


Nordic Semiconductor ASA

nRF5340 Bluetooth Low Energy/ANT/802.15.4/2.4GHz RF Development Board (PCA10095)

Sheet 1:	Cover
Sheet 2:	nRF Radio
Sheet 3:	Interface MCU
Sheet 4:	Miscellaneous
Sheet 5:	Connectors
Sheet 6:	Power Supply

✖ 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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PCA10095 - Cover			
Size A3	Project Number 4465	Revision 1.0.0	
Date: 2020-05-12		Sheet 1 of 6	
File: pca10095_sheet1_cover.SchDoc		Drawn By: GETR	

A

B

C

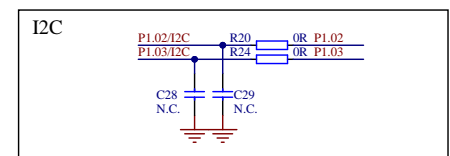
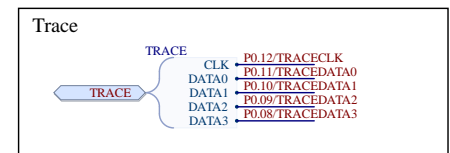
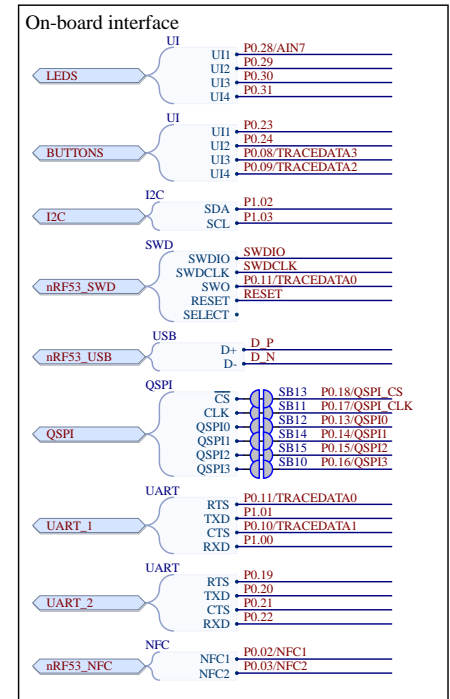
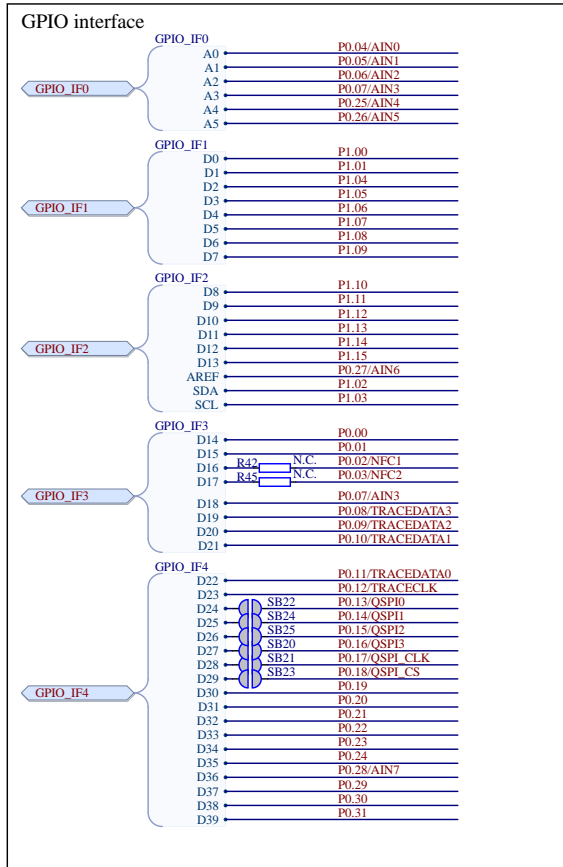
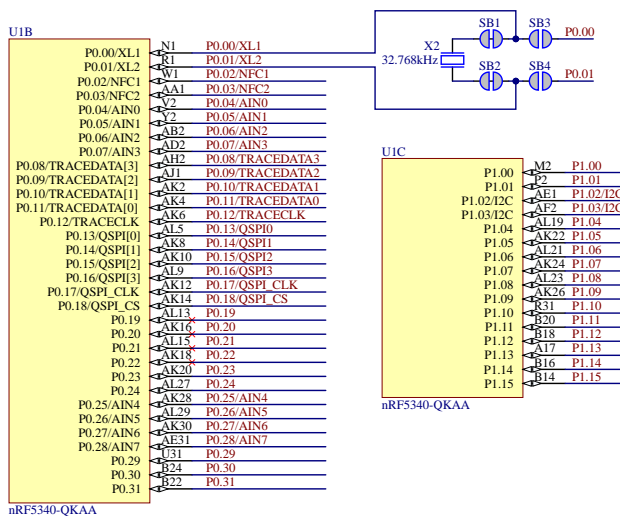
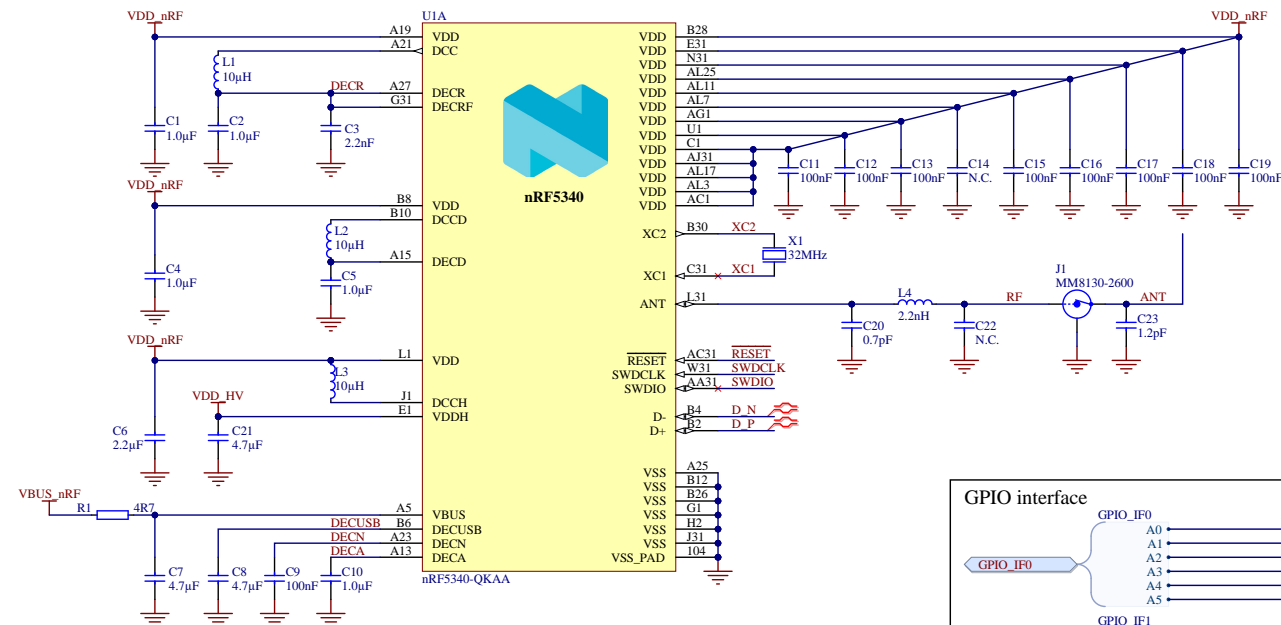
D

A


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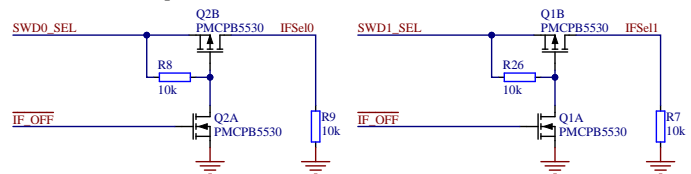
D



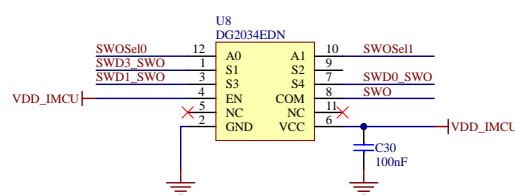
PCA10095 - nRF5340 MCU

Size	Project Number	Revision	
A3	4465	1.0.0	
Date: 2020-12-02		Sheet 2 of 6	
File: pca10095_sheet2_nrf5340_mcu.SchDoc		Drawn By: GETR	

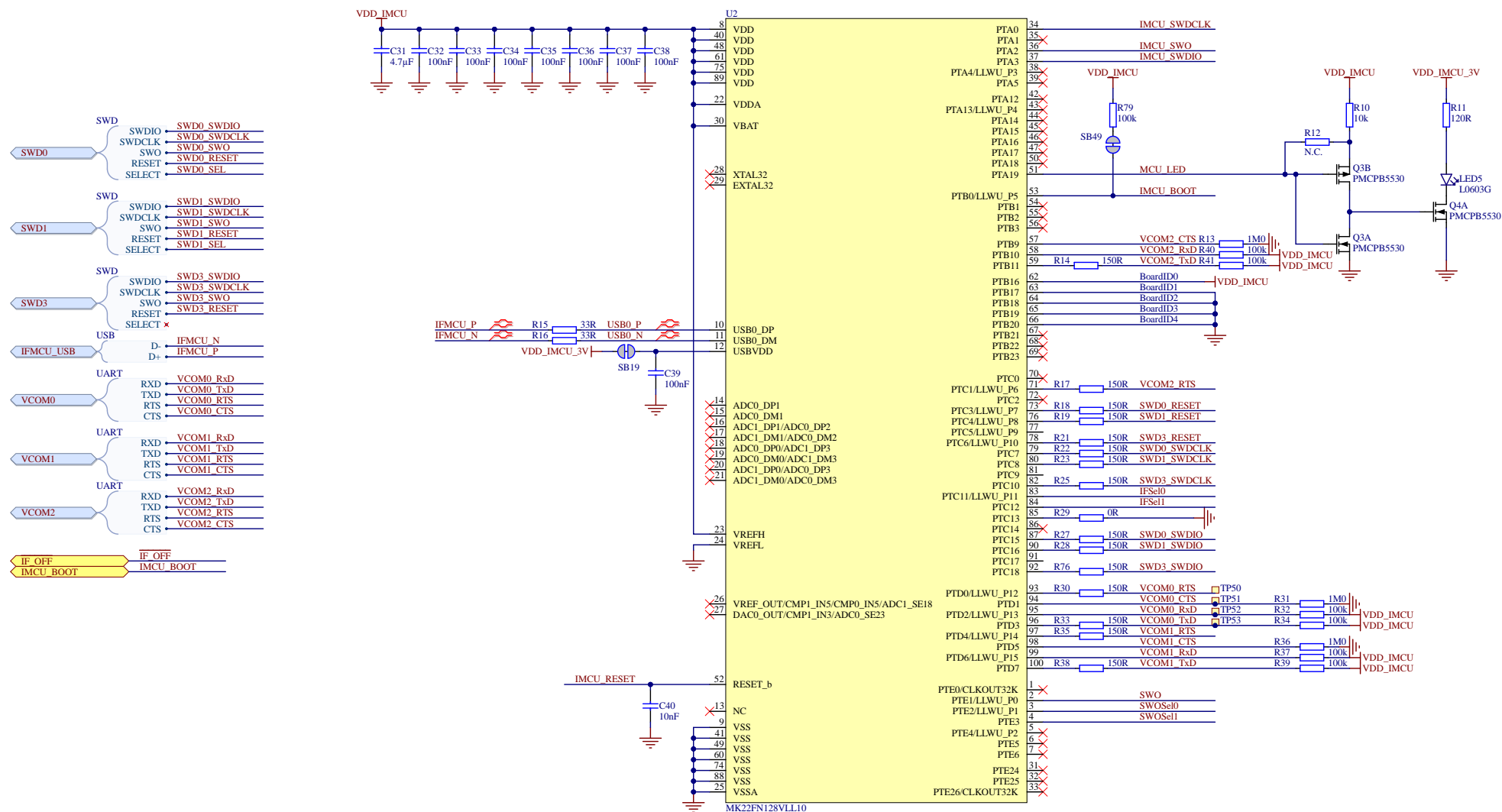
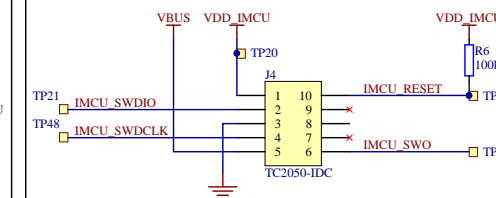
IF SEL reverse drive protection



MUX



Interface MCU Programming Connector

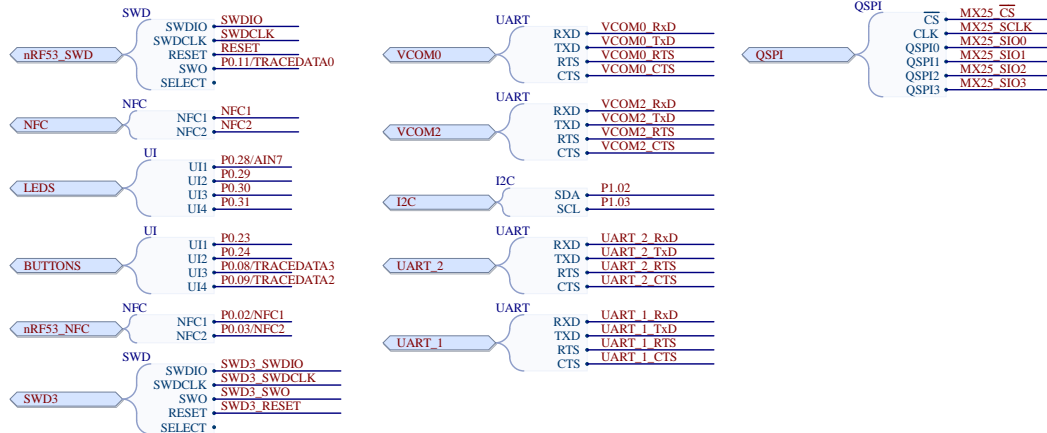
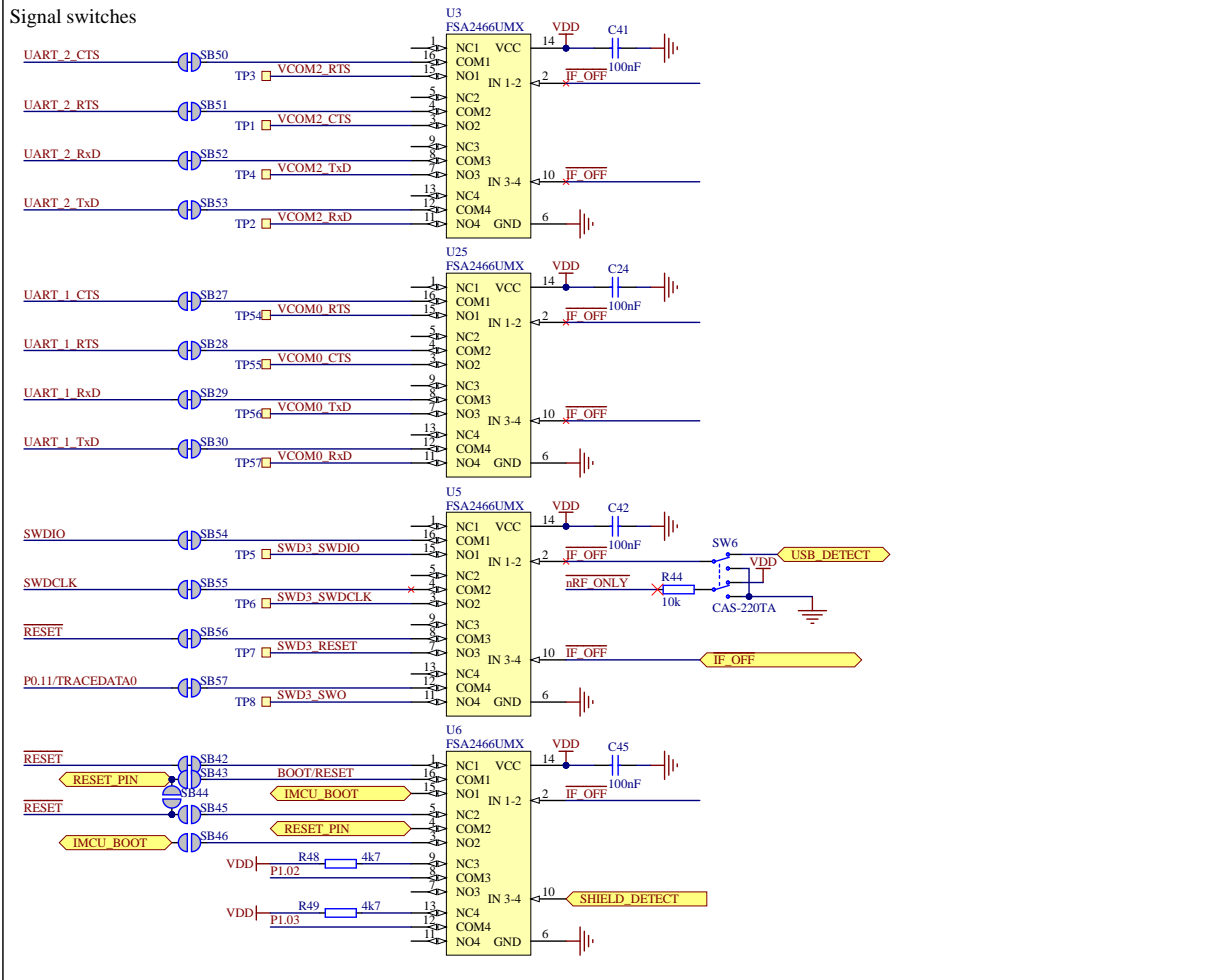


PCA10095 - Interface MCU

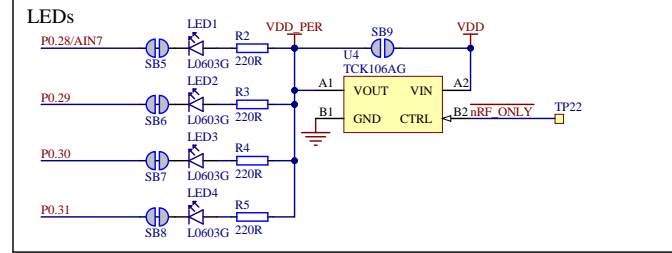
Size A3	Project Number 4465	Revision 1.0.0
Date: 2020-12-02		Sheet 3 of 6
File: pca10095_sheet3_interface_mcu.SchDoc		Drawn By: GETR



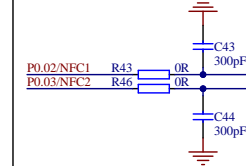
Signal switches



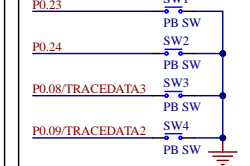
LEDs



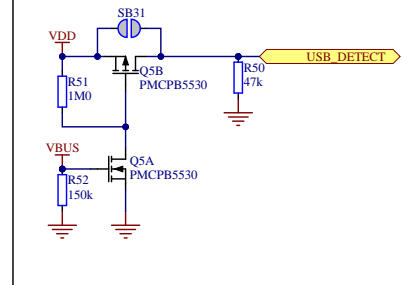
NFC pin configuration



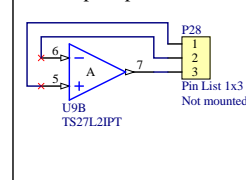
Buttons



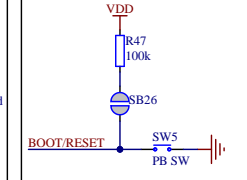
USB detect switch



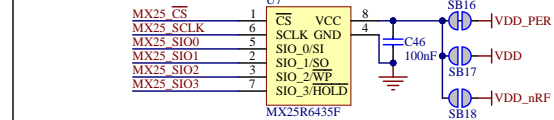
Extra Op-amp



Boot/Reset button



Flash memory



PCA10095 - Miscellaneous

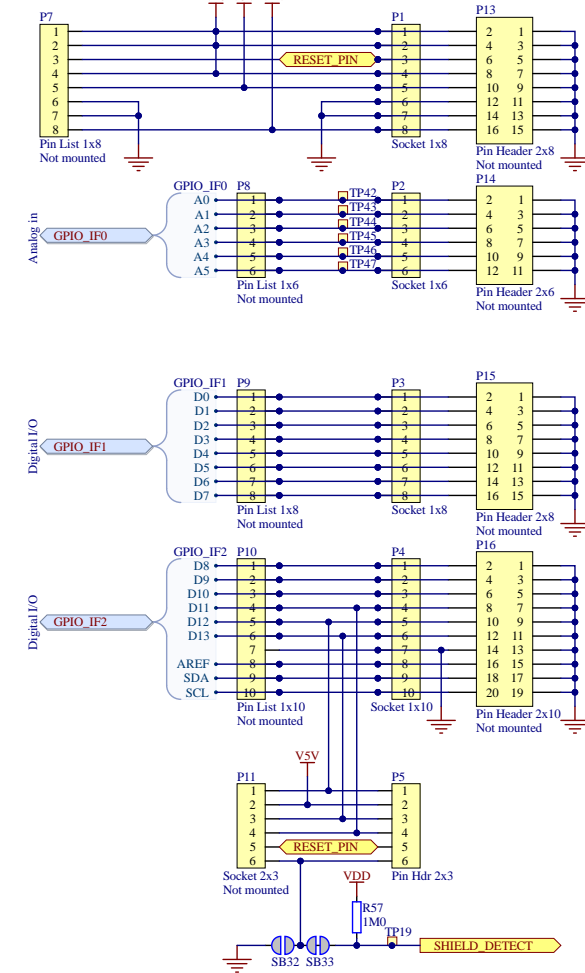
Size	Project Number	Revision
A3	4465	1.0.0
Date: 2020-12-02	Sheet 4 of 6	
File: pca10095_sheet4_misc.SchDoc	Drawn By: GETR	



Arduino Interface Connectors

Bottom Connectors

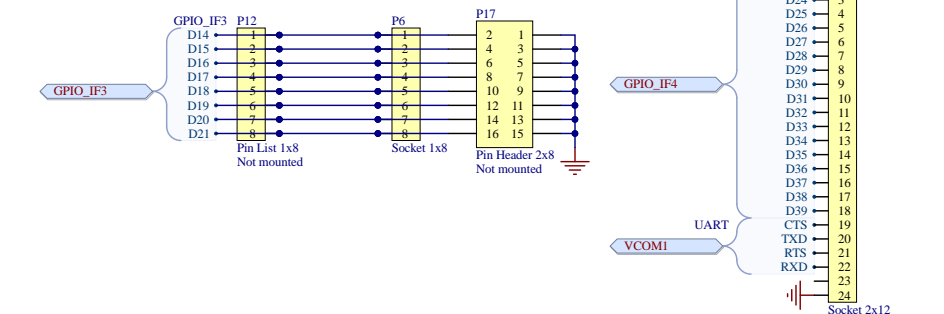
Top connectors



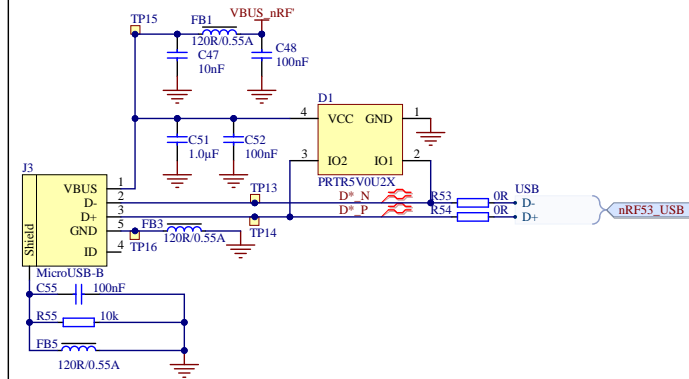
Auxiliary Connectors

Bottom Connectors

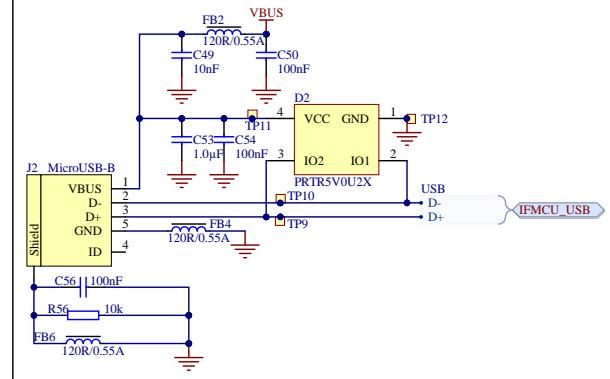
Top connectors



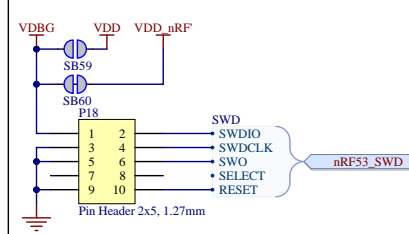
nRF USB Connector



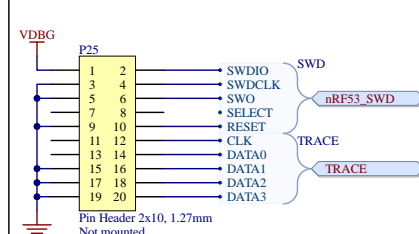
Interface MCU USB Connector



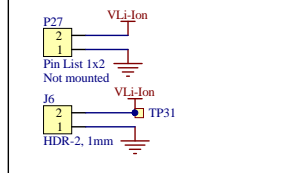
Debug IN Connector



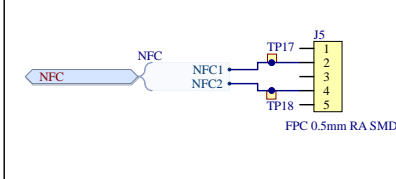
Trace connector



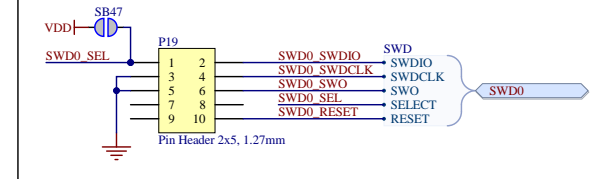
Li-ion connector



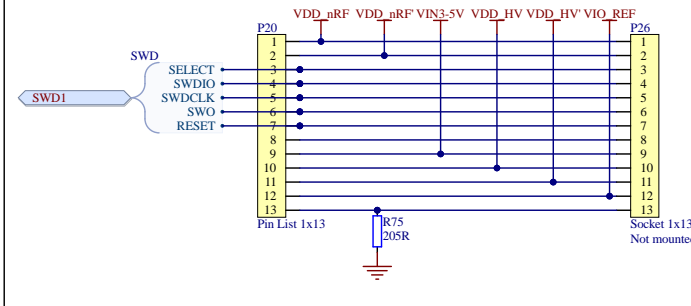
NFC Antenna Connector



Debug OUT Connector



Shield Debug and Current measurement Connector



PCA10095 - Connectors

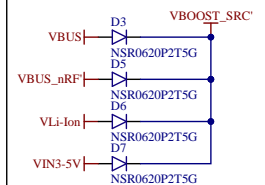
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Date: 2020-12-02	Sheet 5 of 6	Drawn By: GETR
File: pca10095_sheet5_connectors.SchDoc		



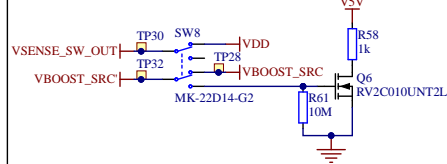
A

A

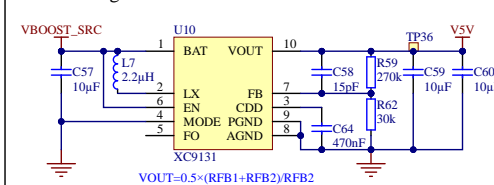
Power input, reverse protection



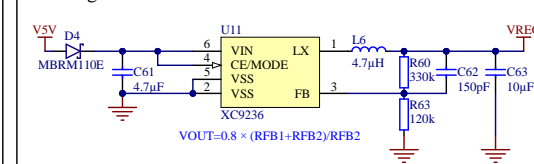
Power switch



5V Boost regulator



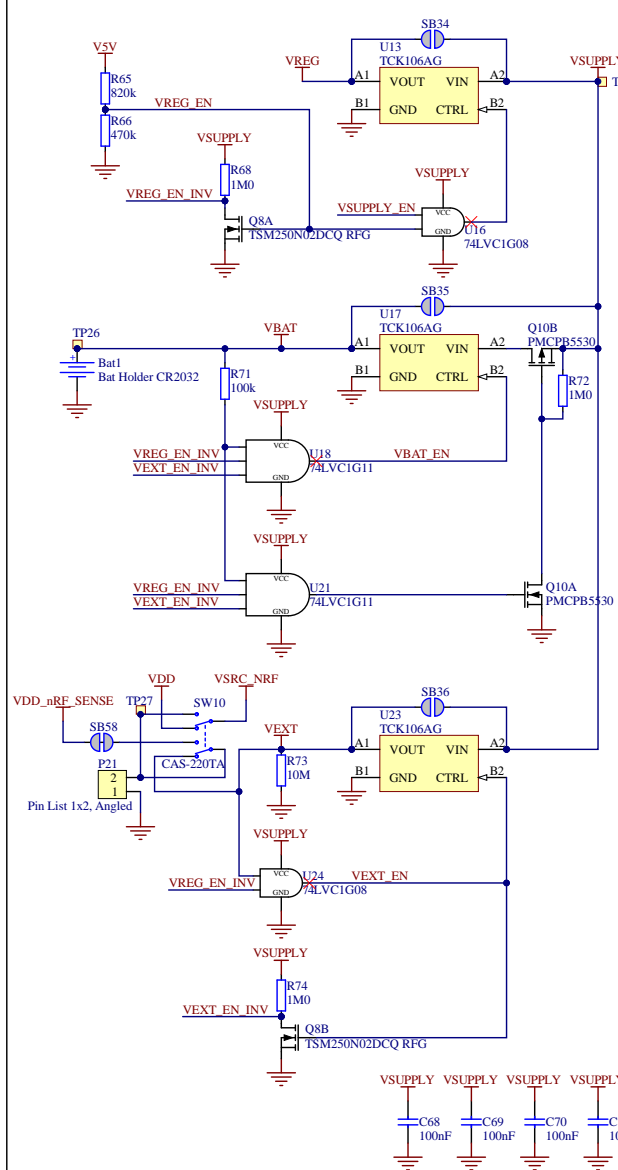
Buck regulator for VDD



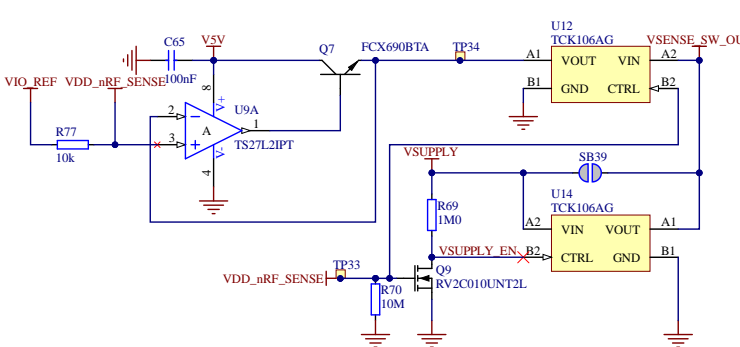
B

B

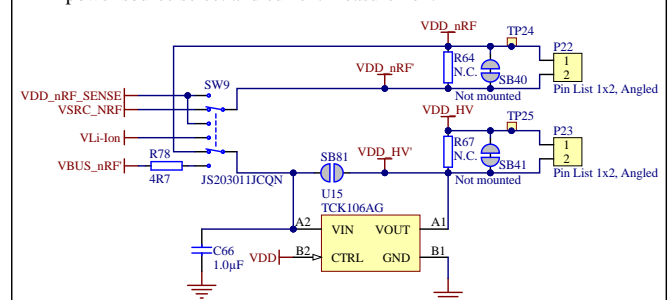
Power sources and switches



VDD_nRF sense buffer and switch



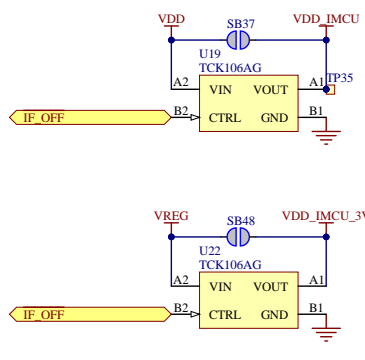
nRF power source select and current measurement



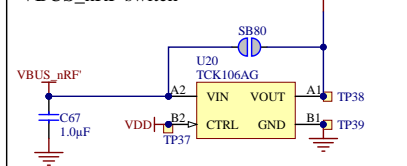
C

C

Interface MCU power switch



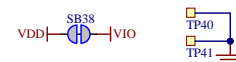
VBUS_nRF switch



D

D

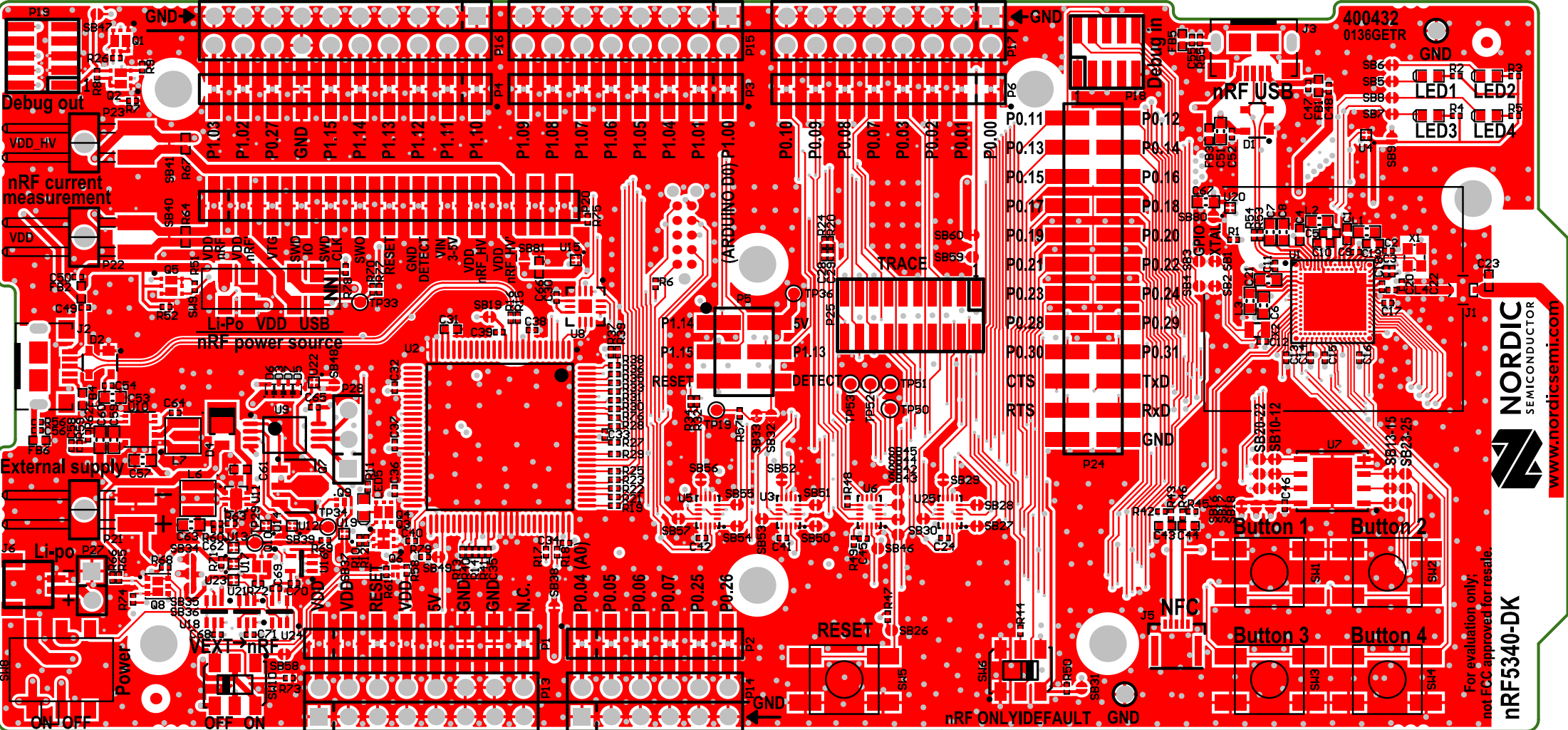
Instrument ground



PCA10095 - Power Supply

Size	Project Number	Revision
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Date:	2020-12-02	Sheet 6 of 6
File:	pca10095_sheet6_power_supply.SchDoc	Drawn By: GETR

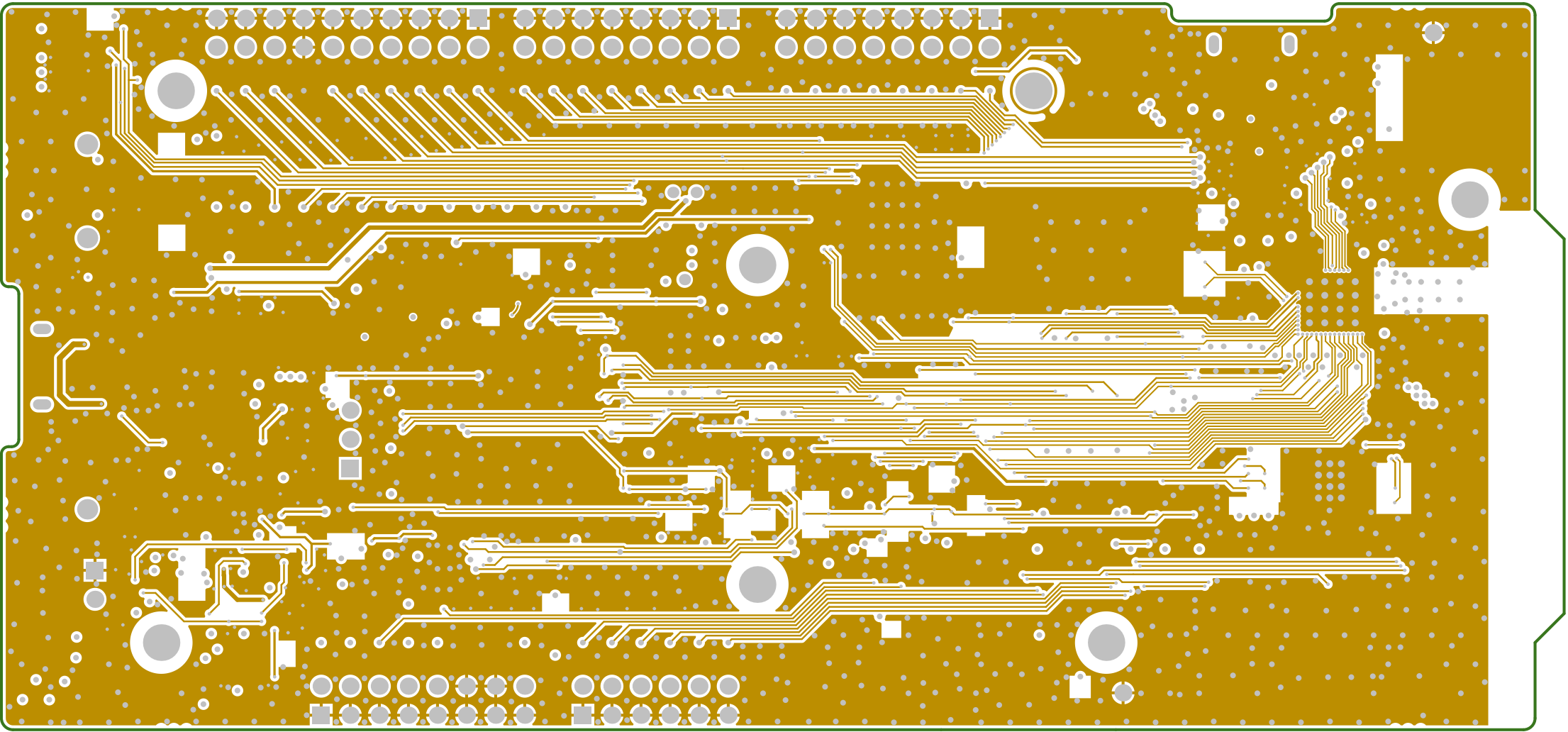


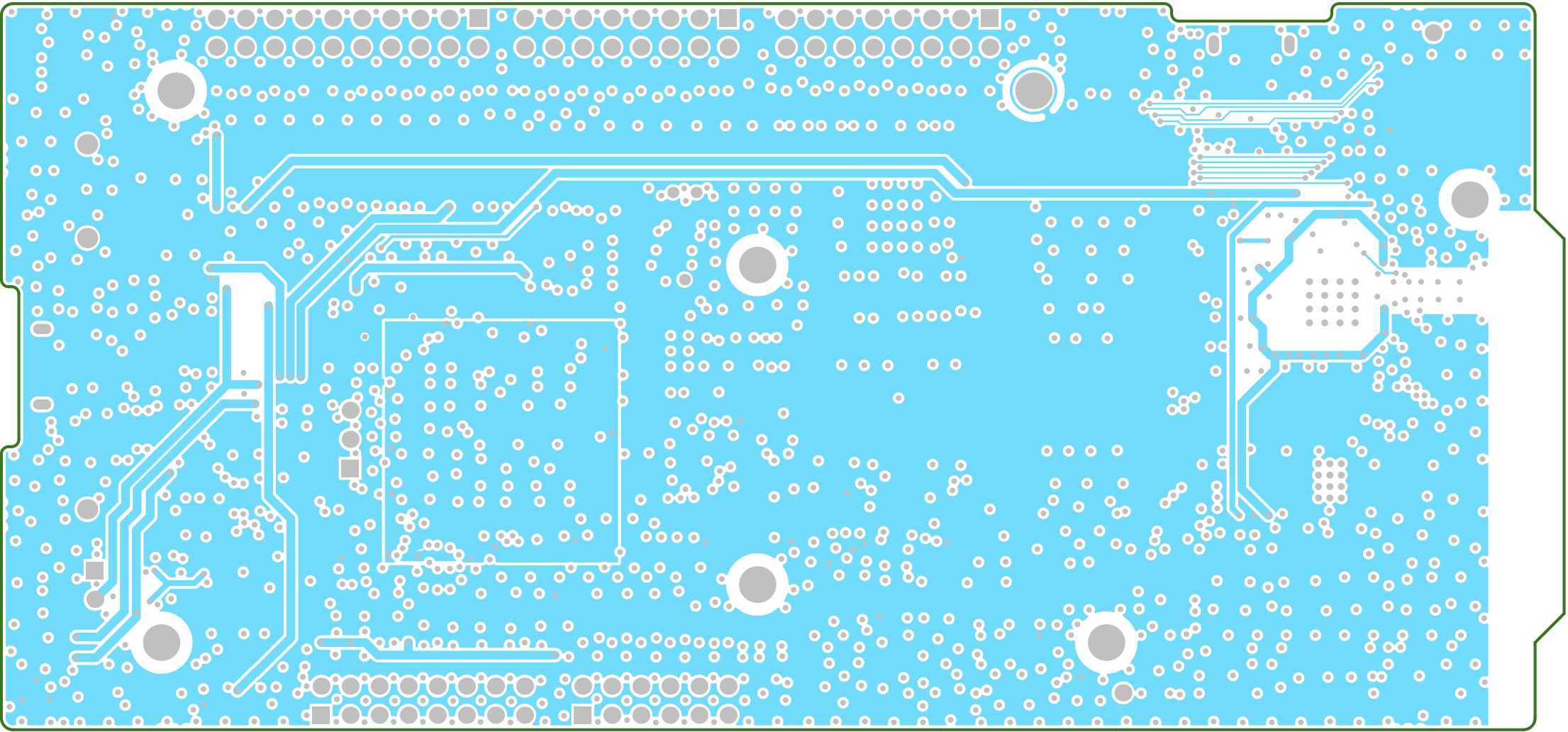


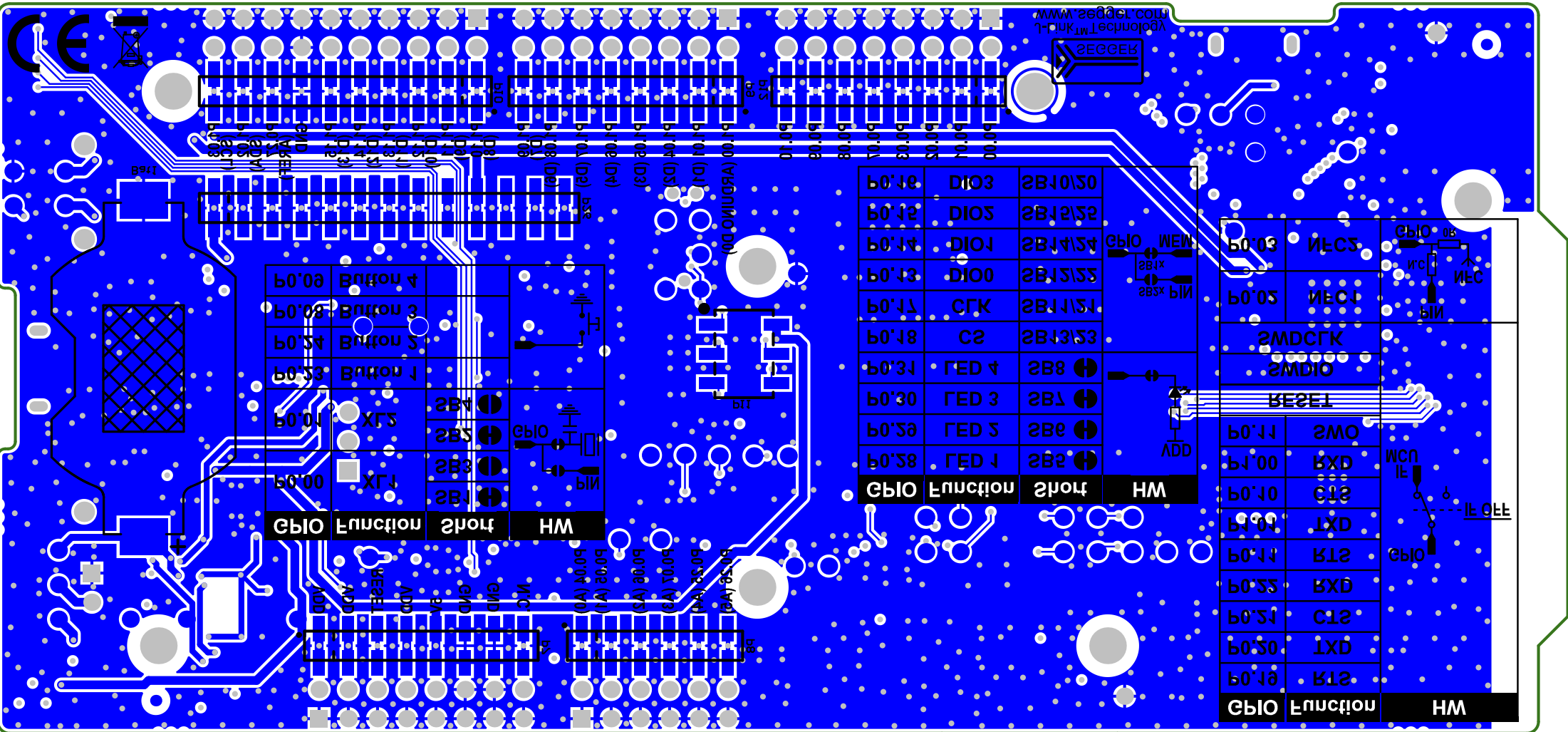
For evaluation only,
not FCC approved for resale.

nRF5340-DK









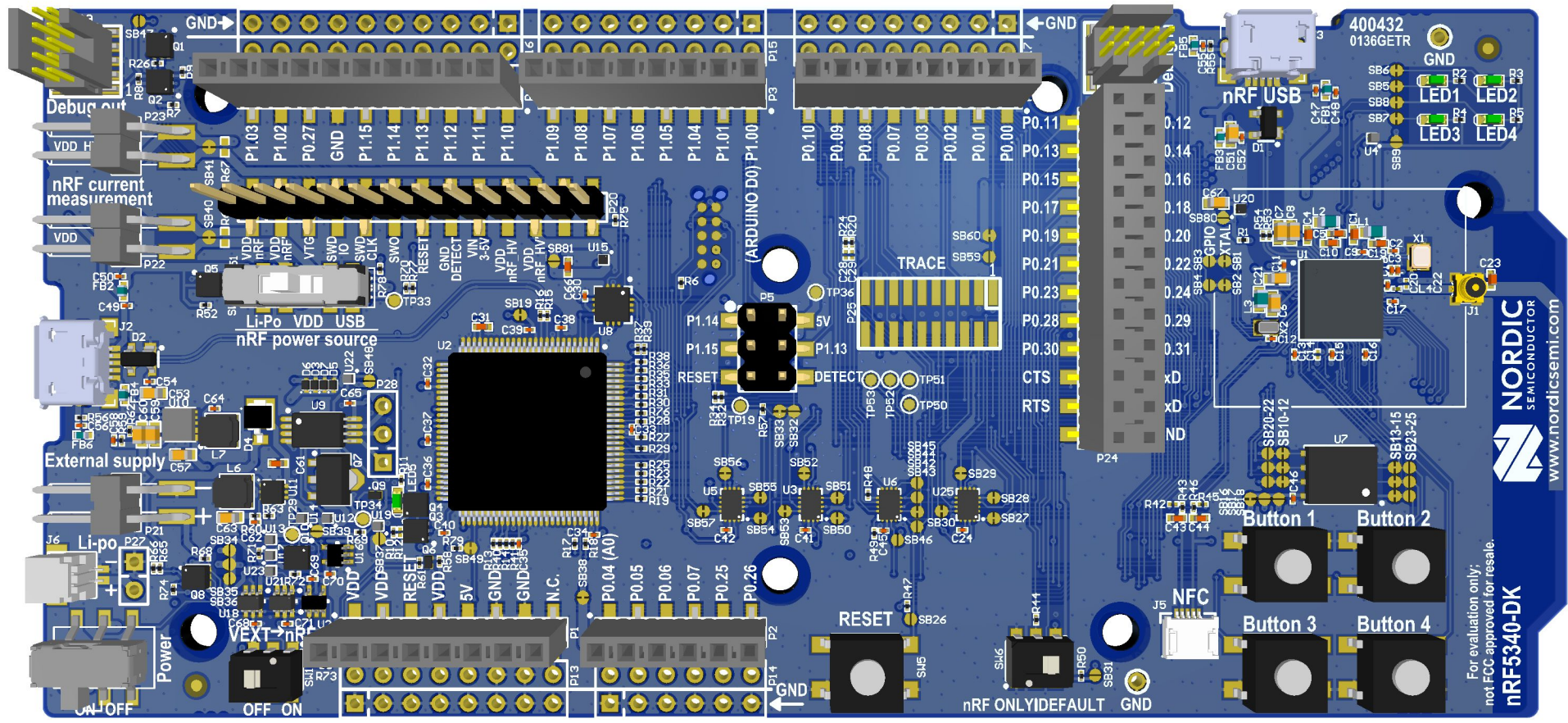
www.2edget.com
1-Click Technology



P0'00	Button 4		
P0'08	Button 3		
P0'34	Button 2		
P0'33	Button 1		
P0'01	XL3	2B4	
P0'00	XL4	2B5	
		2B3	
		2B1	
GPIO	Function	Short	HW

P0'10	DIO3	2B10/S0
P0'12	DIO2	2B12/S2
P0'14	DIO1	2B14/S4
P0'13	DIO0	2B13/S3
P0'11	CLK	2B11/S1
P0'18	C2	2B13/S3
P0'34	LED 4	2B8
P0'30	LED 3	2B7
P0'30	LED 2	2B6
P0'30	LED 1	2B2
GPIO	Function	Short
		HW

P0'03	IFC3	
P0'05	IFC4	
	2MDCGK	
	2MDIO	
	BE2E1	
P0'11	2MO	
P1'00	FXD	
P0'10	C12	
P1'04	TXD	
P0'11	K12	
P0'33	FXD	
P0'34	C12	
P0'30	TXD	
P0'10	K12	
GPIO	Function	
		HW



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nRF5340-DK



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