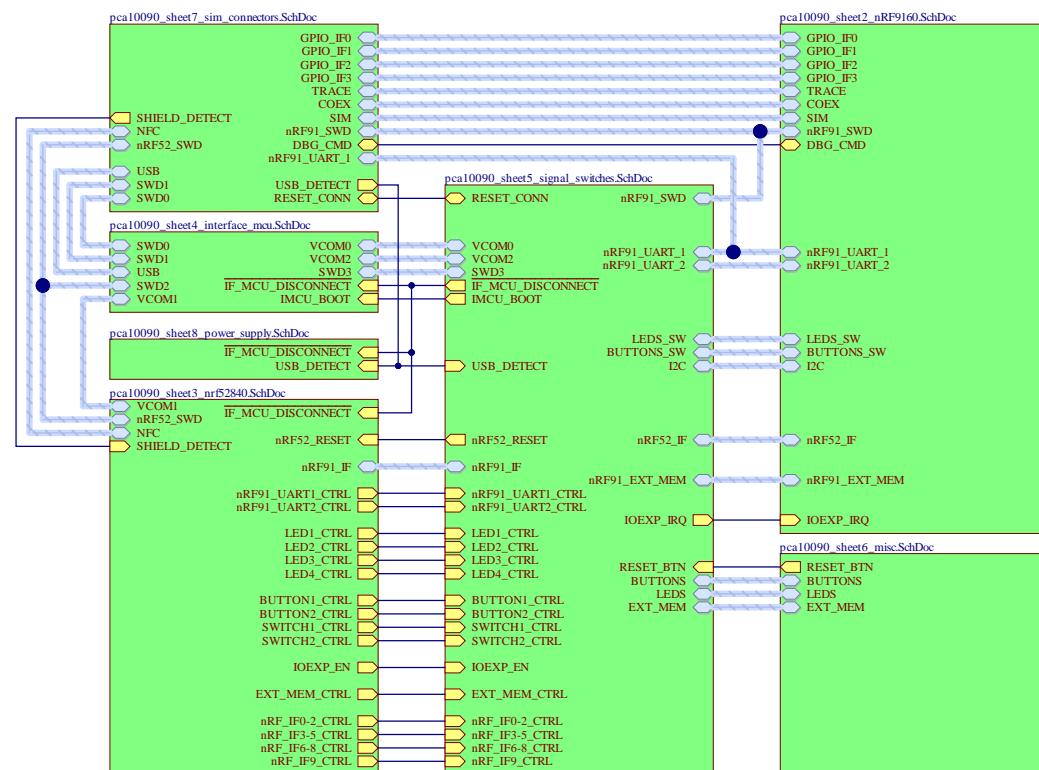


# Nordic Semiconductor ASA

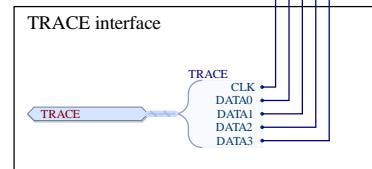
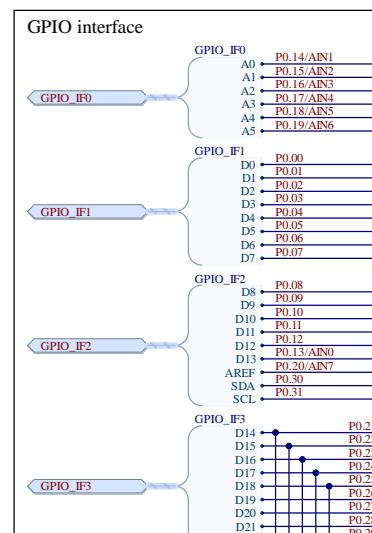
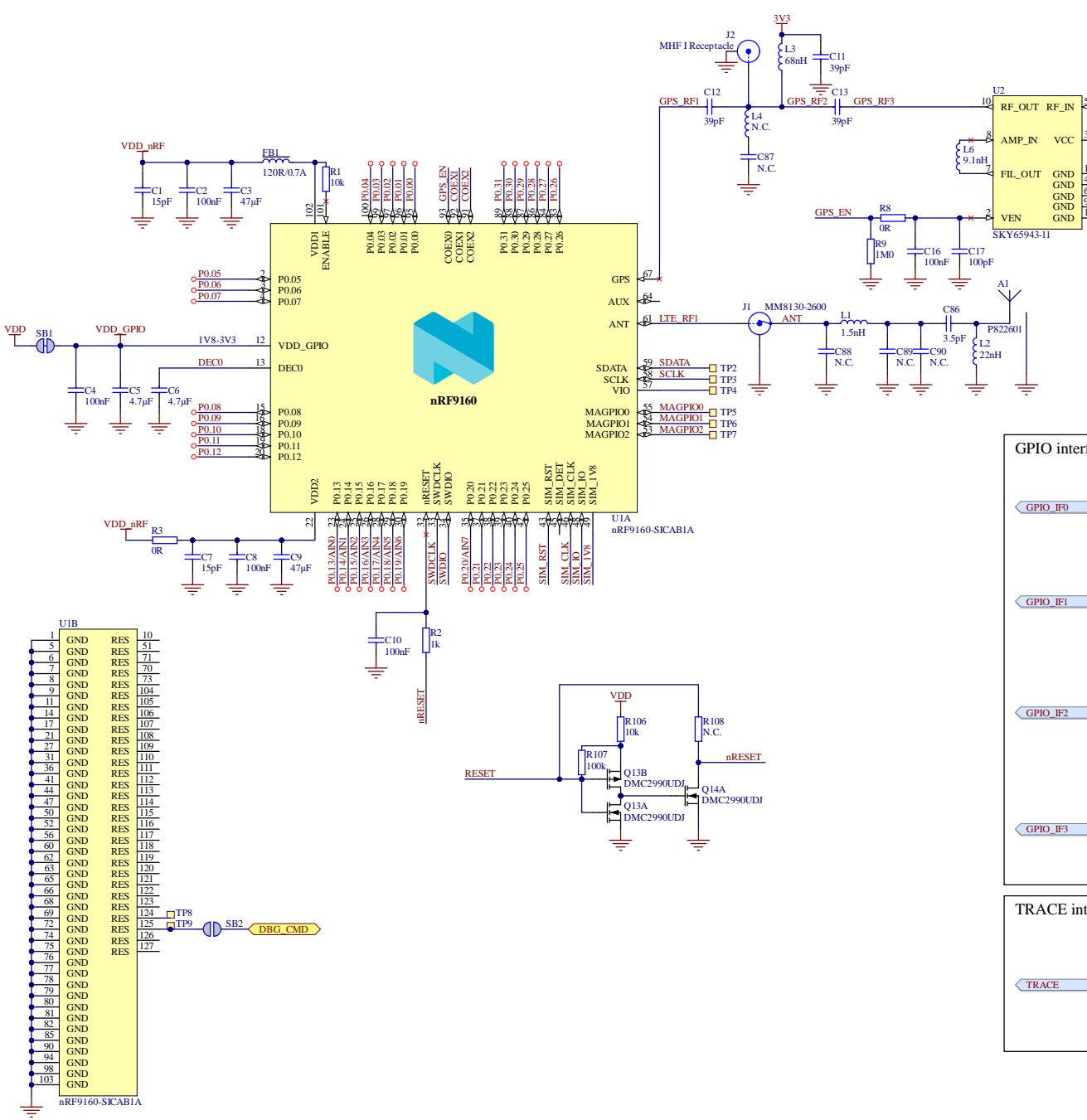
## nRF9160 Development Kit (PCA10090)

- Sheet 1: Connections  
 Sheet 2: nRF9160  
 Sheet 3: nRF52840  
 Sheet 4: Signal Switches  
 Sheet 5: Interface MCU  
 Sheet 6: Buttons and LEDs  
 Sheet 7: SIM & Connectors  
 Sheet 8: 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		
Connections		
Size	PCB Assembly Number	Revision
A3	PCA10090	1.1.0
Date: 10/17/2022	Sheet 1 of 8	
File: pca10090_sheet1_connections.SchDoc		Drawn By: RUBR

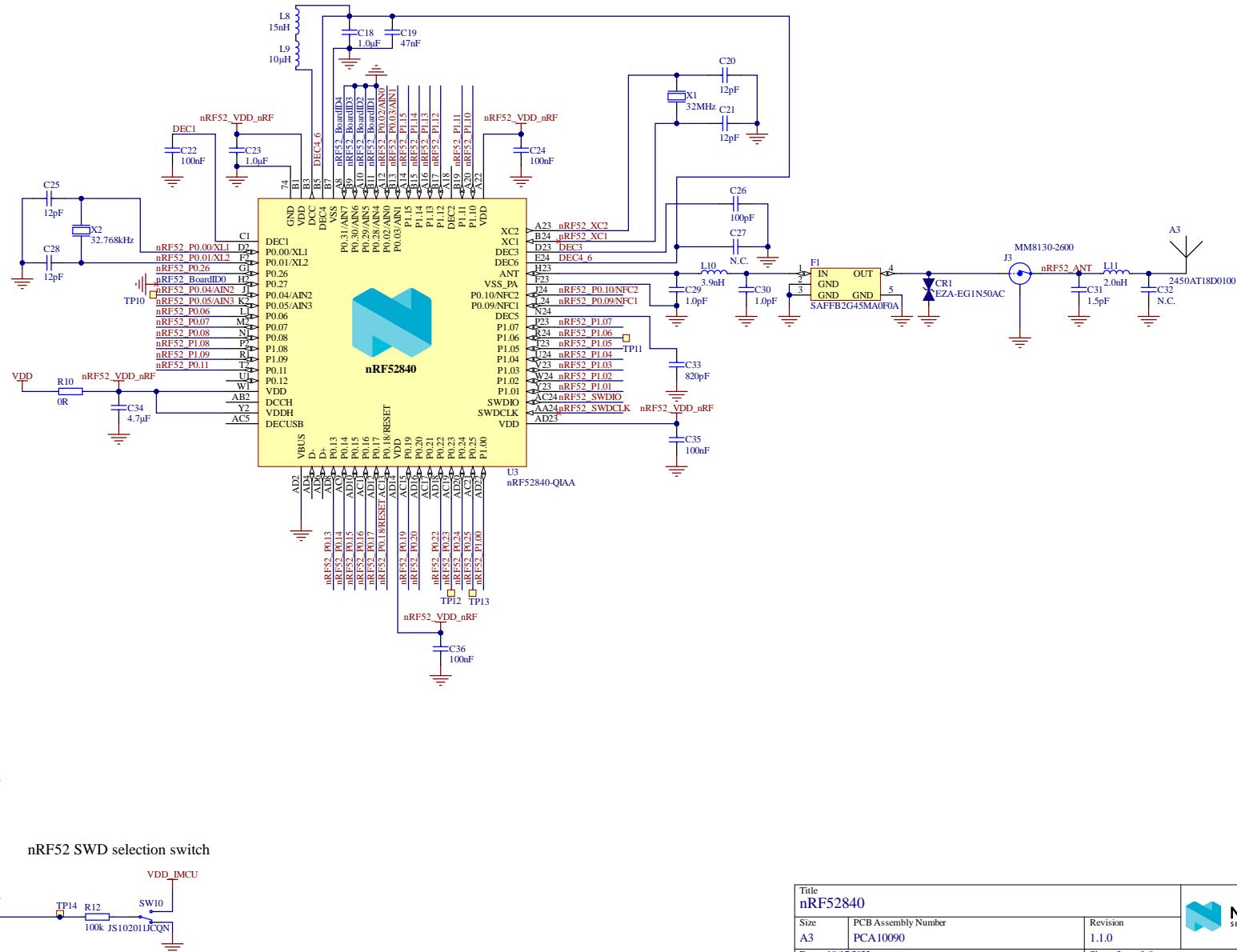


Title <b>nRF9160</b>		 <b>NORDIC</b> SEMICONDUCTOR
Size <b>A3</b>	PCB Assembly Number <b>PCA10090</b>	Revision <b>1.1.0</b>
Date <b>10/17/2022</b>	Sheet <b>3</b> of <b>8</b>	
File: <b> pca10090_sheet2_nRF9160.SchDoc</b>	Drawn By: <b>RUBR</b>	

A

B

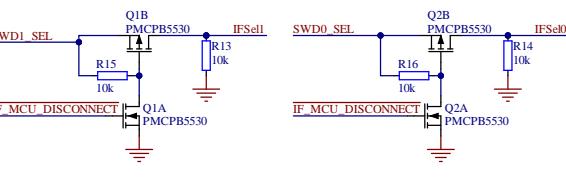
6



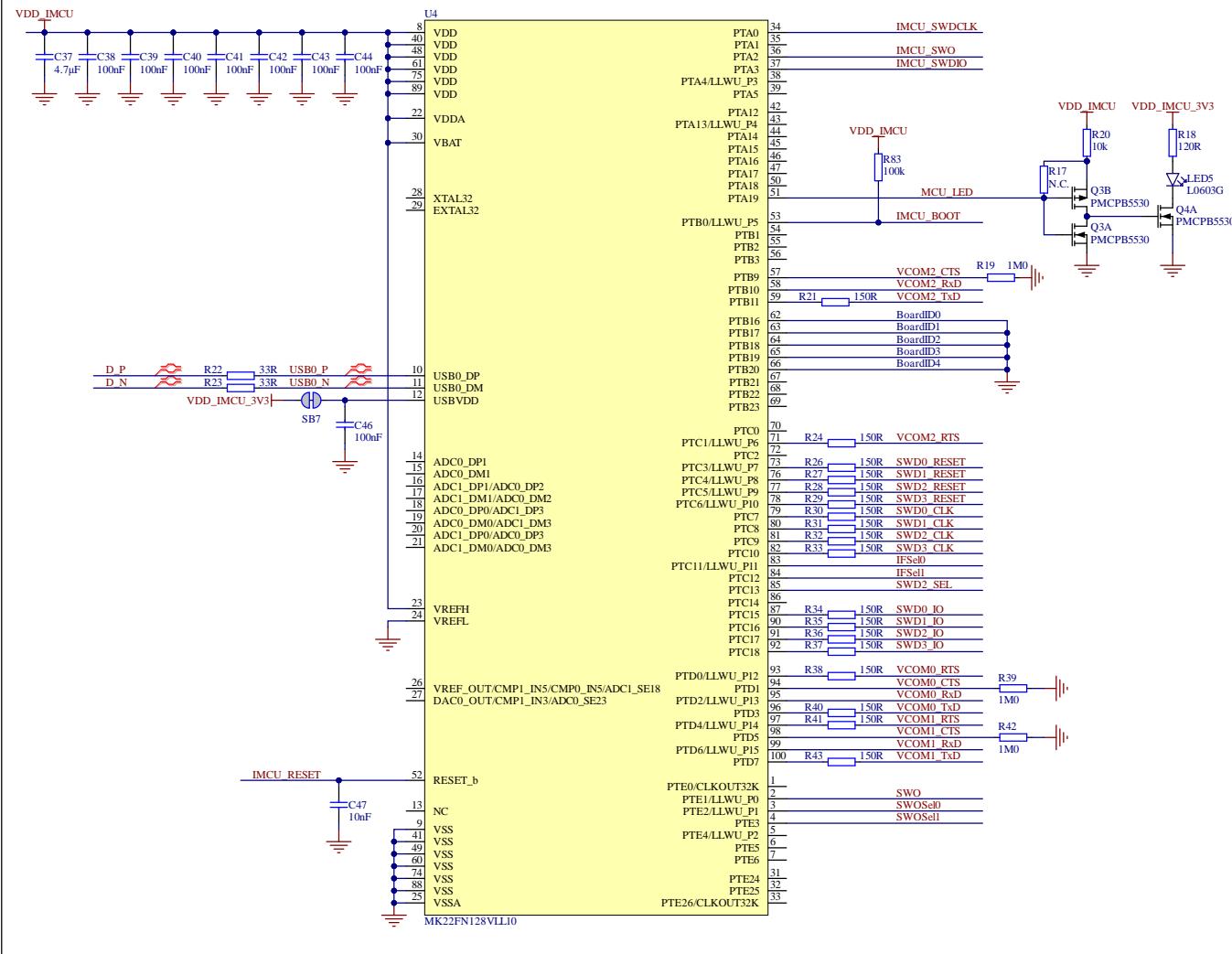
Title <b>nRF52840</b>	PCB Assembly Number <b>PCA10090</b>	Revision <b>1.1.0</b>	 <b>NORDIC</b> SEMICONDUCTOR
Size <b>A3</b>			
Date <b>10/17/2022</b>		Sheet <b>3</b> of <b>8</b>	
File: <b>psa10090_sheet3_nrf52840.SchDoc</b>		Drawn By: <b>RUBR</b>	

1 2 3 4 5 6 7 8

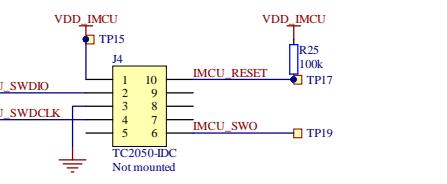
### SWD0/1 SEL reverse drive protection



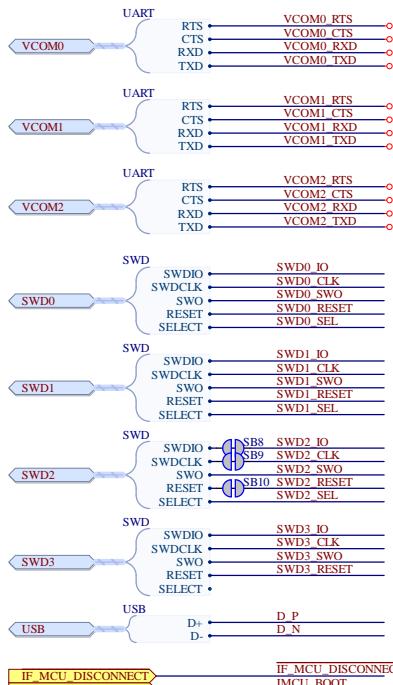
### Interface MCU



### Interface MCU programming connector



C

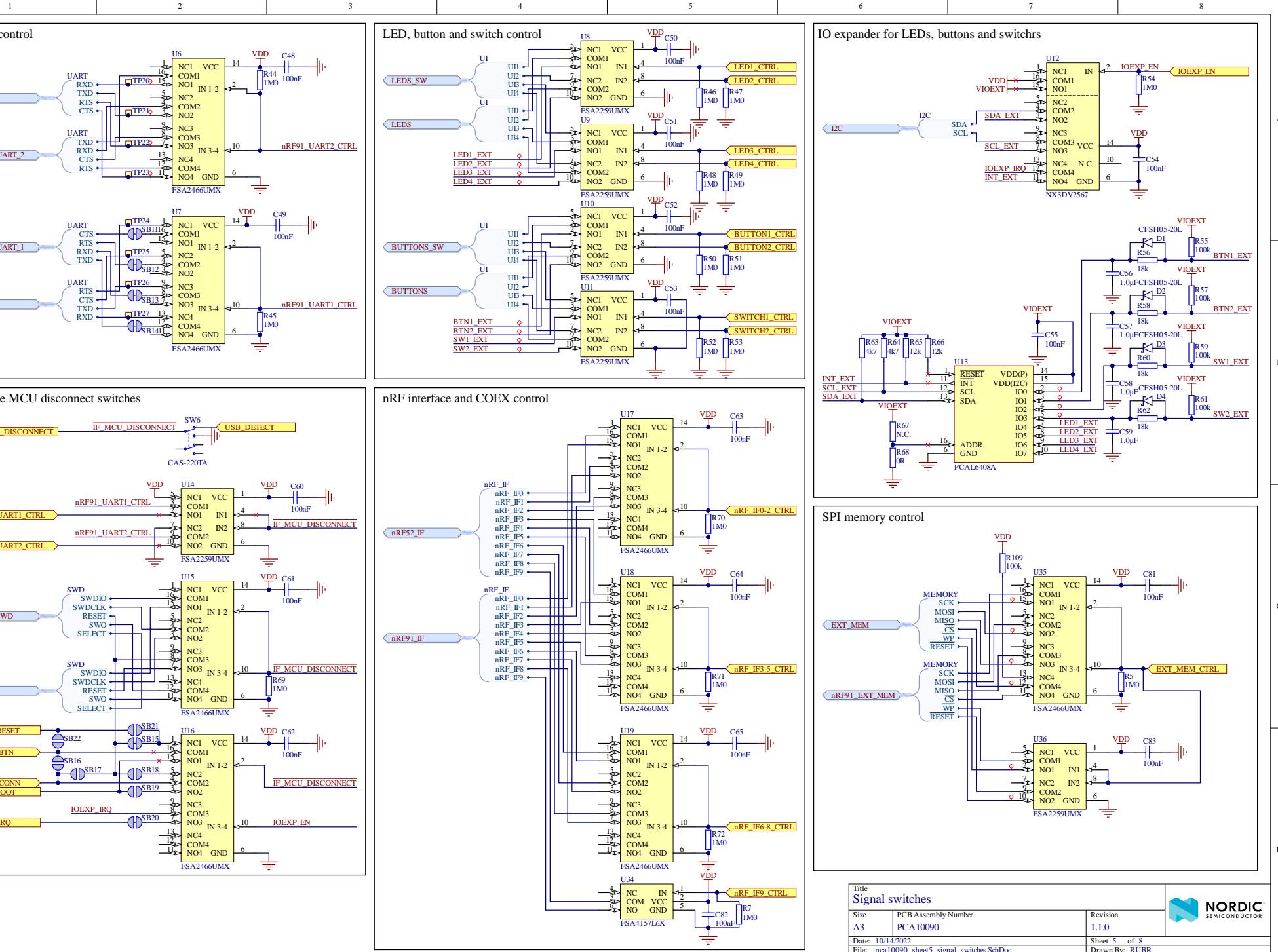


1 2 3 4 5 6 7 8

Title  
**Interface MCU**

Size	PCB Assembly Number	Revision
A3	PCA10090	1.1.0
Date: 11/15/2022	Sheet 4 of 8	
File: pca10090_sheet4_interface_mcu.SchDoc	Drawn By: RUBR	





#### Title: Signal switches

Size A3 PCB Assembly Number PCA10090

Revision 1.1.0

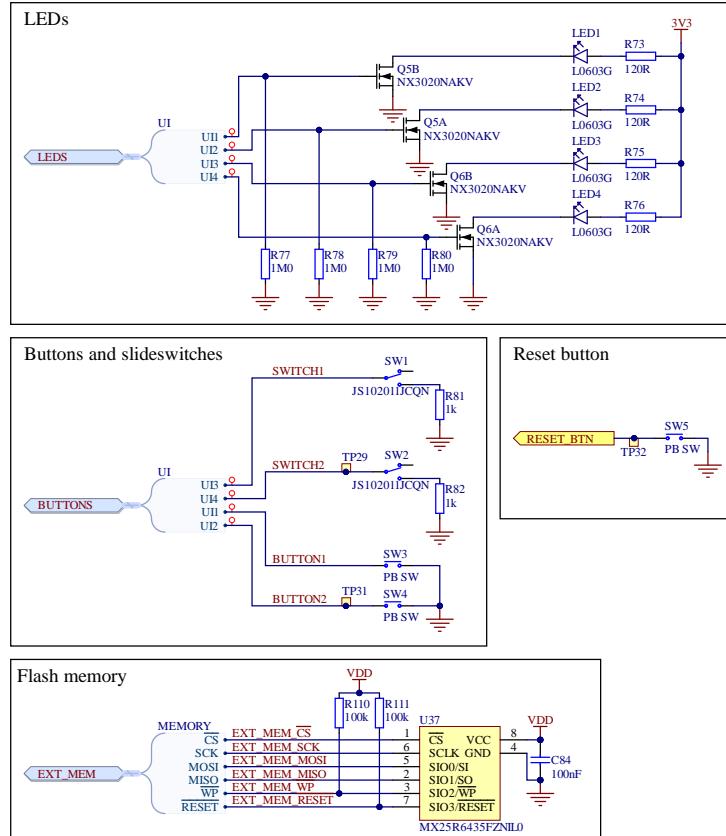
Date: 10/14/2022 Sheet 5 of 8

File: pca10090 sheet 5 signal\_switches.SchDoc

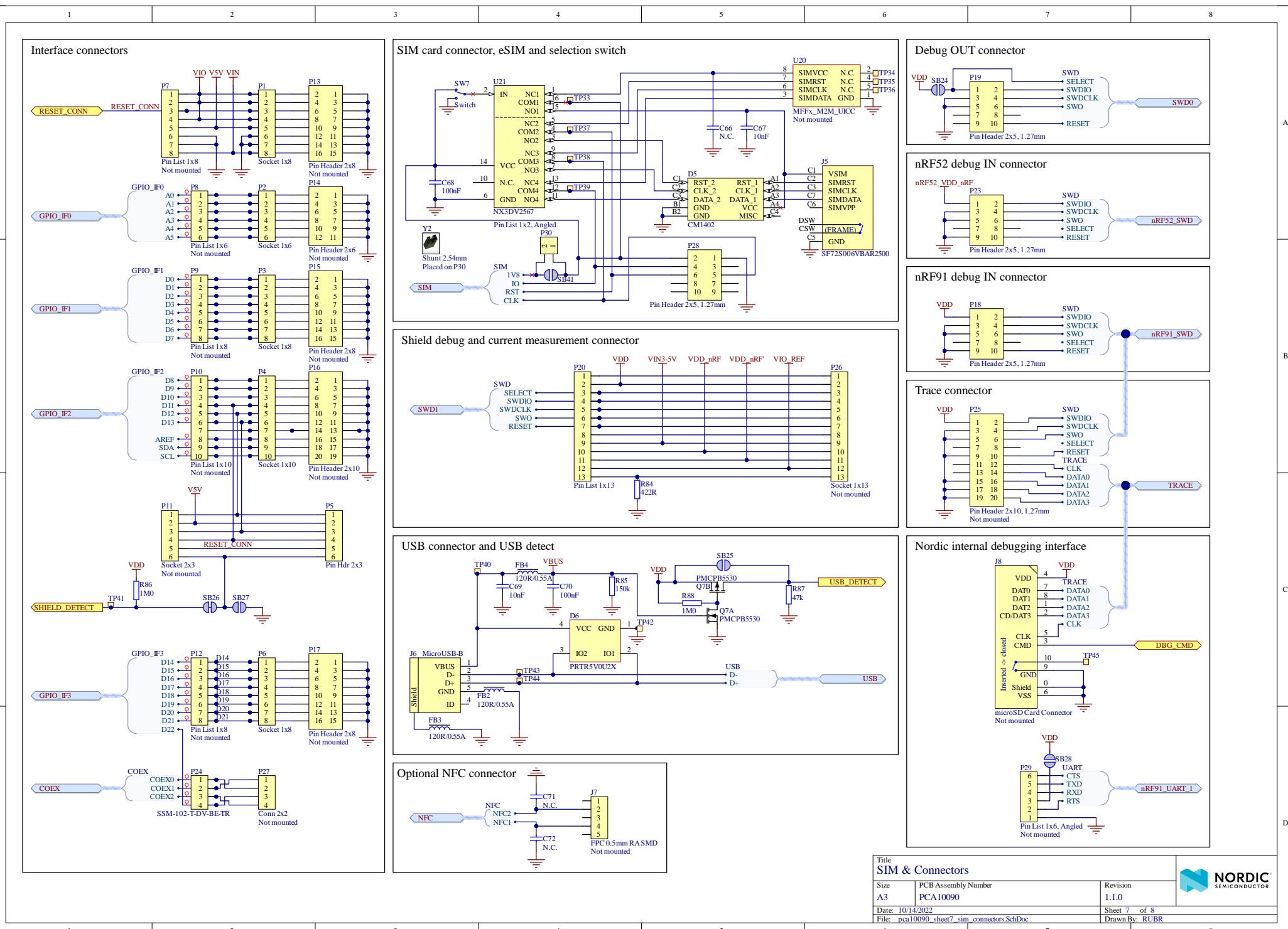


NORDIC SEMICONDUCTOR

Drawn By: RUBR

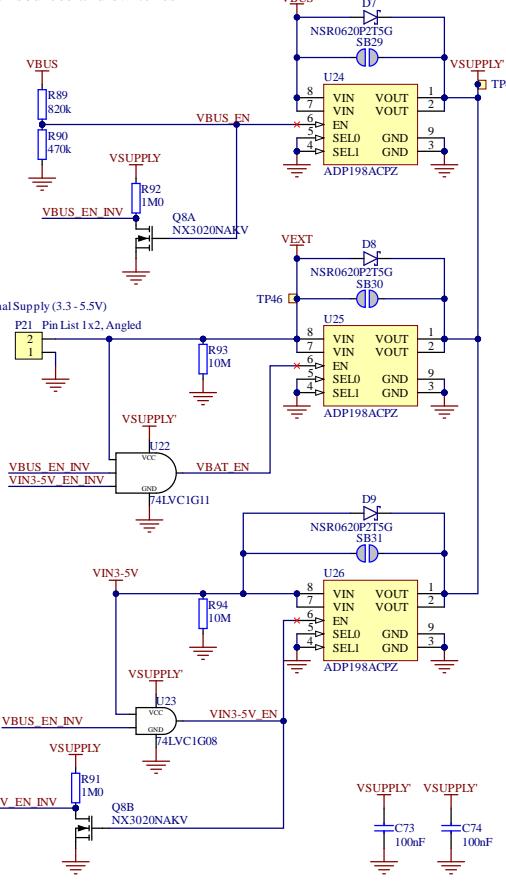


Title Misc		
Size A3	PCB Assembly Number PCA10090	Revision 1.1.0
Date: 10/14/2022	Sheet 6 of 8	Drawn By: RUBR
File: pca10090_sheet6_misc.SchDoc		

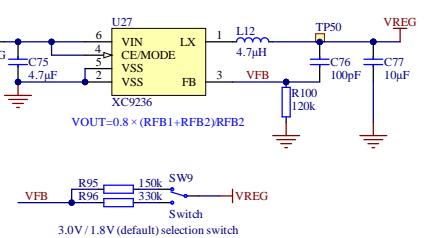


1 2 3 4 5 6 7 8

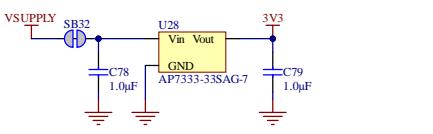
### Power sources and switches



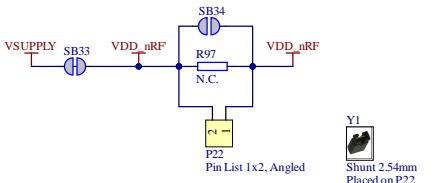
### Buck regulator for VDD



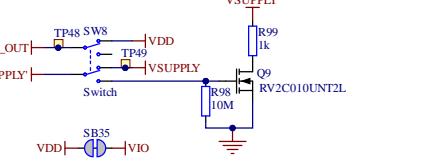
### 3V3 supply



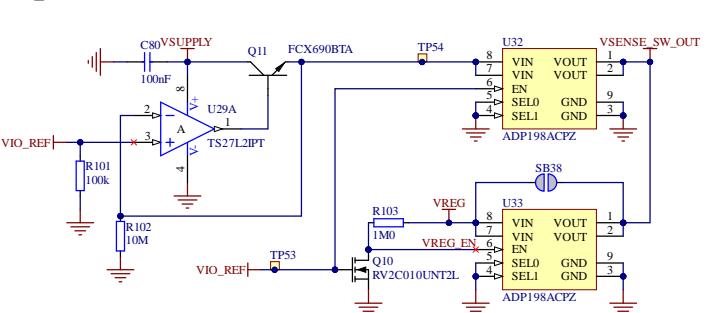
### nRF91 current measurement



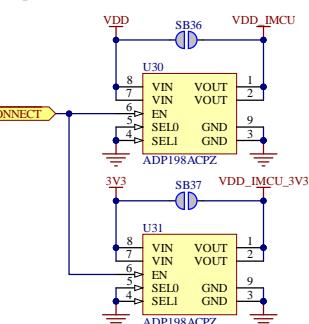
### Power switch



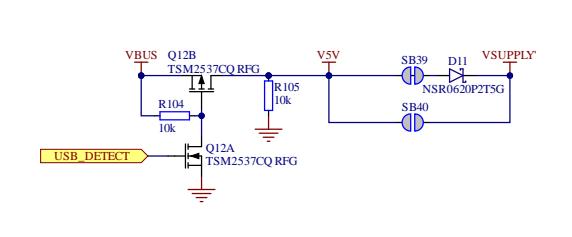
### VIO\_REF sense buffer and switch



### Interface MCU power switch



### VSUPPLY & V5V interface



### Instrument ground



### Title

Power Supply

Size A3

PCB Assembly Number PCA10090

Revision 1.1.0

Date: 10/14/2022

Sheet 8 of 8

File: pca10090\_sheet8\_power\_supply.SchDoc



1 2 3 4 5 6 7 8



400389  
0403RUBR

nRF9160-DK

For evaluation only;  
not FCC approved for resale.

