

# Nordic Semiconductor ASA

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

Sheet 1: Cover

Sheet 2: nRF Radio

Sheet 3: Pin Map

Sheet 4: Interface MCU

Sheet 5: Miscellaneous

Sheet 6: Connectors

Sheet 7: 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.

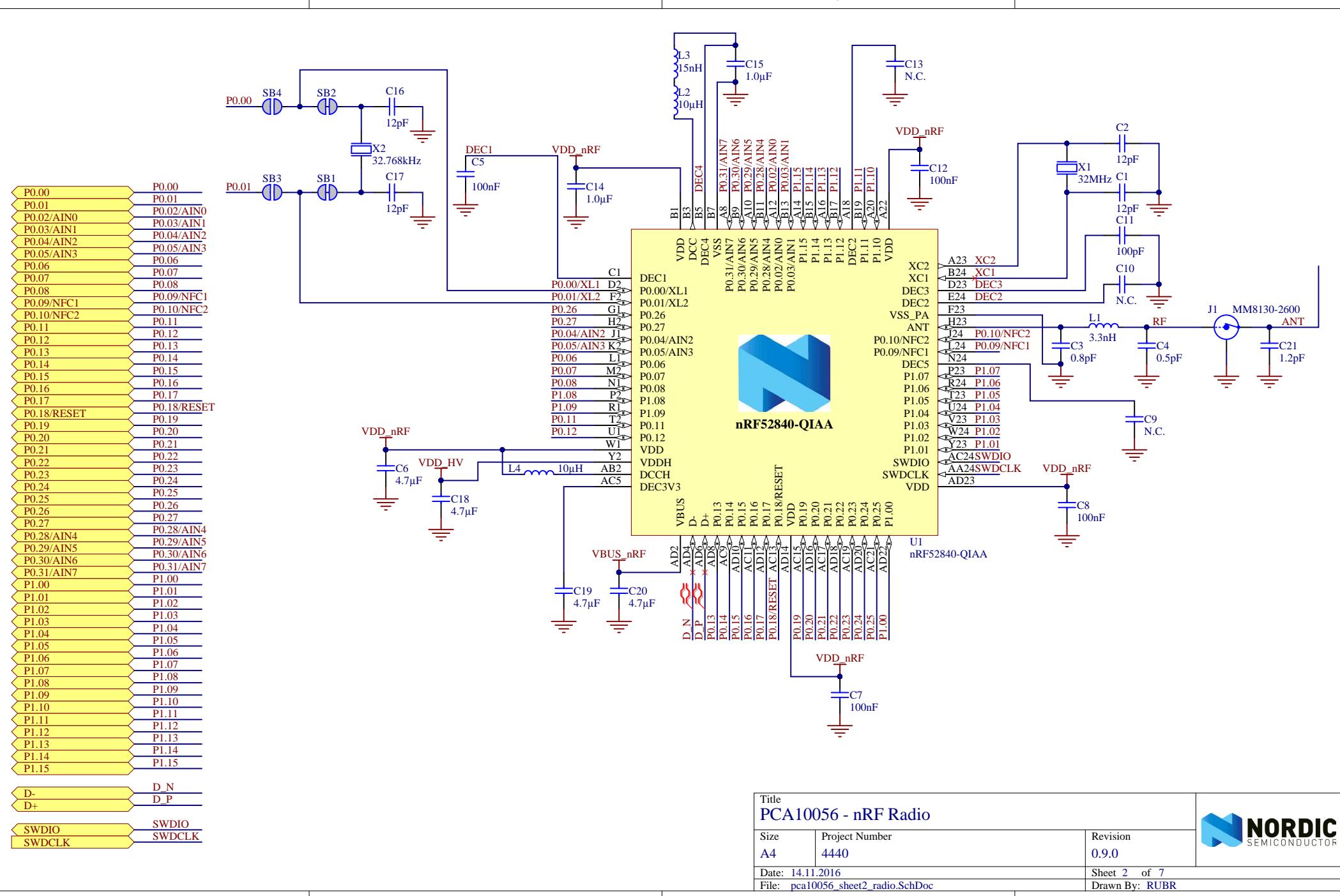


Title  
**PCA10056 - Cover**

|                   |                               |                          |
|-------------------|-------------------------------|--------------------------|
| Size<br><b>A4</b> | Project Number<br><b>4440</b> | Revision<br><b>0.9.0</b> |
|-------------------|-------------------------------|--------------------------|

|   |                            |
|---|----------------------------|
| Date: <b>14.11.2016</b>                   | Sheet <b>1</b> of <b>7</b> |
| File: <b>pca10056_sheet1_cover.SchDoc</b> | Drawn By: <b>RUBR</b>      |



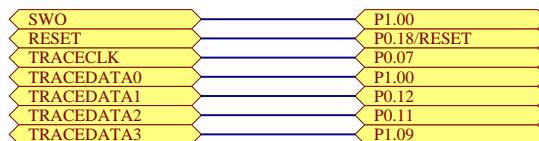


## Title

# PCA10056 - nRF Radio

### GPIO pin mapping

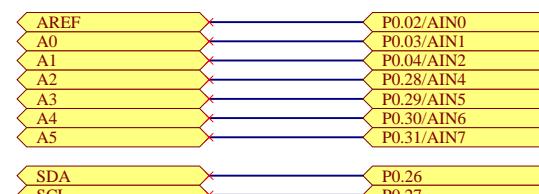
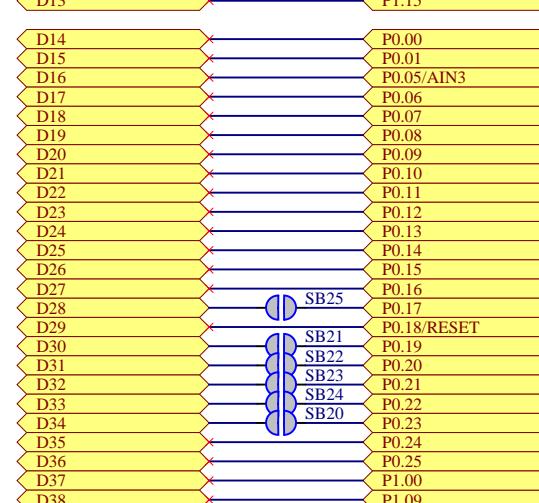
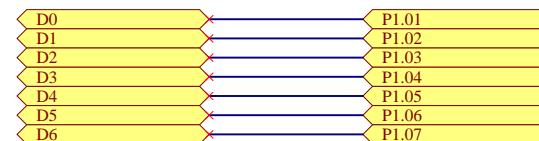
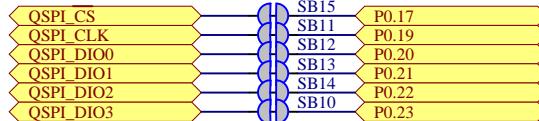
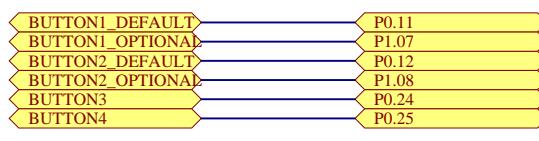
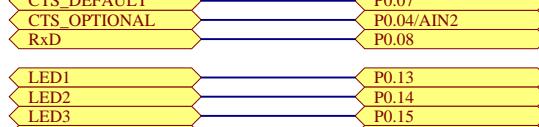
A



B

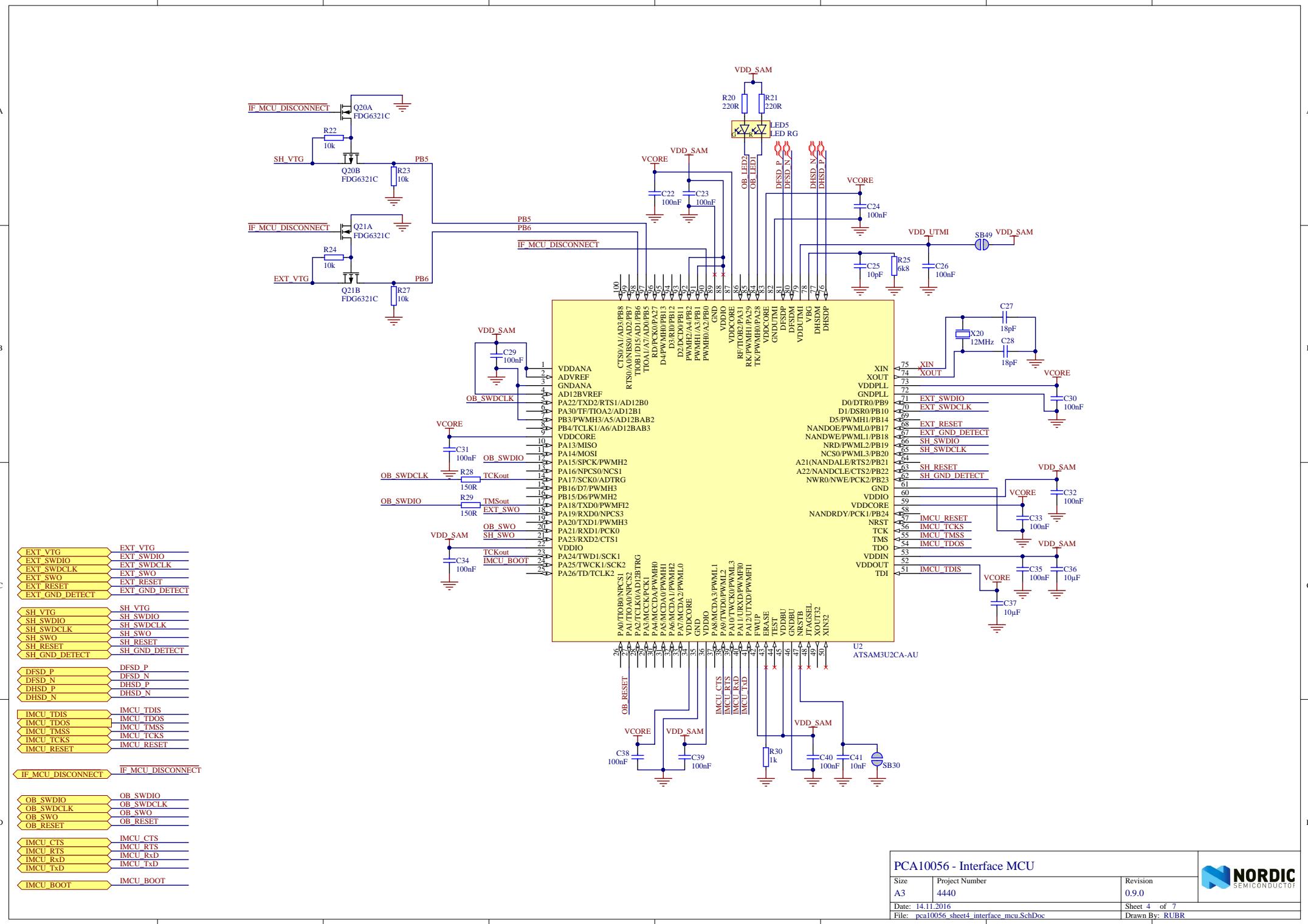


C



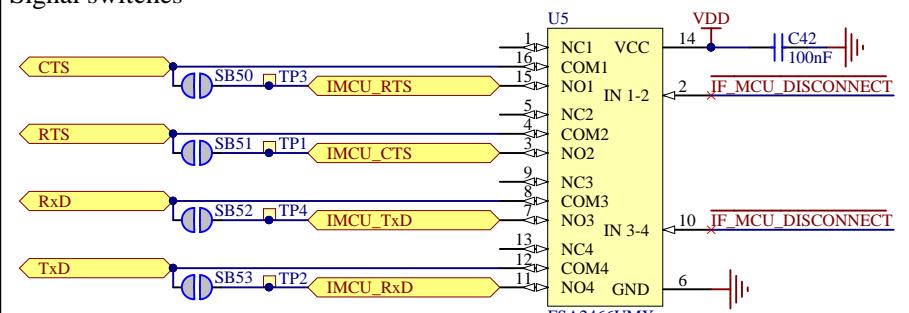
Title  
**PCA10056 - Pin Map**

| Size                                 | Project Number | Revision       |  |
|--------------------------------------|----------------|----------------|---|
| A4                                   | 4440           | 0.9.0          |   |
| Date: 14.11.2016                     |                | Sheet 3 of 7   |   |
| File: pca10056_sheet3_pin_map.SchDoc |                | Drawn By: RUBR |   |

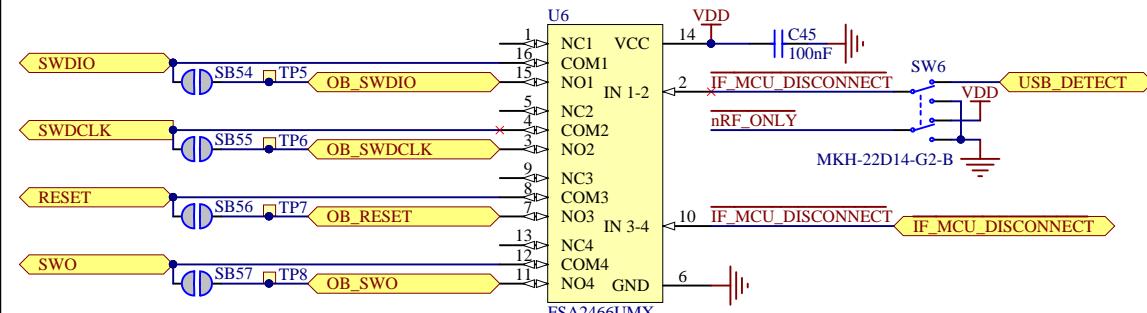


### Signal switches

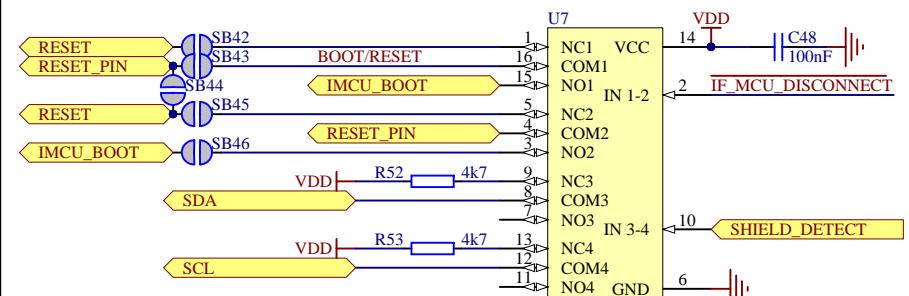
A



B

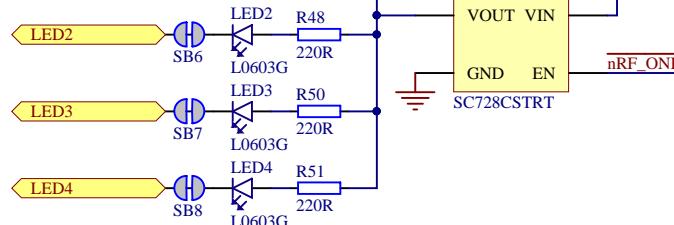


C

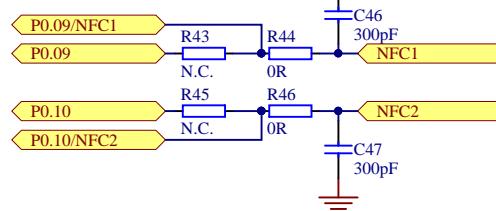


D

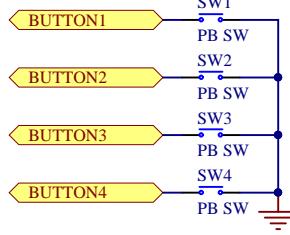
### LEDs



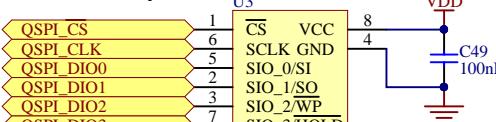
### NFC pin configuration



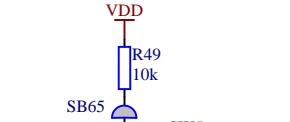
### Buttons



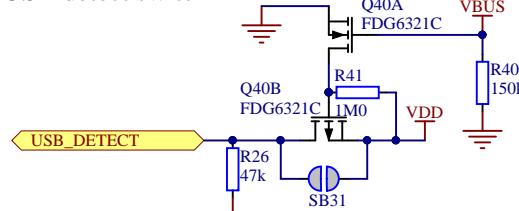
### Flash memory



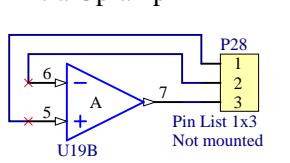
### Boot/Reset button



### USB detect switch

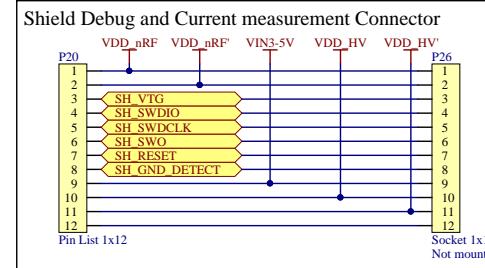
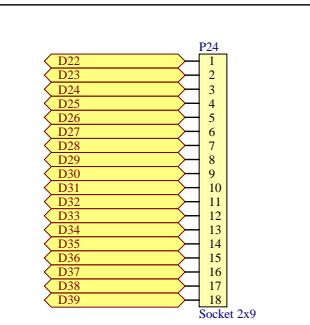
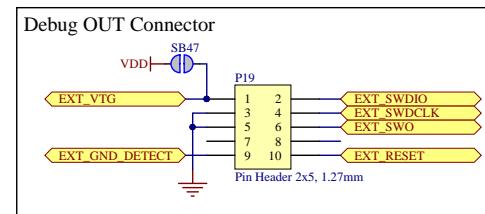
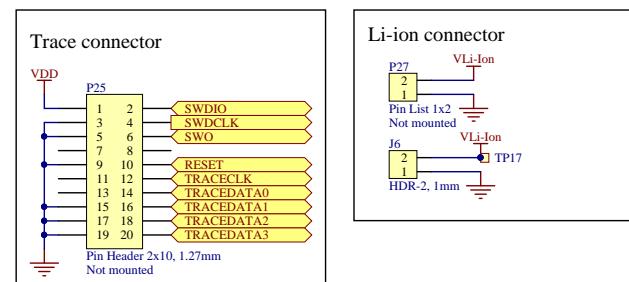
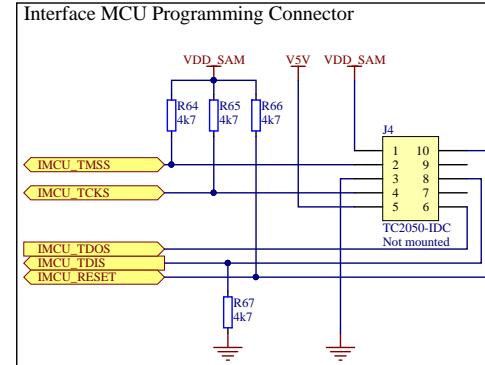
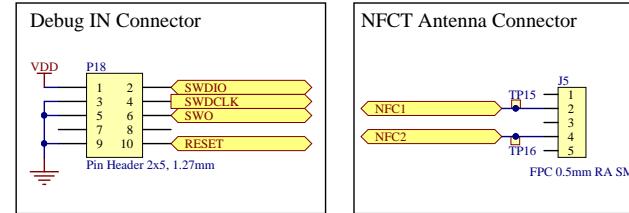
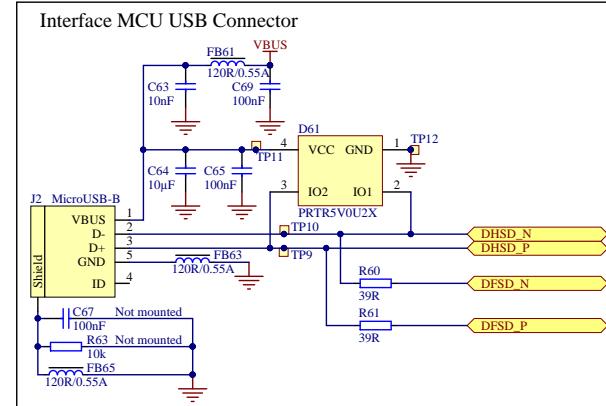
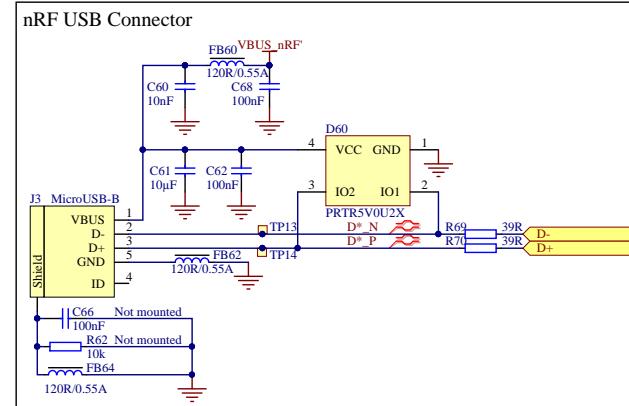
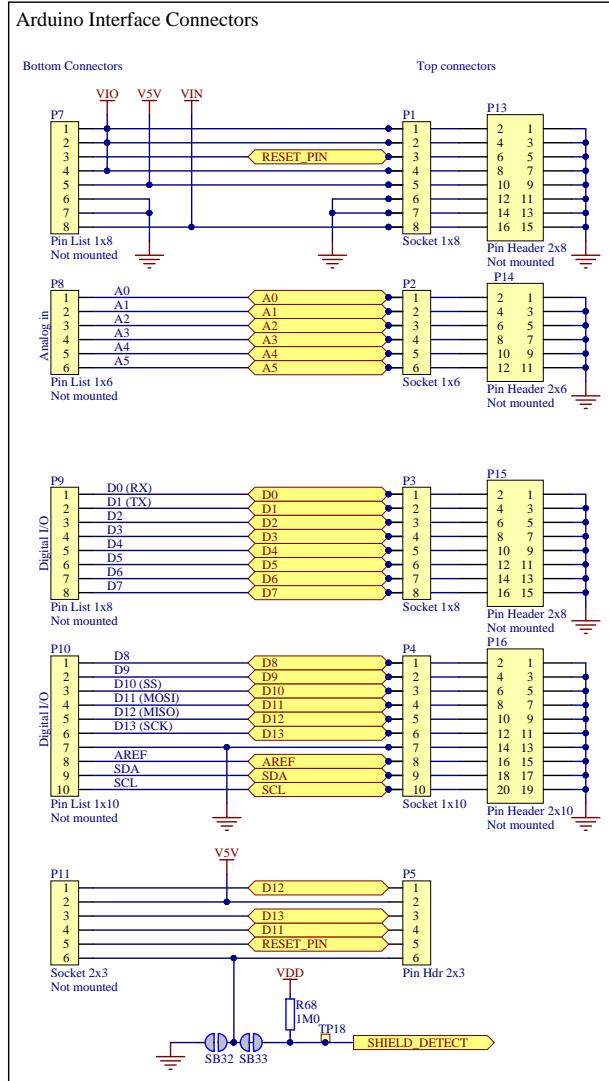


### Extra Op-amp



Title  
PCA10056 - Miscellaneous

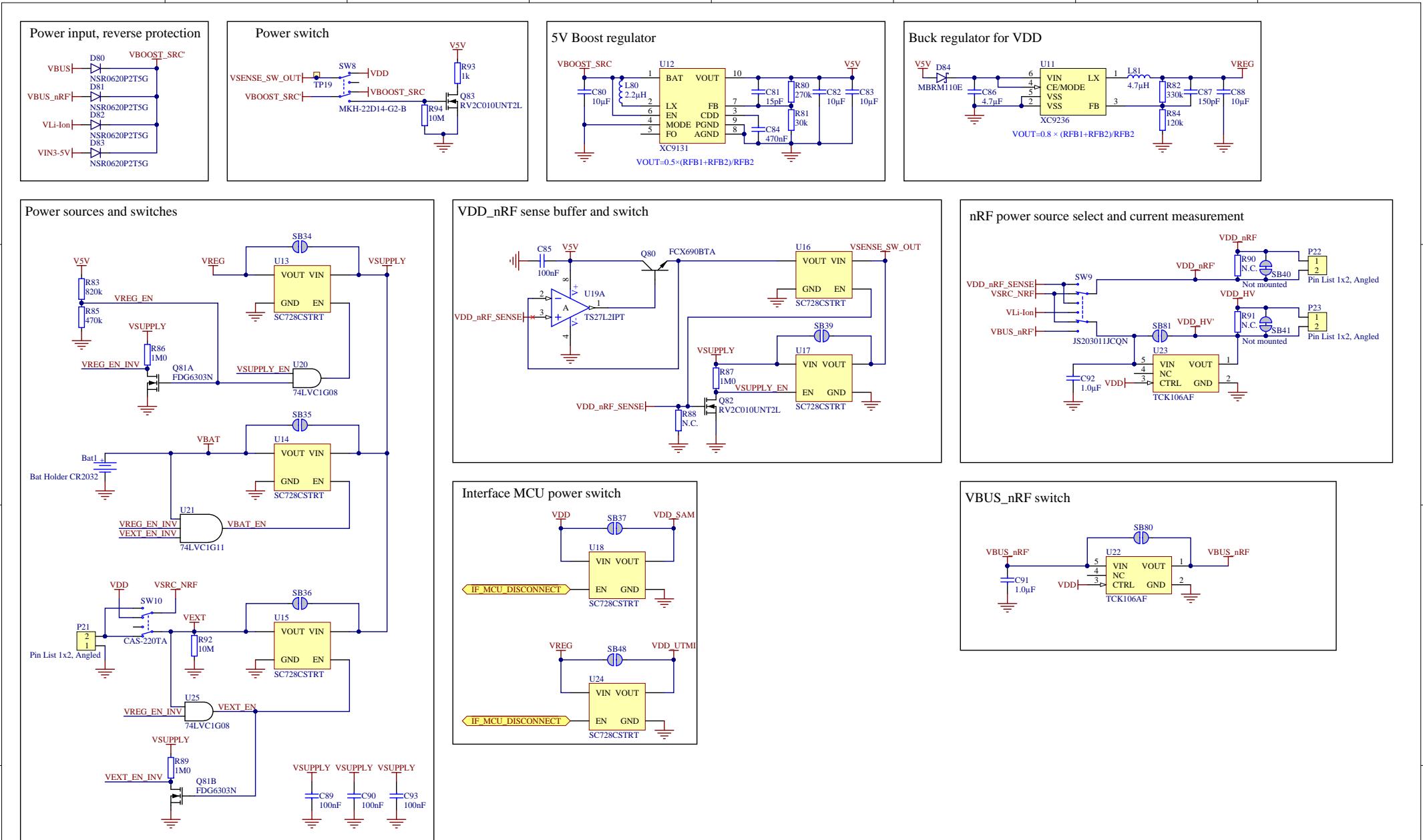
|                                   |                        |                   |   |
|-----------------------------------|------------------------|-------------------|---|
| Size<br>A4                        | Project Number<br>4440 | Revision<br>0.9.0 |  |
| Date: 14.11.2016                  |                        | Sheet 5 of 7      |   |
| File: pca10056_sheet5_misc.SchDoc |                        | Drawn By: RUBR    |   |



PCA10056 - Connectors

|       |                                   |
|-------|-----------------------------------|
| Size  | Project Number                    |
| A3    | 4440                              |
| Date: | 14.11.2016                        |
| File: | pca10056_sheet6_connectors.SchDoc |


**NORDIC**  
SEMICONDUCTOR



## Instrument ground

| PCA10056 - Power Supply                   |                |           |  NORDIC SEMICONDUCTOR |
|---|----------------|-----------|--|
| Size                                      | Project Number | Revision  |  |
| A3  | 4440           | 0.9.0     |  |
| Date: 14.11.2016                          |                | Sheet 7   | of 7   |
| File: pca10056_sheet7_power_supply.SchDoc |                | Drawn By: | RUBB   |

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0240RUBR



nRF5240-Preview-DK

www.nordicsemi.com

