

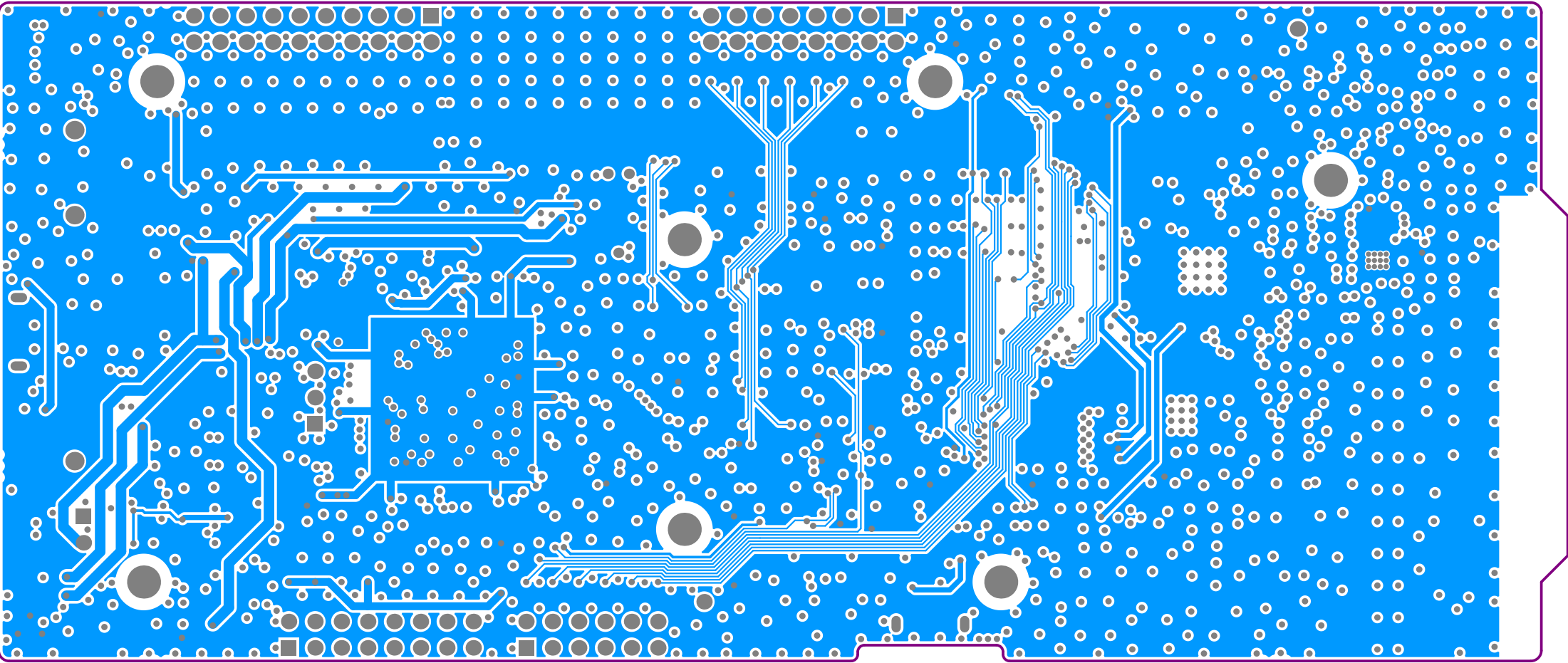


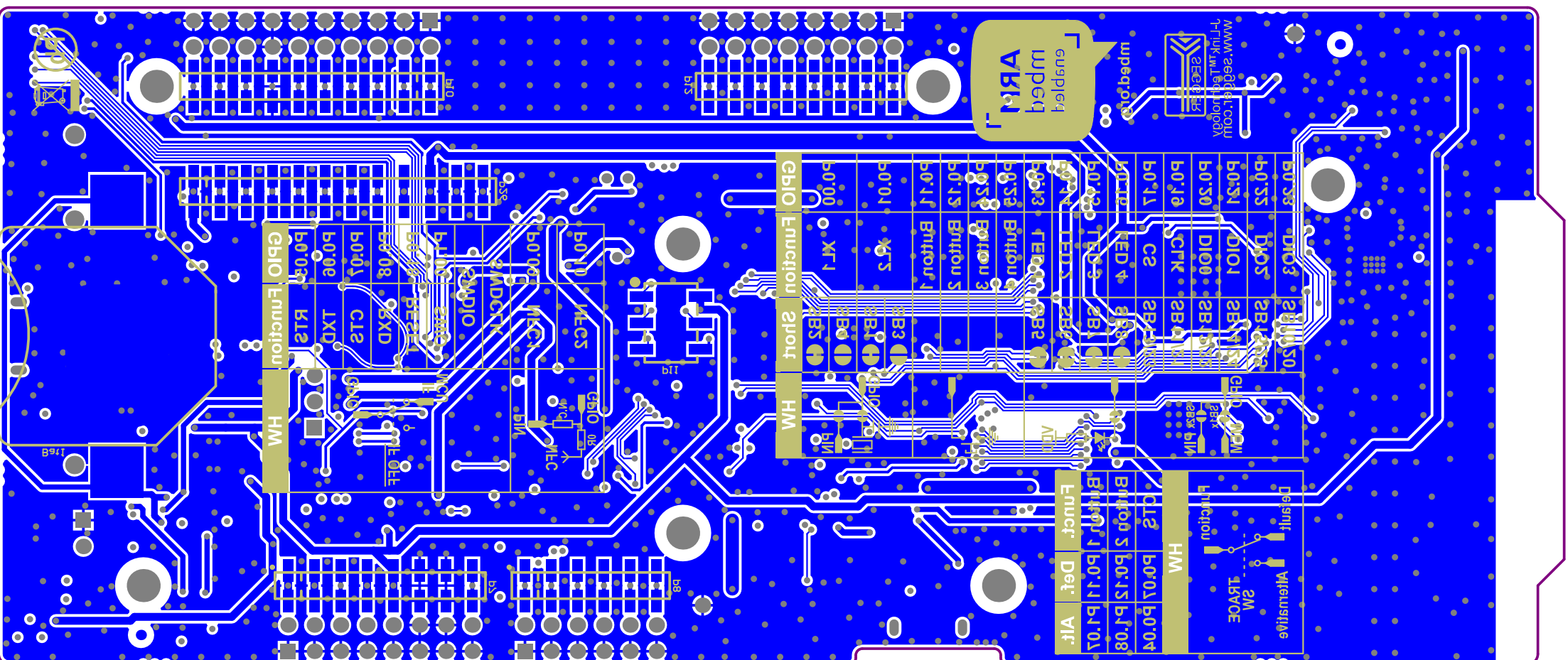


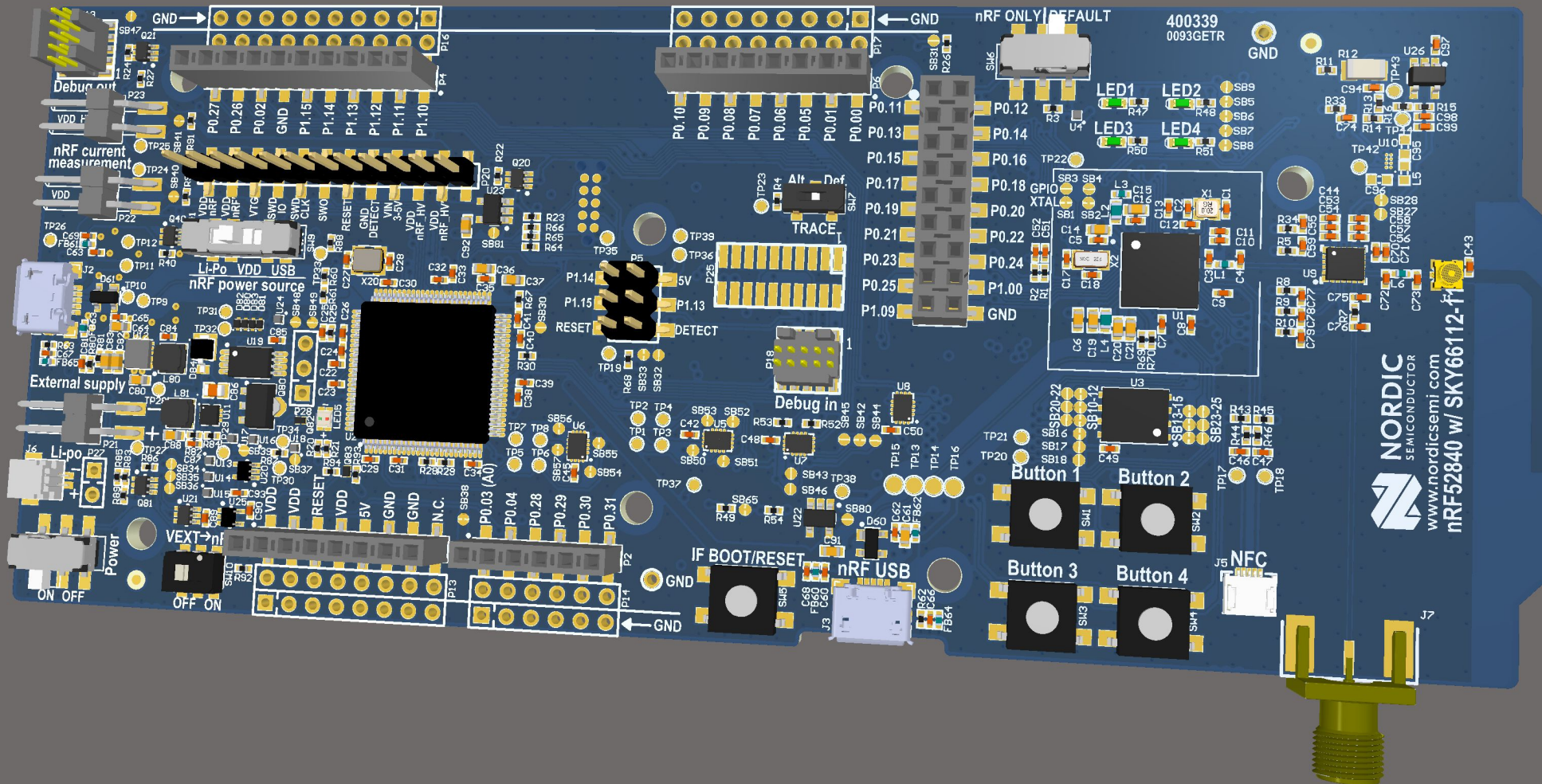


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www.nordicsemi.com
nRF52840 w/ SKY68112-11









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nRF52840 w/ SKY66112-1

400339
0093GETR

nRF ONLY/DEFAULT

Button 1
Button 2
Button 3
Button 4

NFC

nRF USB

IF BOOT/RESET

VEXT→nF

External supply

Li-Po VDD USB
nRF power source

nRF current
measurement

Debug out