

# Nordic Semiconductor ASA

**nRF52840 Bluetooth Smart/ANT/802.15.4/2.4GHz RF Preview Development Board (PCA10056)**

- |          |               |
|----------|---------------|
| Sheet 1: | Cover         |
| Sheet 3: | Pin Map       |
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| Sheet 4: | Interface MCU |
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 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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**PCA10056 - Cover**

Size <b>A3</b>	Project Number <b>4440</b>	Revision <b>0.11.0</b>	
Date: <b>09.11.2017</b>	Sheet <b>1</b> of <b>7</b>	File: <b> pca10056_sheet1_cover.SchDoc</b>	Drawn By: <b>RUBR</b>

A

A

B

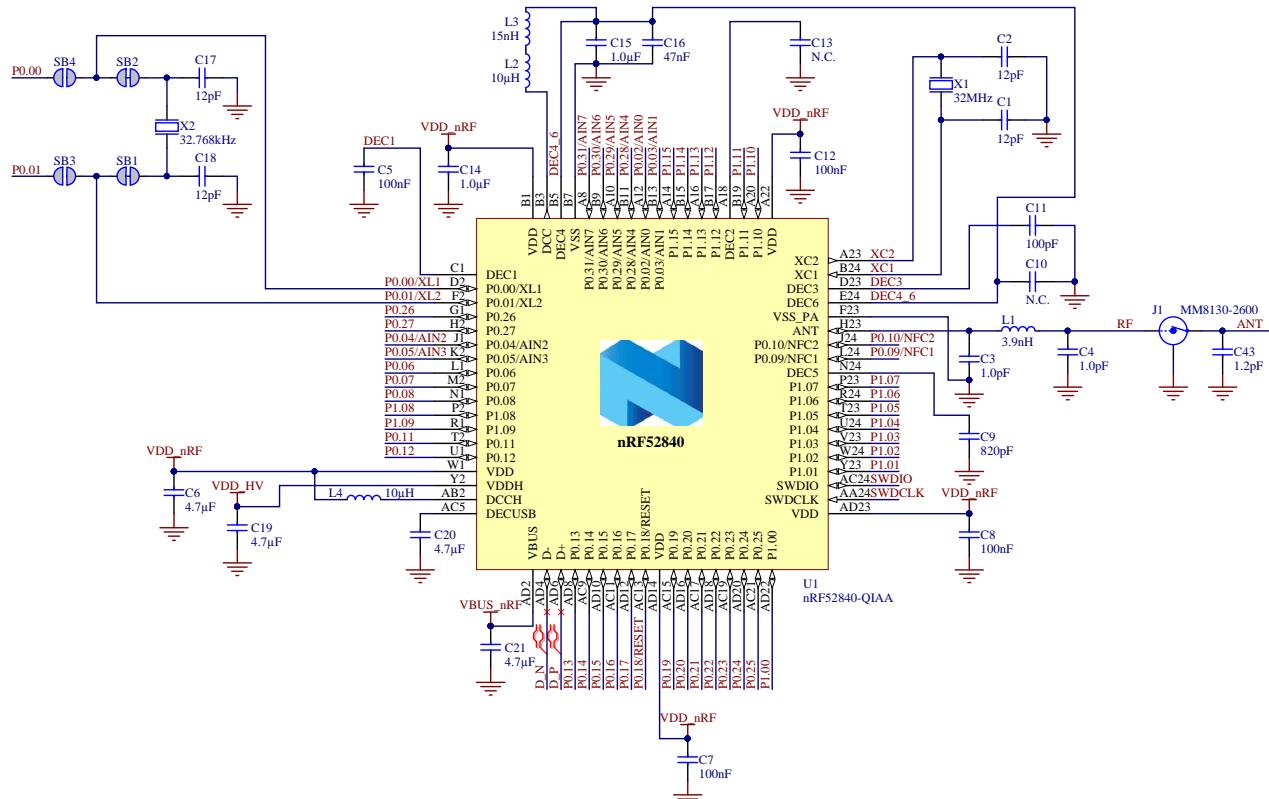
B

C

C

D

D



P0.00  
P0.01  
P0.02/AIN0  
P0.03/AIN1  
P0.04/AIN2  
P0.05/AIN3  
P0.06  
P0.07  
P0.08  
P0.09/NFC1  
P0.09/NFC2  
P0.10/NFC1  
P0.10/NFC2  
P0.11  
P0.12  
P0.13  
P0.14  
P0.15  
P0.16  
P0.17  
P0.18/RESET  
P0.19  
P0.20  
P0.21  
P0.22  
P0.23  
P0.24  
P0.25  
P0.26  
P0.27  
P0.28/AIN4  
P0.29/AIN5  
P0.30/AIN6  
P0.31/AIN7  
P1.00  
P1.01  
P1.02  
P1.03  
P1.04  
P1.05  
P1.06  
P1.07  
P1.08  
P1.09  
P1.10  
P1.11  
P1.12  
P1.13  
P1.14  
P1.15

D-  
D+  
SWDIO  
SWDCLK

PCA10056 - nRF52840 MCU

Size: A3 Project Number: 4440

Revision: 0.11.0

Date: 10.11.2017

Sheet 2 of 7

File: pca10056\_sheet2\_nrf52840\_mcu.SchDoc

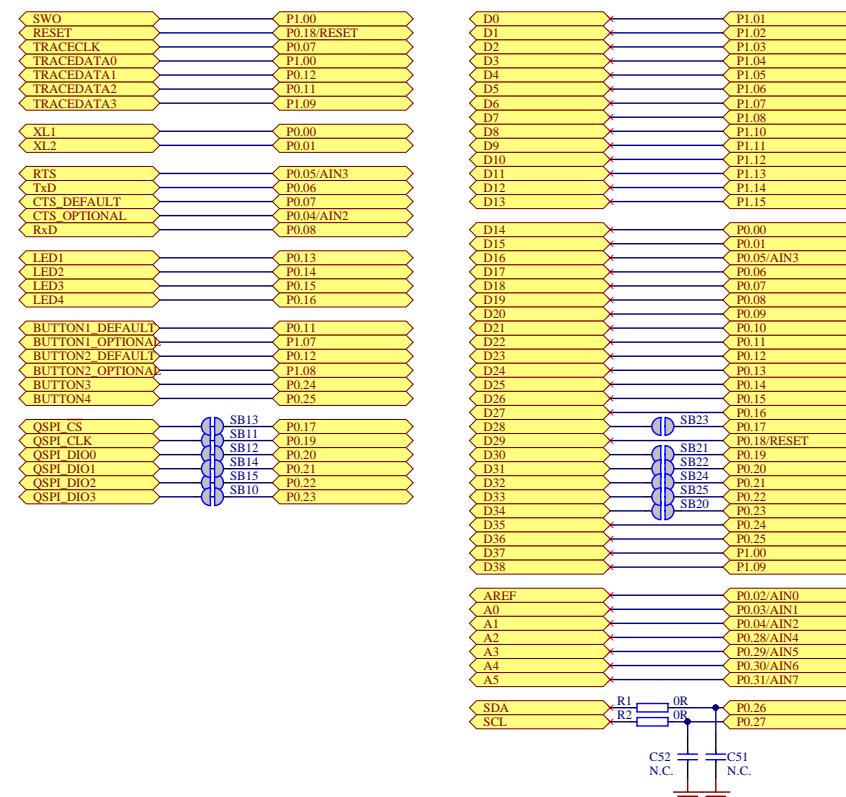


Drawn By: RUBR

A

A

## GPIO pin mapping



B

B

C

C

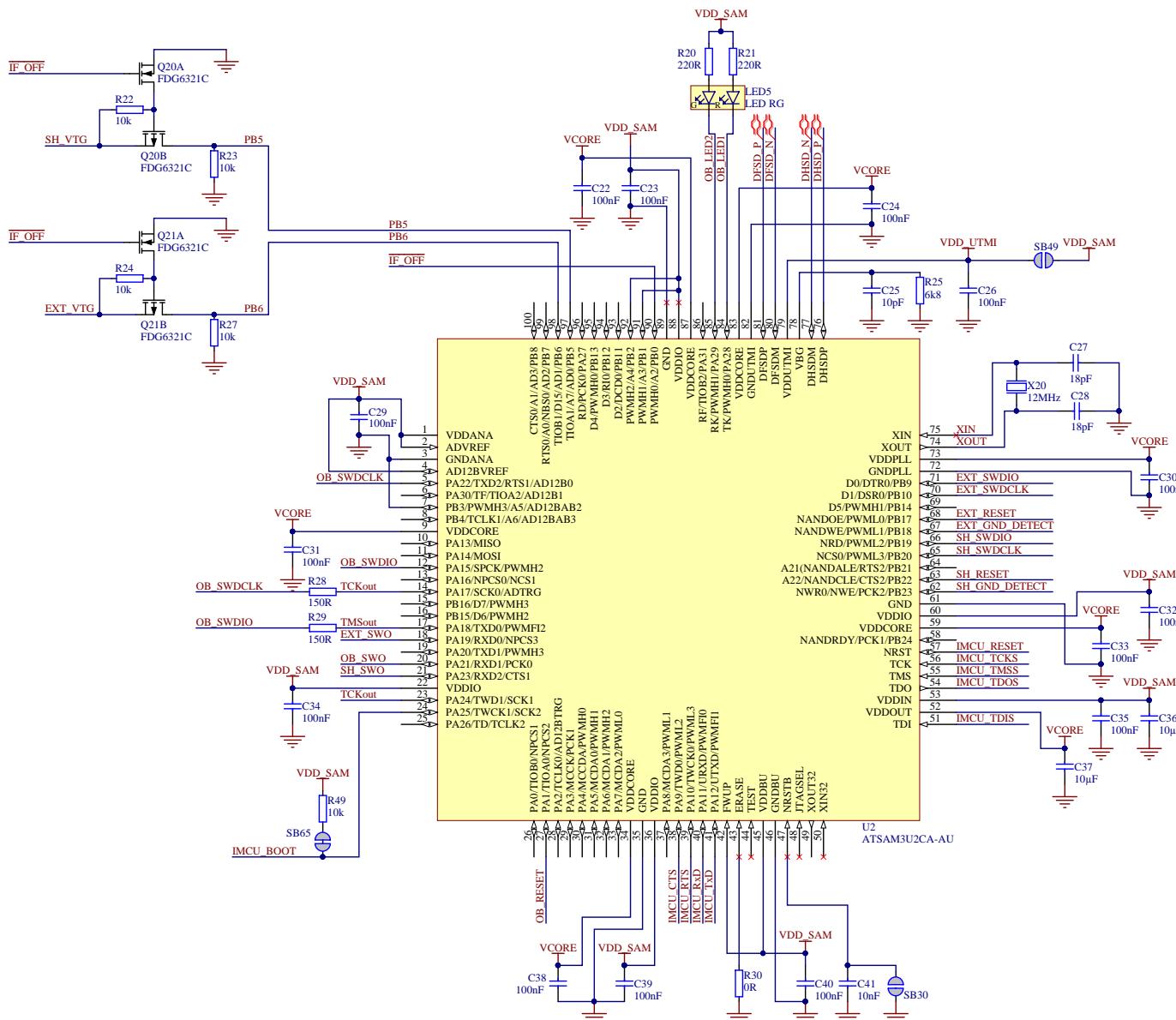
D

D

PCA10056 - Pin Map

Size	Project Number	Revision
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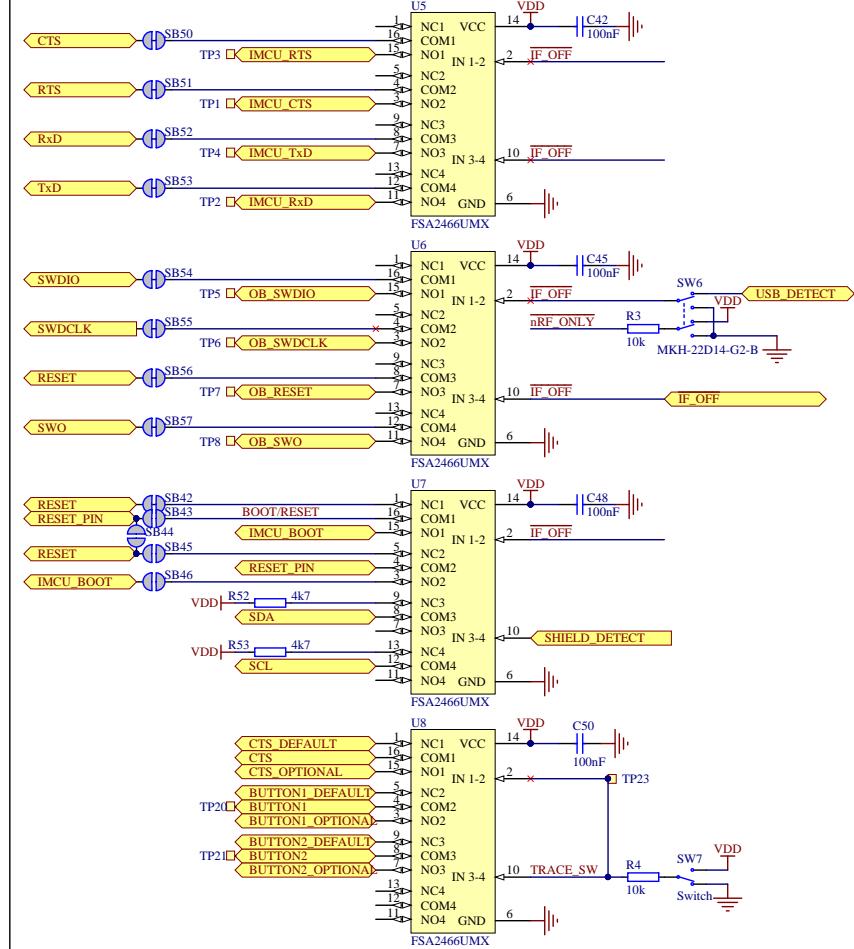
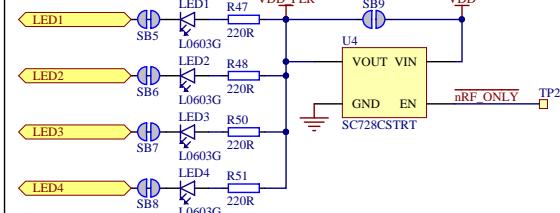
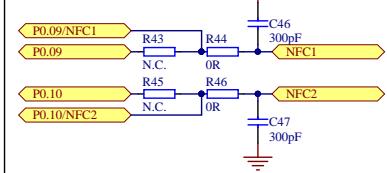
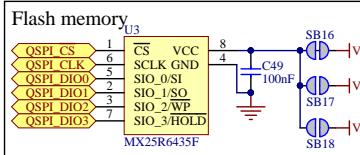
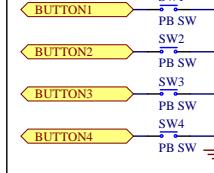
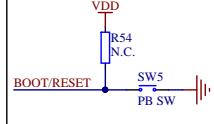
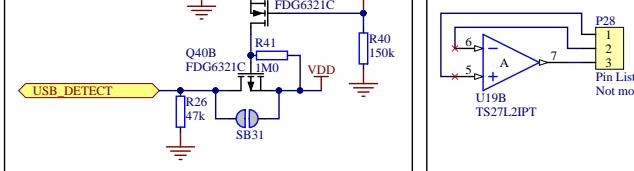
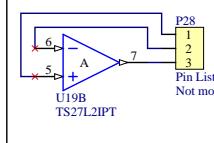


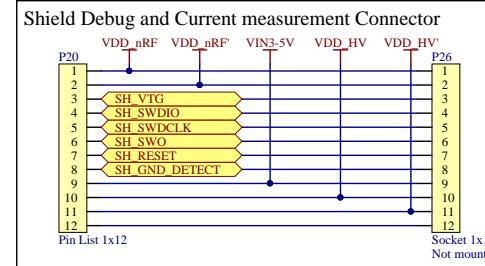
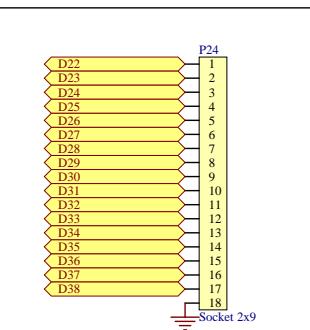
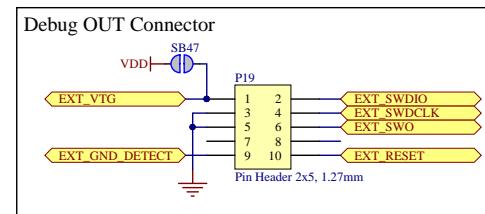
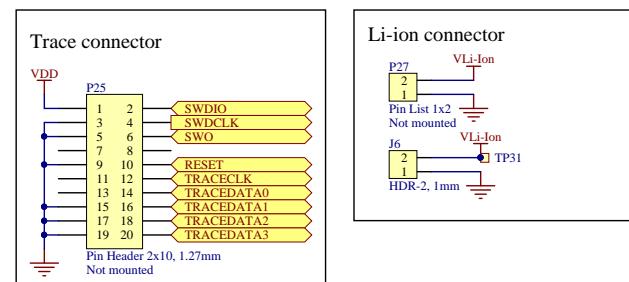
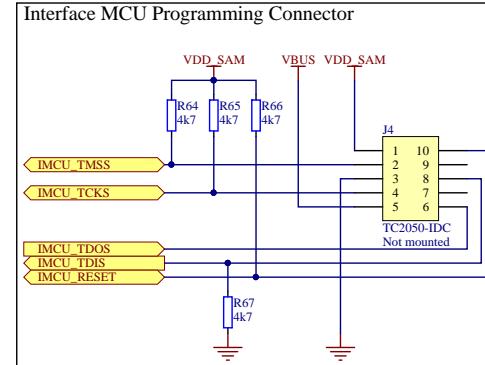
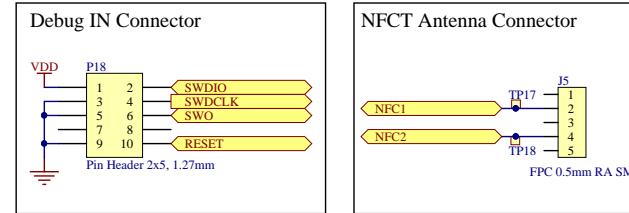
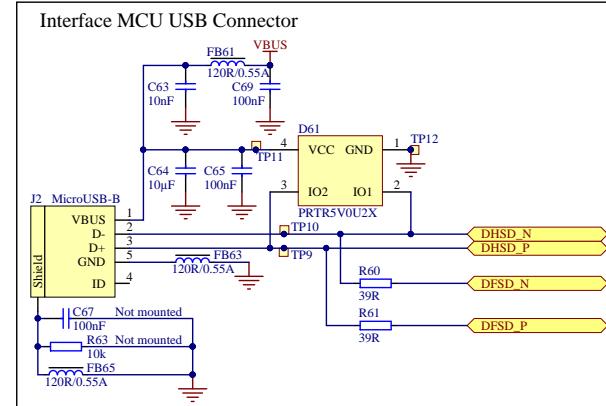
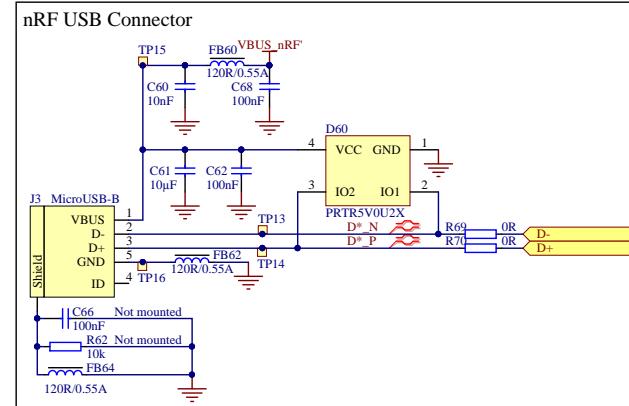
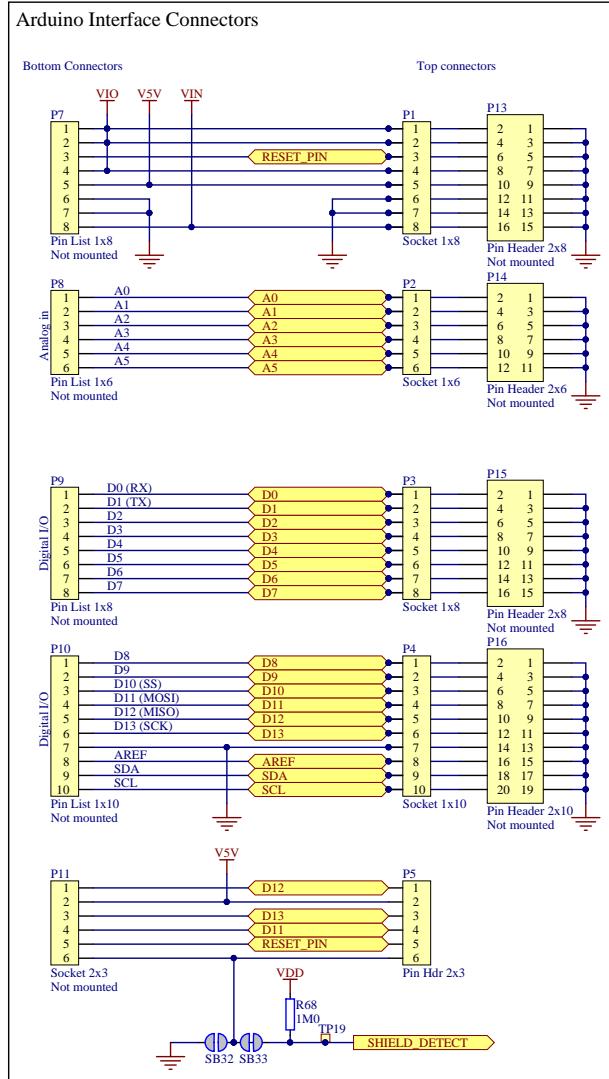


PCA10056 - Interface MCU

**PCA10056 - Interface MCU**  

  
 Size Project Number Revision  
**A3** **4440** **0.11.0**  
 Date: **25.09.2017** Sheet **4** of **7**  
 File:  **pca10056\_schem4\_interface\_mcu\_SchDoc**  Drawn By:  **PJB/PB**

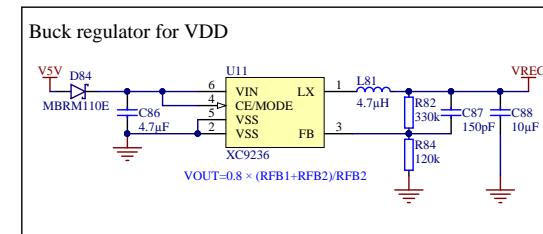
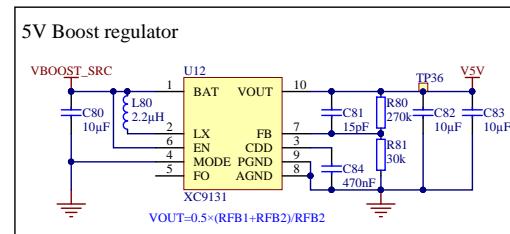
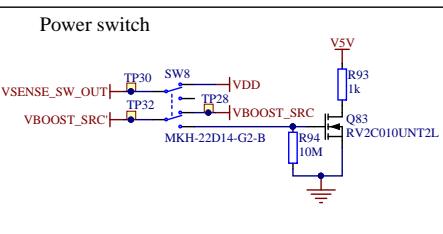
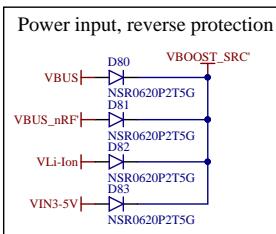
**Signal switches****LEDs****NFC pin configuration****Buttons****Boot/Reset button****USB detect switch****Extra Op-amp****PCA10056 - Miscellaneous**Size  
**A3**Project Number  
**4440**Revision  
**0.11.0**Date: **09.11.2017**Sheet **5** of **7**File: **pea10056\_sheet5\_misc.SchDoc**



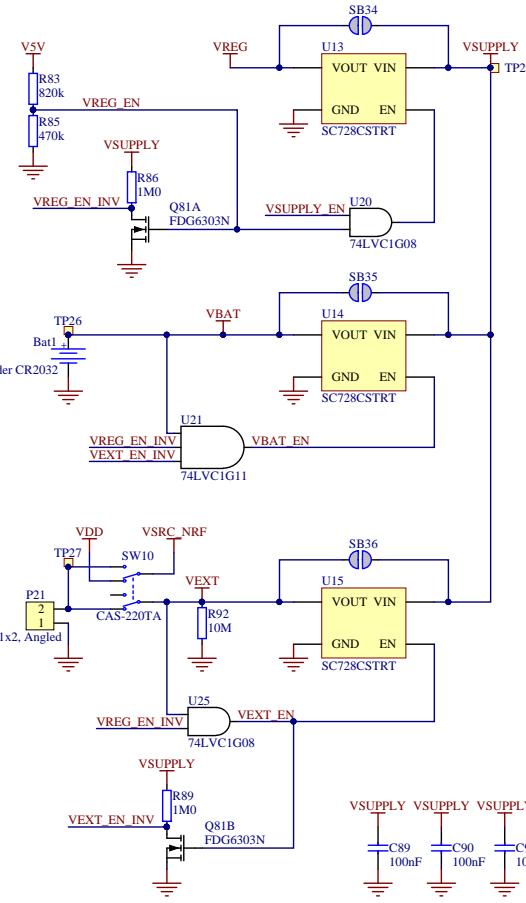
PCA10056 - Connectors

PCBA10056 Connectors  
Size A3 Project Number 4440  
Date: 09.11.2017 File: pca10056\_sheet6\_connectors.SchDoc

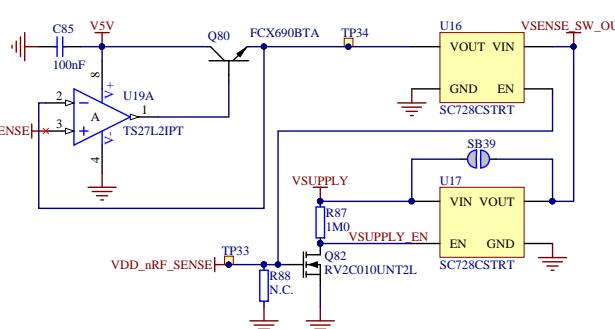

**NORDIC**  
 SEMICONDUCTOR



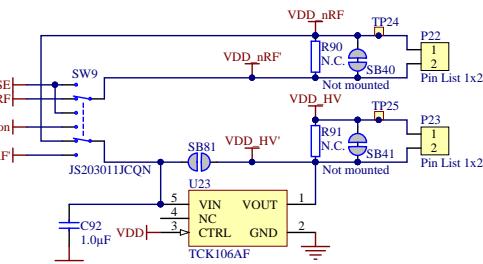
Power sources and switches



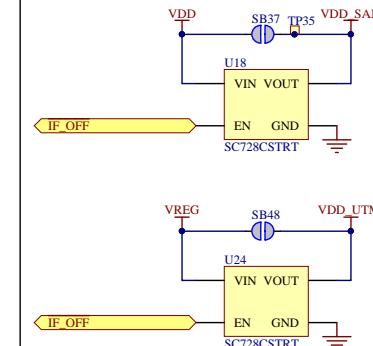
VDD\_nRF sense buffer and switch



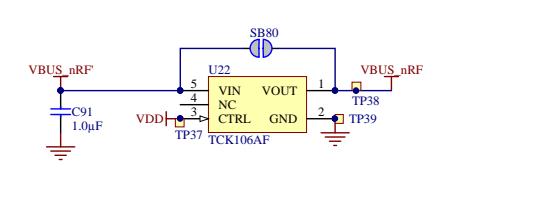
nRF power source select and current measurement



Interface MCU power switch



VBUS\_nRF switch

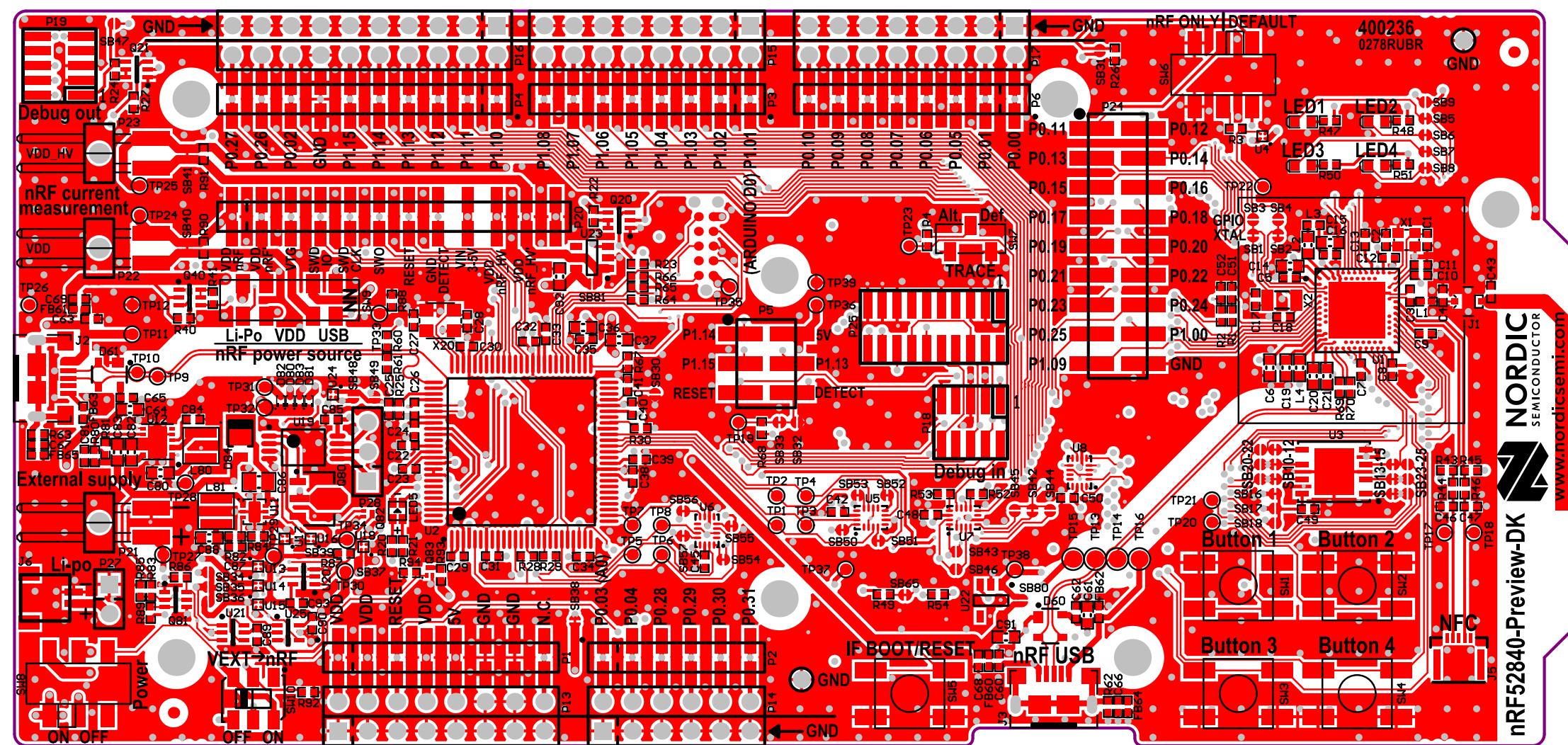


## Instrument ground



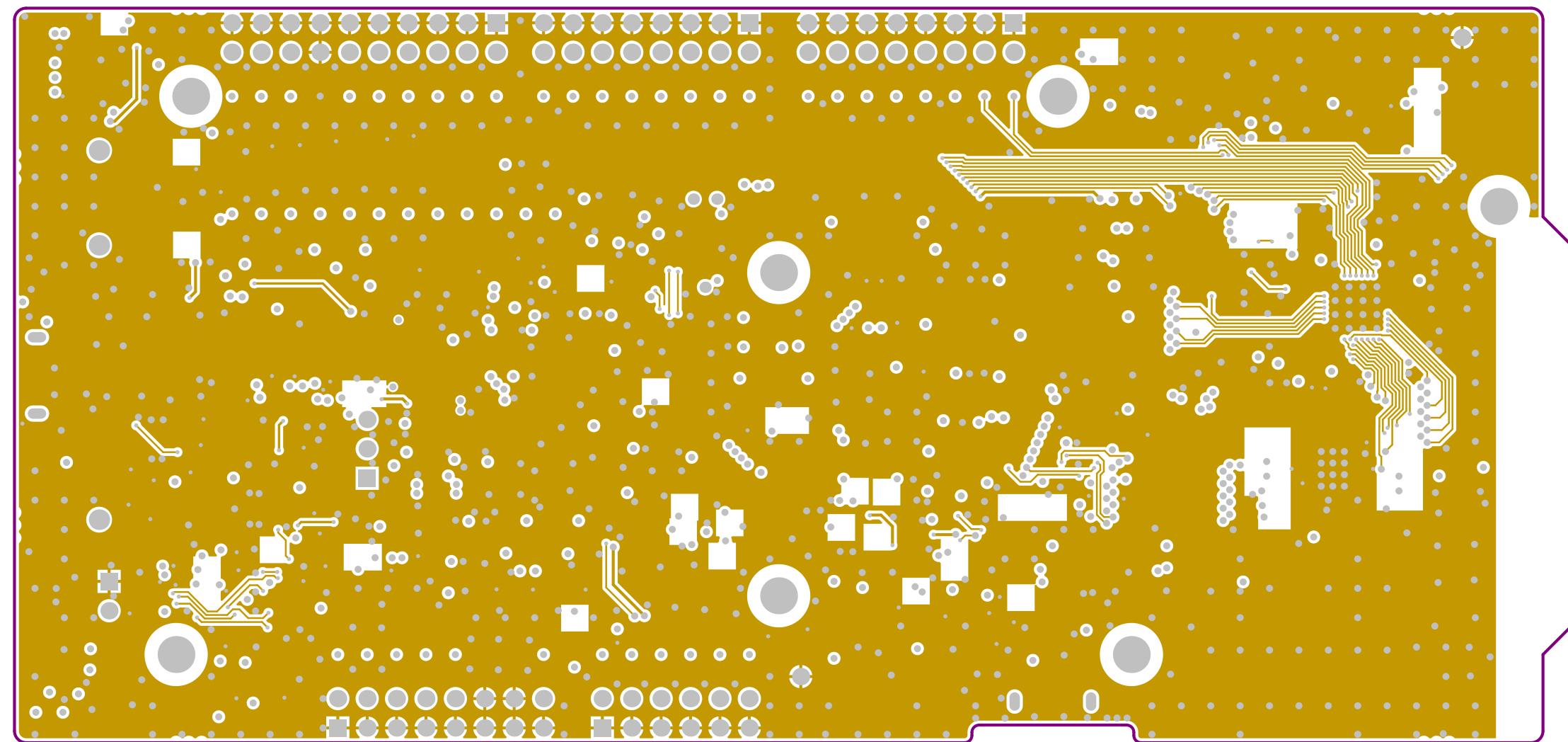
## PCA10056 - Power Supply

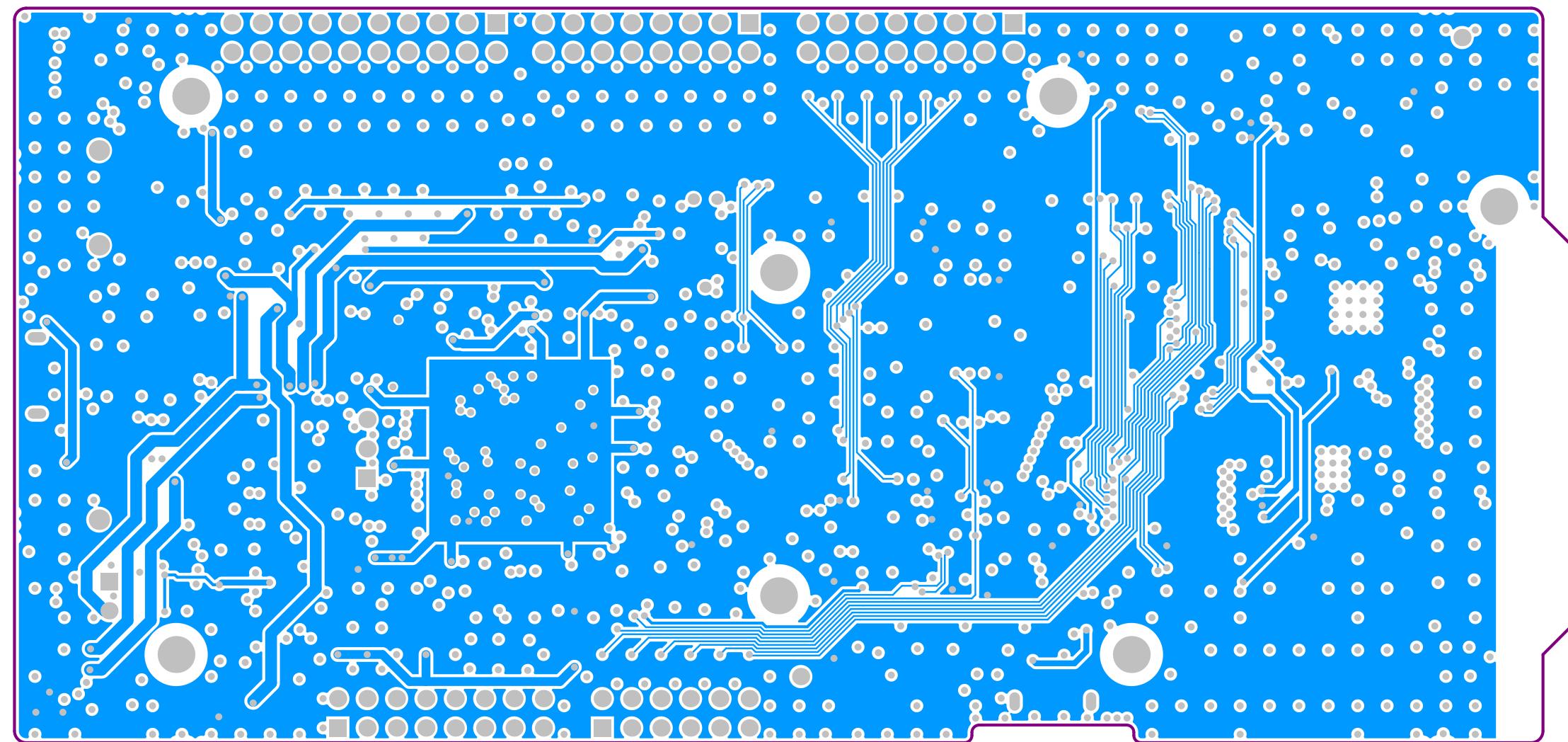
Size	Project Number	Revision
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Date:	10.11.2017	Sheet 7 of 7
File:	peca10056_sheet7_power_supply.SchDoc	Drawn By: RUBR



**NORDIC**  
SEMICONDUCTOR  
[nordicsemi.com](http://nordicsemi.com)

nRF52840-Preview-DK





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