

A

A

Nordic Semiconductor ASA

nRF52832 Bluetooth Smart/ANT/2.4GHz RF Development Board (PCA10040)

Sheet 1: Cover

Sheet 2: nRF Radio

Sheet 3: Pin Map

Sheet 4: Interface MCU

Sheet 5: Buttons and LEDs

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 reported warnings and/or error violation conditions that are detected when the schematic project is compiled.

Cover			 NORDIC SEMICONDUCTOR
Size	Project Number	Revision	
A3	PCA10040	2.1.1	
Date: 31.05.2021	Sheet 1	of 7	
File: sheet1_cover.SchDoc	Drawn By: KJP/RUBR/GETR		

A

1

B

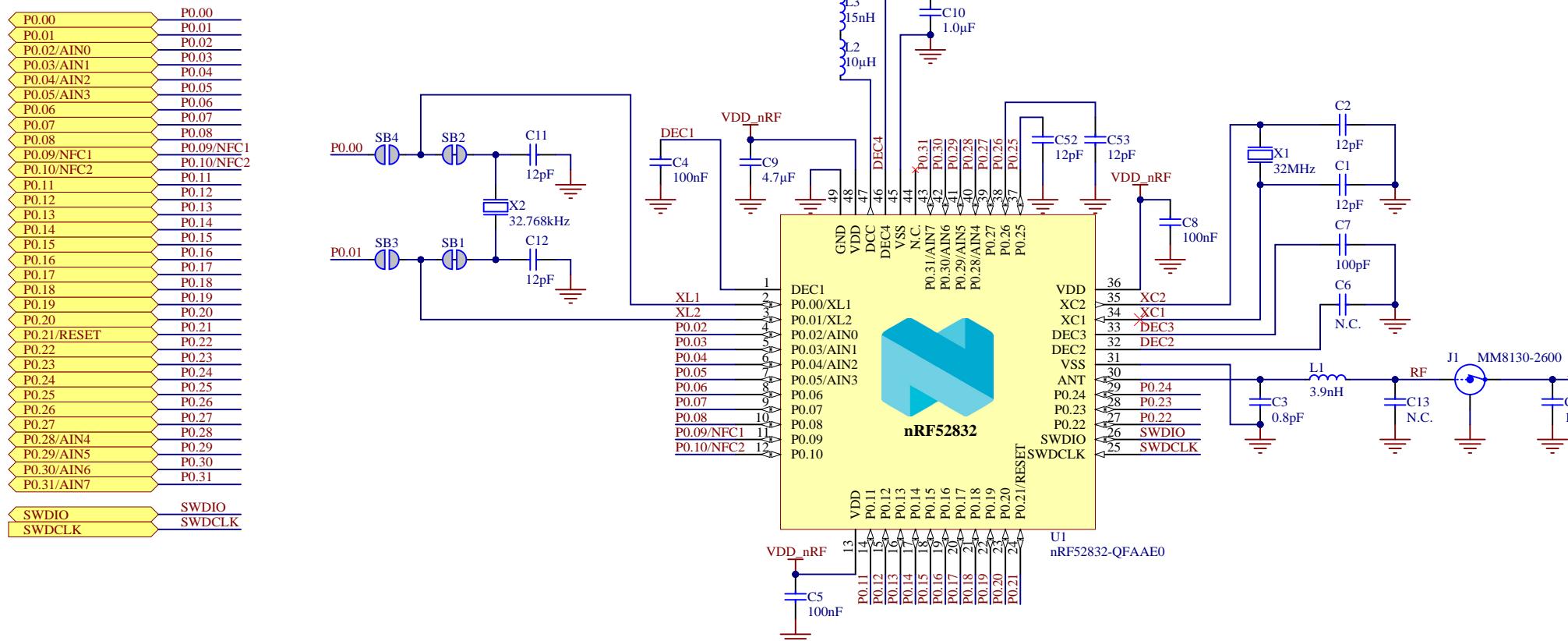
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5

1

10

1



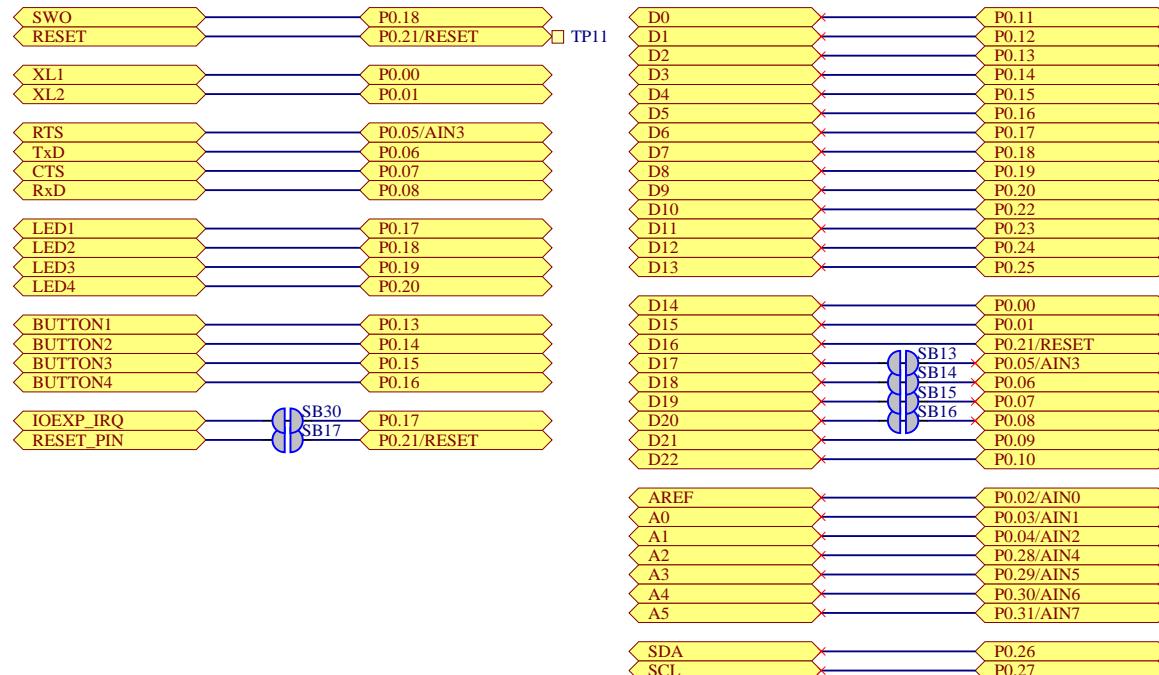
Title nRF Radio

Size A4	Project Number PCA10040	Revision 2.1.1	 NORDIC SEMICONDUCTOR
Date: 31.05.2021		Sheet 2 of 7	
File: sheet2_radio.SchDoc		Drawn By: KJP/RUBR/GETR	

A

A

GPIO pin mapping



B

B

C

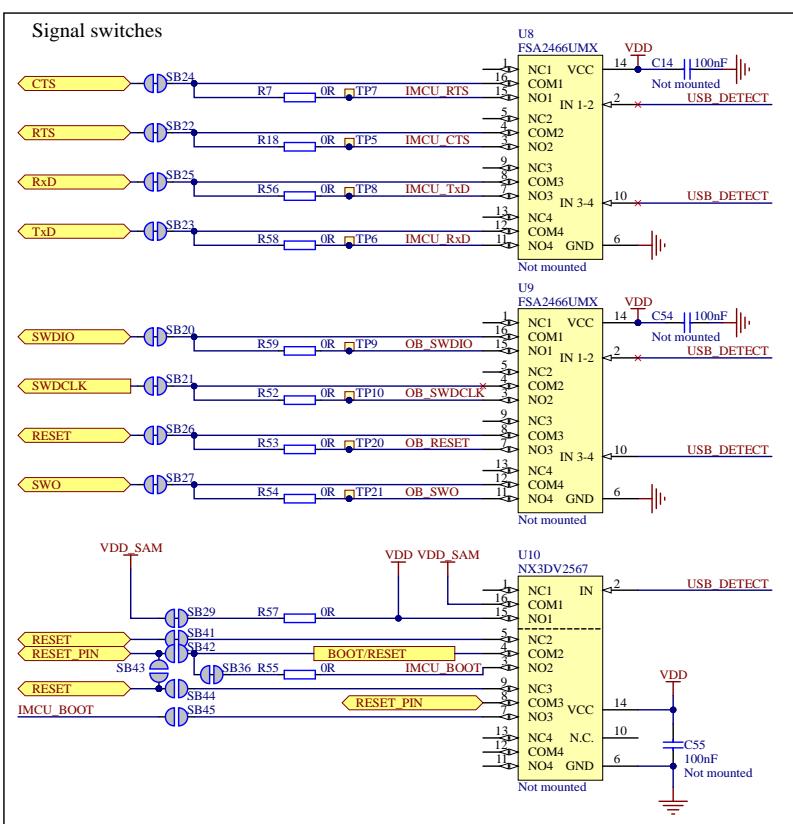
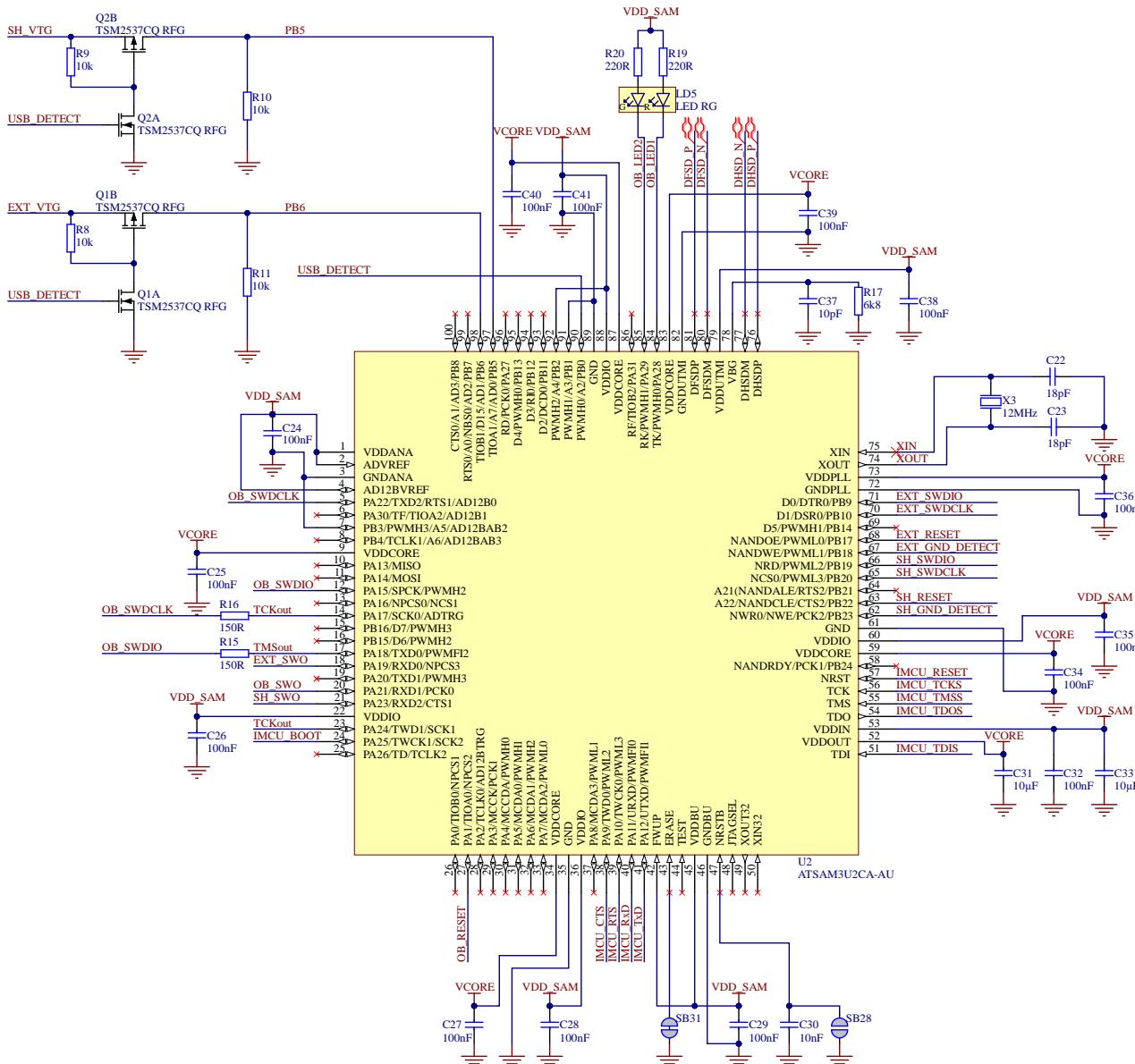
C

D

D

Title
Pin Map

Size A4	Project Number PCA10040	Revision 2.1.1	 NORDIC SEMICONDUCTOR
Date: 31.05.2021	Sheet 3 of 7	File: sheet3_pin_map.SchDoc	



EXT_VTG	EXT_VTG
EXT_SWDIO	EXT_SWDIO
EXT_SWCLK	EXT_SWCLK
EXT_SWO	EXT_SWO
EXT_RESET	EXT_RESET
EXT_GND_DETECT	EXT_GND_DETECT
SH_VTG	SH_VTG
SH_SWDIO	SH_SWDIO
SH_SWCLK	SH_SWCLK
SH_SWO	SH_SWO
SH_RESET	SH_RESET
SH_GND_DETECT	SH_GND_DETECT
DFSD_P	DFSD_P
DFSD_N	DFSD_N
DHSD_P	DHSD_P
DHSD_N	DHSD_N
IMCU_TDIS	IMCU_TDIS
IMCU_TDOS	IMCU_TDOS
IMCU_TMSS	IMCU_TMSS
IMCU_TCKS	IMCU_TCKS
IMCU_RESET	IMCU_RESET
	USB_DETECT

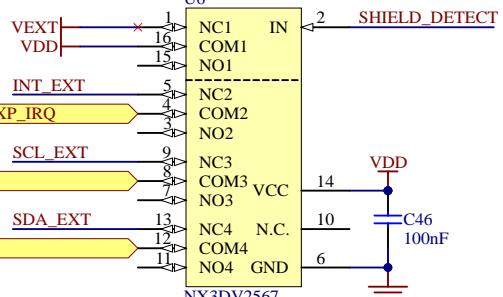
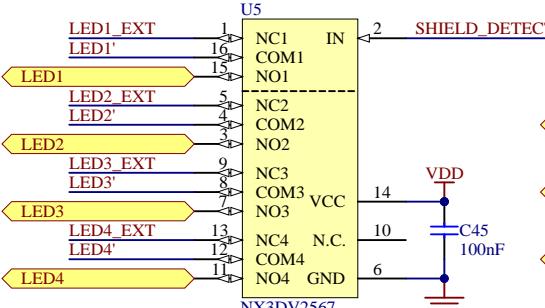
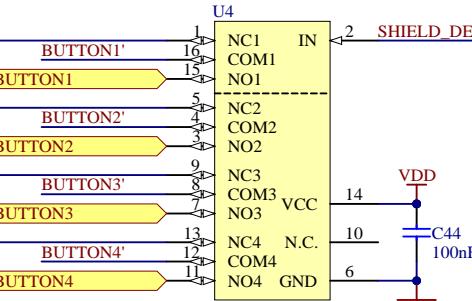
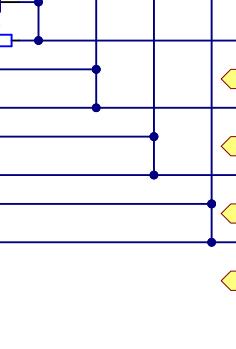
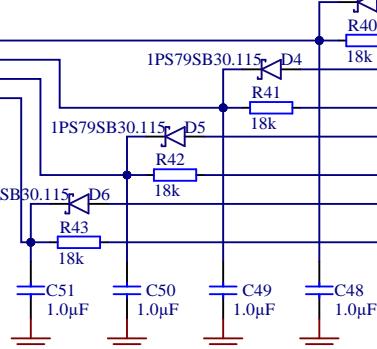
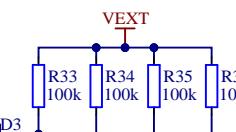
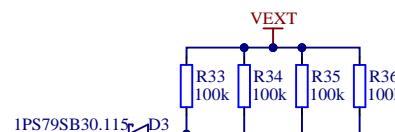
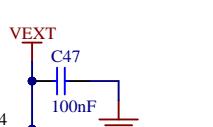
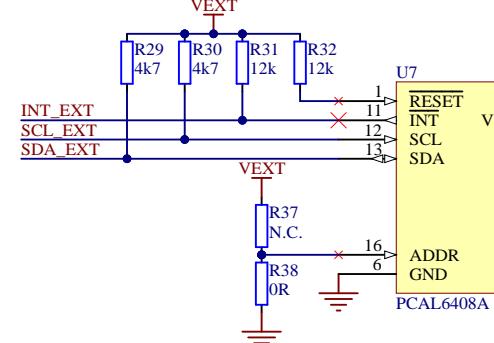
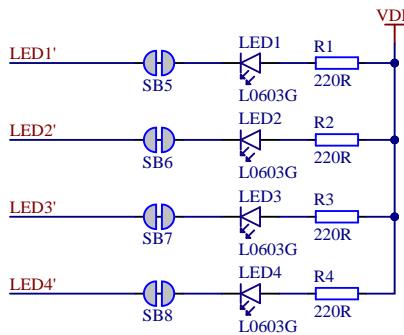
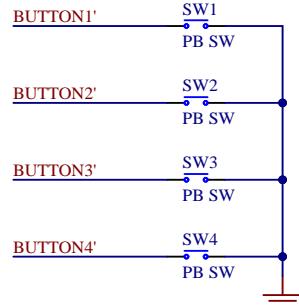
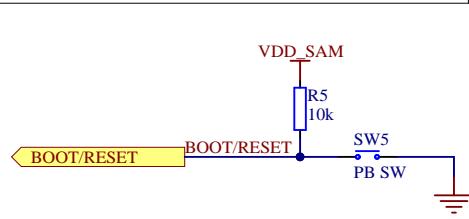
Interface MCU

Interface MCU

Revision 2.1.1



NORDIC
SEMICONDUCTOR



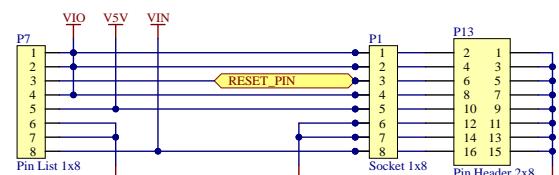
Title

Size A4	Project Number PCA10040	Revision 2.1.1	 NORDIC SEMICONDUCTOR
Date: 31.05.2021		Sheet 5 of 7	
File: sheet5_buttons_and_leds.SchDoc		Drawn By: KJP/RUBR/GETR	

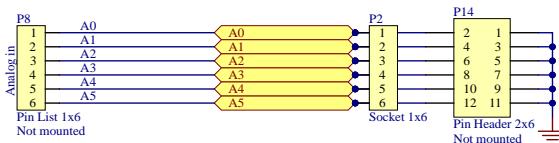


Arduino Interface Connectors

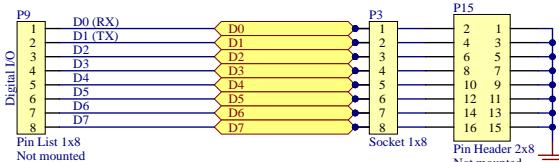
Bottom Connectors



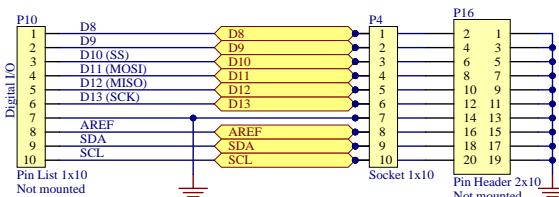
Top connectors



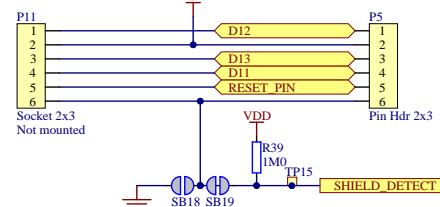
Analog in



Digital I/O

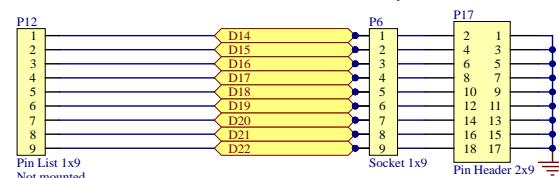


Digital I/O



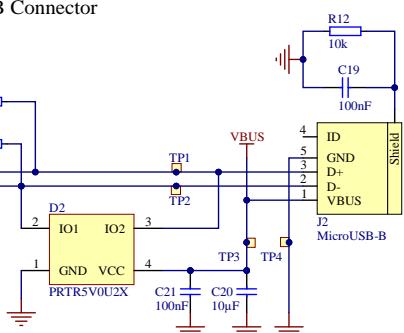
Auxiliary Connectors

Bottom Connectors

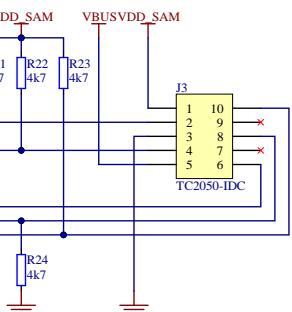


Top connectors

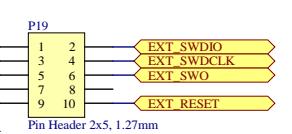
Interface MCU USB Connector



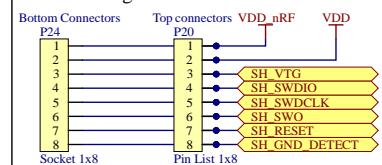
Interface MCU Programming Connector



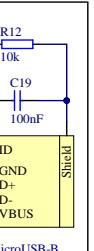
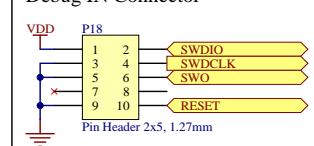
Debug OUT Connector



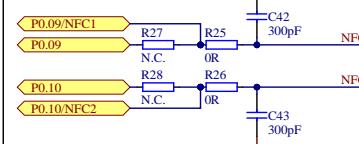
Shield Debug and Current measurement Connector



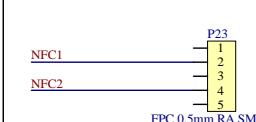
Debug IN Connector



NFC pin configuration



NFCT Antenna Connector



Connectors

Size	Project Number
A3	PCA10040

Revision	2.1.1
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Date: 31.05.2021	Sheet 6 of 7
File: sheet6_connectors.SchDoc	Drawn By: KJP/RUBR/GETR

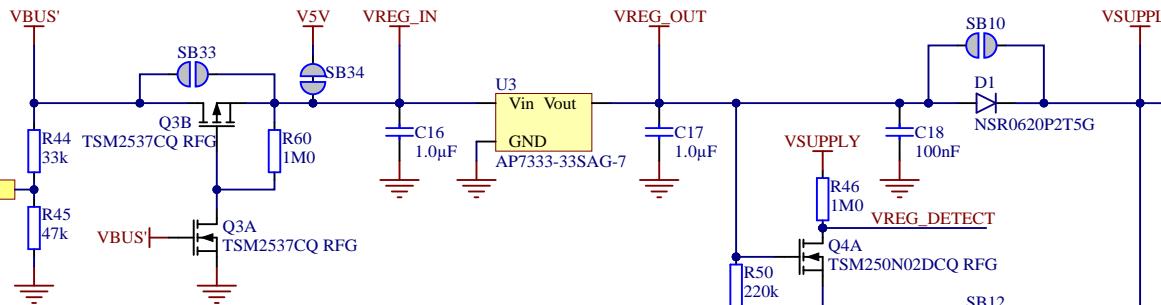


Voltage regulator

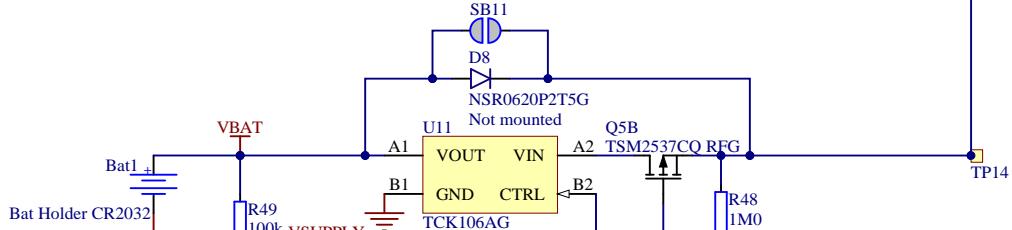
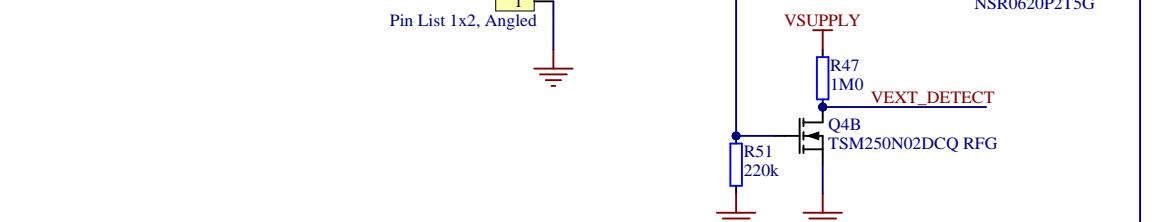
Reverse voltage protection

Power switch

nRF current measurement Instrument ground



Pin List 1x2, Angled



Title
Power Supply

Size A4	Project Number PCA10040	Revision 2.1.1	NORDIC SEMICONDUCTOR
Date: 31.05.2021	Sheet 7 of 7		
File: sheet7_power_supply.SchDoc		Drawn By: KJP/RUBR/GETR	

