

Nordic Semiconductor ASA

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

Sheet 1:
Sheet 2:
Sheet 3:
Sheet 4:
Sheet 5:
Sheet 6:

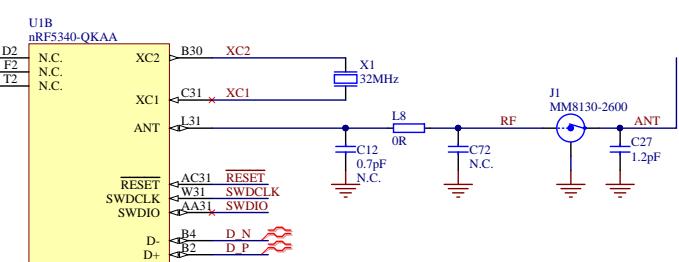
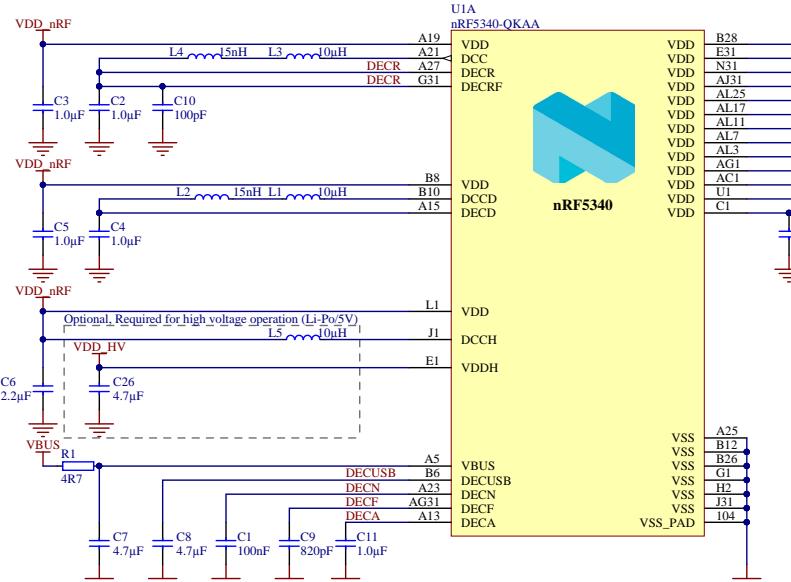
Cover
nRF Radio
Interface MCU
Miscellaneous
Connectors
Power Supply

 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.

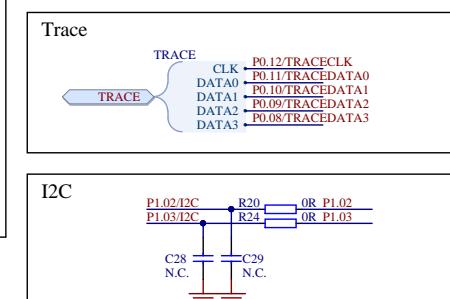
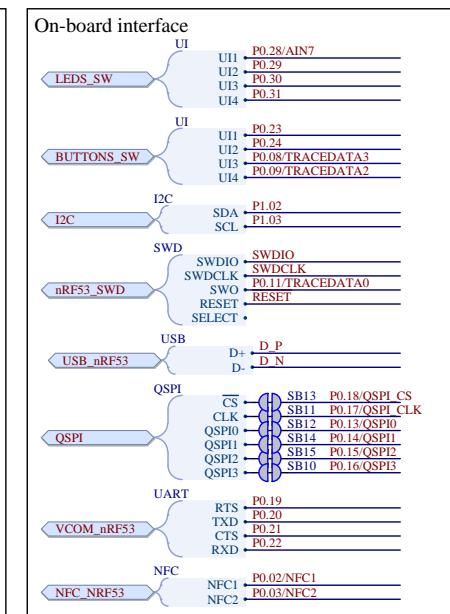
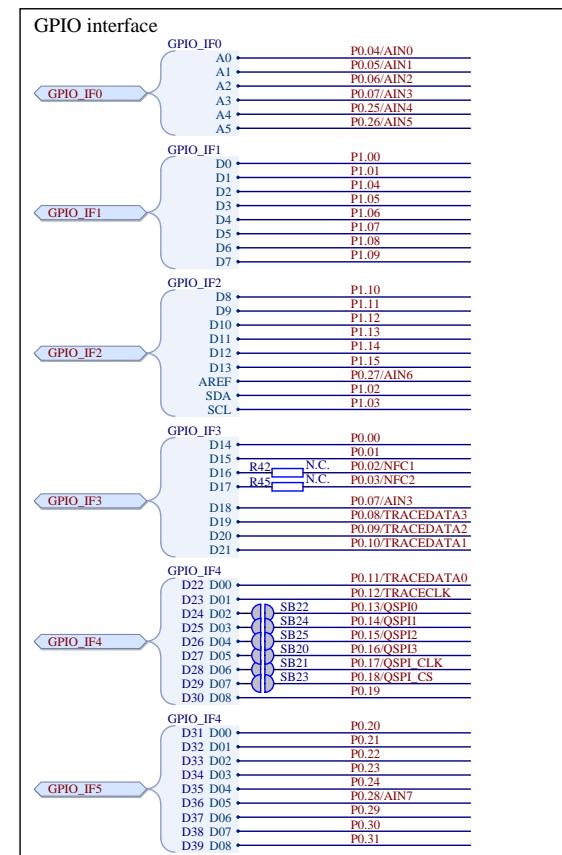
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PCA10095 - Cover

Size	Project Number	Revision	
A3	4465	0.8.0	
Date: 12.09.2019	Sheet 1 of 6		
File: pca10095_sheet1_cover.SchDoc	Drawn By: GETR		



U1C nRF5340-QKAA	
P0.00/XL1	N1 P0.00/XL1
P0.01/XL2	X1 P0.01/XL2
P0.02/NFC1	X1 P0.02/NFC1
P0.03/NFC2	X1 P0.03/NFC2
P0.04/AIN0	X2 P0.04/AIN0
P0.05/AIN1	X2 P0.05/AIN1
P0.06/AIN2	X2 P0.06/AIN2
P0.07/AIN3	X2 P0.07/AIN3
P0.08/TRACEDATA[3]	X2 P0.08/TRACEDATA3
P0.09/TRACEDATA[2]	X1 P0.09/TRACEDATA2
P0.10/TRACEDATA[1]	X2 P0.10/TRACEDATA1
P0.11/TRACEDATA[0]	X4 P0.11/TRACEDATA0
P0.12/TRACECLK	X4 P0.12/TRACECLK
P0.13/QSPI[0]	X5 P0.13/QSPI0
P0.14/QSPI[1]	X8 P0.14/QSPI1
P0.15/QSPI[2]	X10 P0.15/QSPI2
P0.16/QSPI[3]	X9 P0.16/QSPI3
P0.17/QSPI_CLK	X12 P0.17/QSPI_CLK
P0.18/QSPI_CS	X14 P0.18/QSPI_CS
P0.19	X13 P0.19
P0.20	X16 P0.20
P0.21	X15 P0.21
P0.22	X18 P0.22
P0.23	X27 P0.23
P0.24	X28 P0.24
P0.25/AIN4	X28 P0.25/AIN4
P0.26/AIN5	X29 P0.26/AIN5
P0.27/AIN6	X30 P0.27/AIN6
P0.28/AIN7	X31 P0.28/AIN7
P0.29	B24 P0.29
P0.30	B22 P0.30
P0.31	B22 P0.31

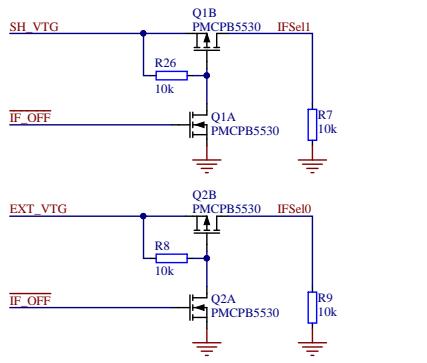


PCA10095 - nRF5340 MCU

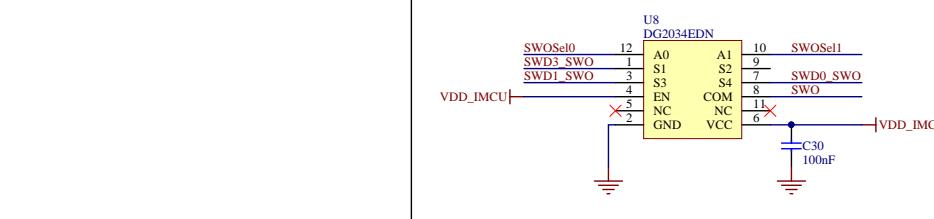
Size	Project Number
A3	4465
	Revision
	0.8.0
Date:	12.09.2019
File:	pea10095_sheet2_nrf5340_mcu.SchDoc

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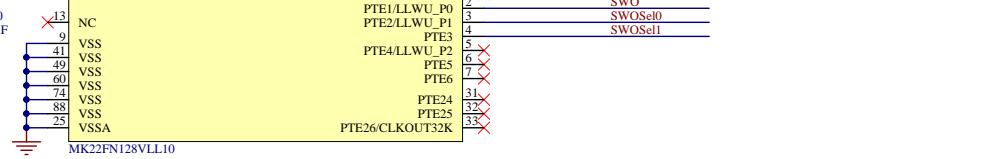
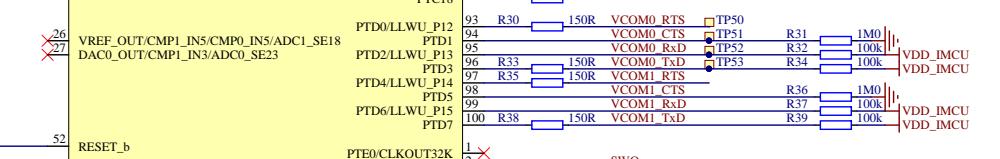
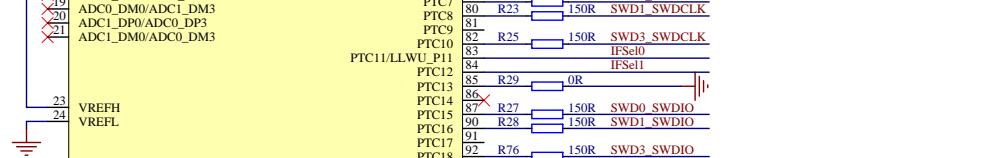
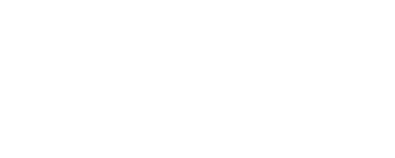
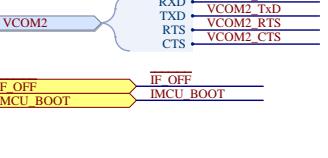
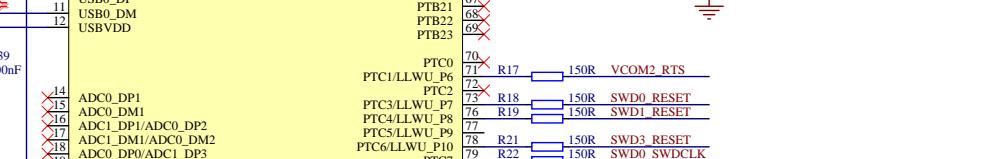
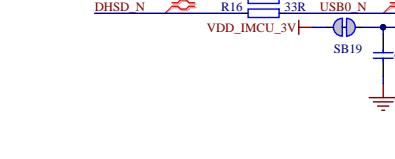
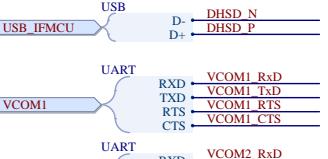
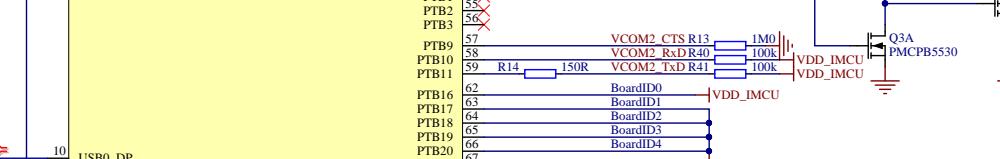
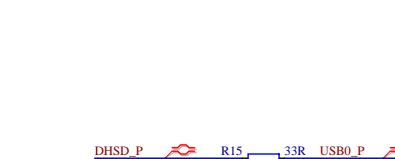
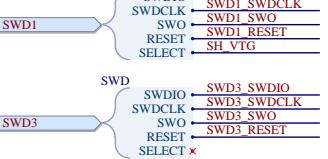
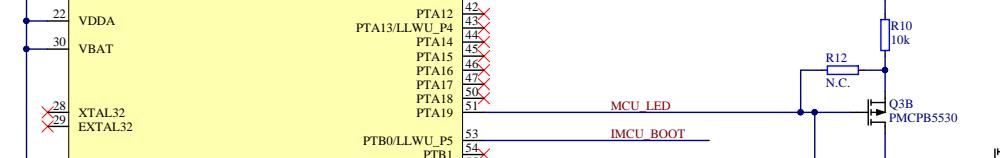
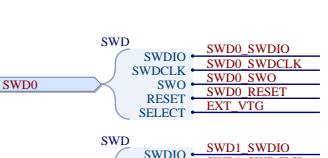
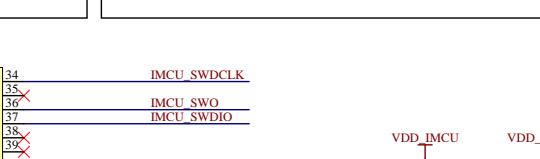
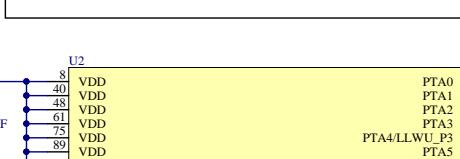
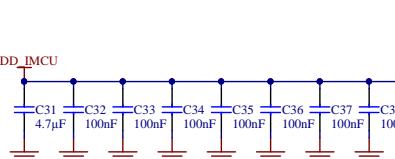
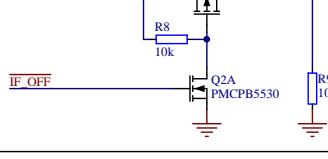
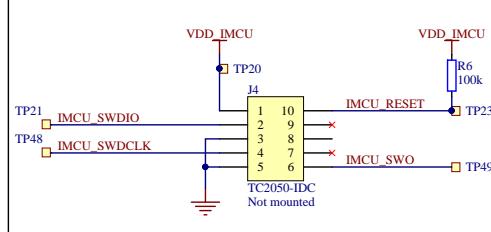
IF SEL reverse drive protection



MUX



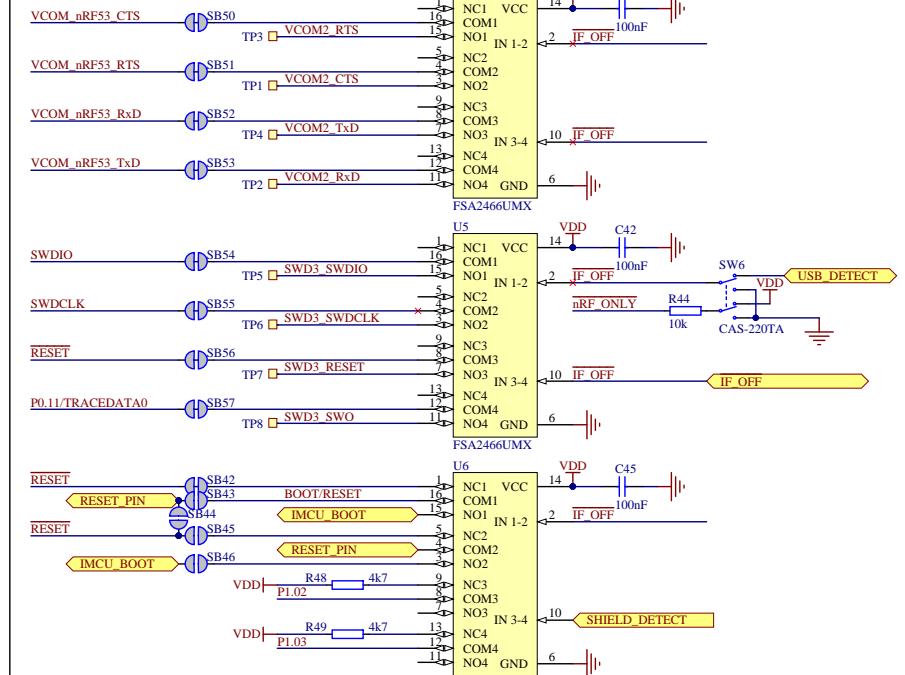
Interface MCU Programming Connector



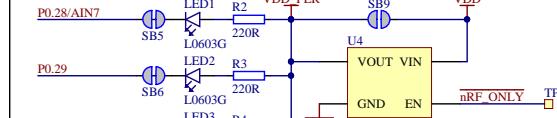
PCA10095 - Interface MCU

Size	Project Number	Revision
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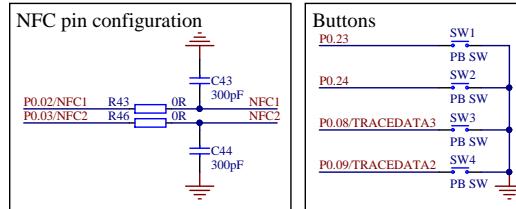
Signal switches



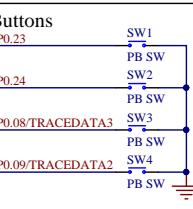
LEDs



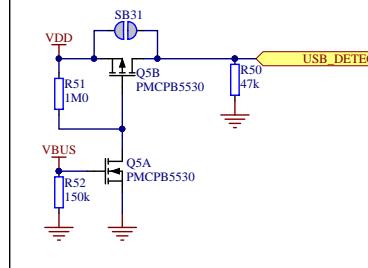
NFC pin configuration



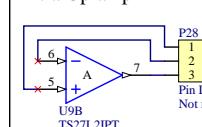
Buttons



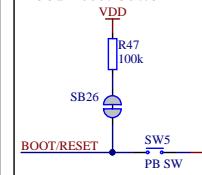
USB detect switch



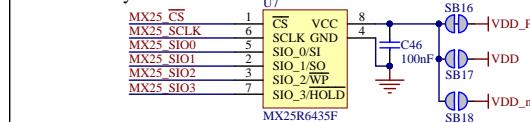
Extra Op-amp



Boot/Reset button



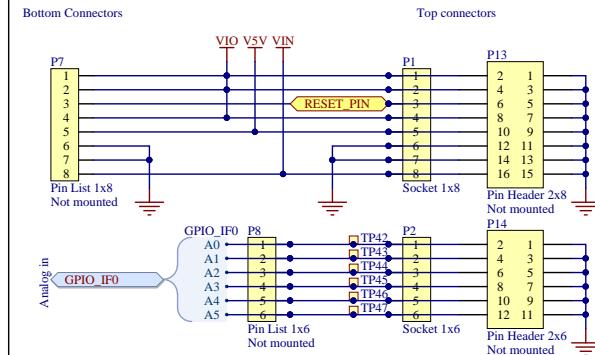
Flash memory



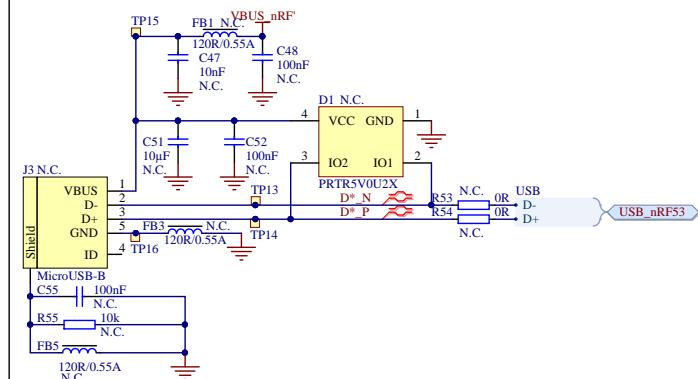
PCA10095 - Miscellaneous

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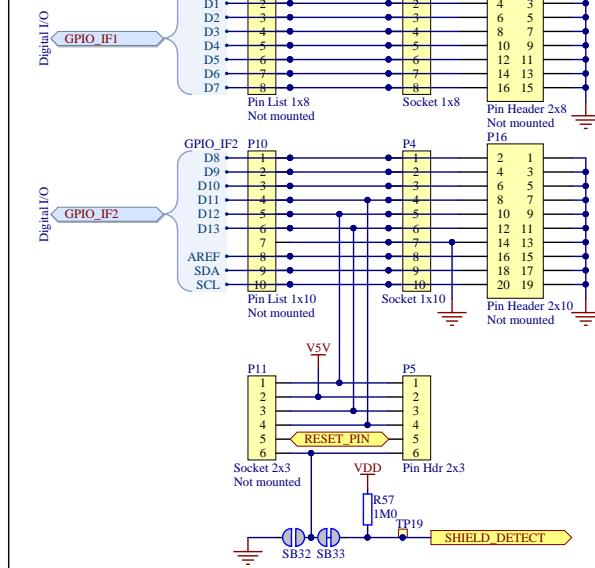
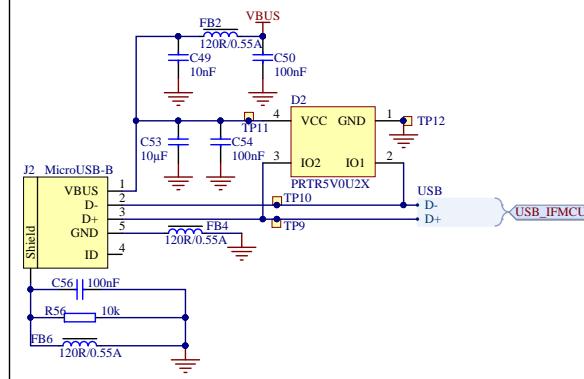
Arduino Interface Connectors



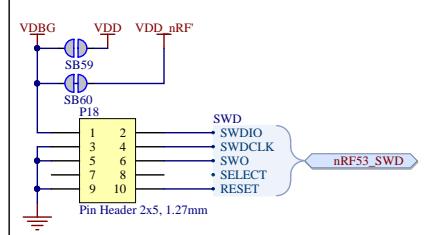
nRF USB Connector



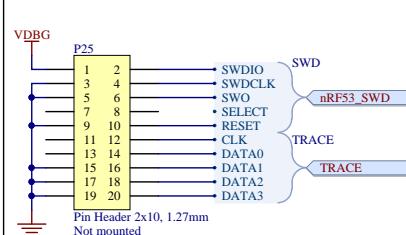
Interface MCU USB Connector



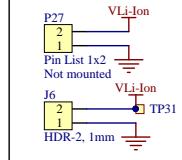
Debug IN Connector



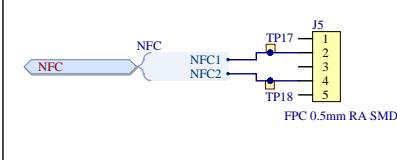
Trace connector



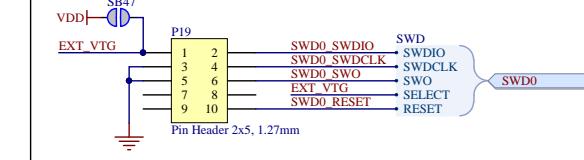
Li-ion connector



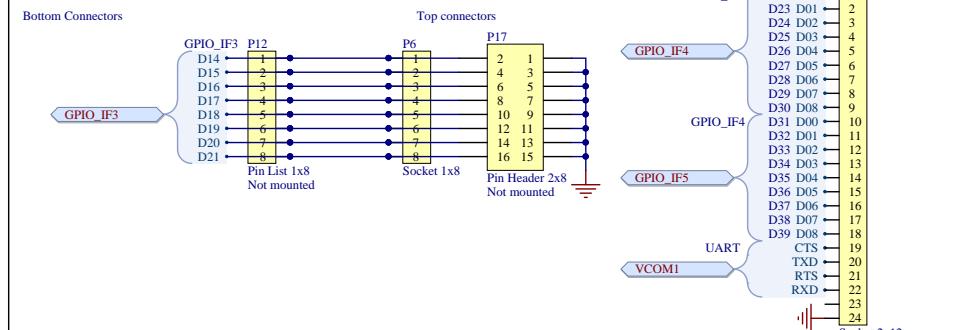
NFC Antenna Connector



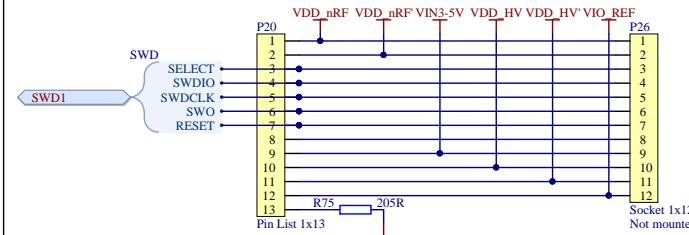
Debug OUT Connector



Auxiliary Connectors



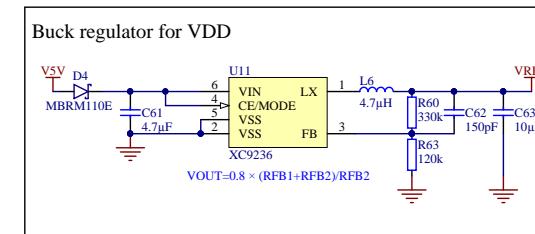
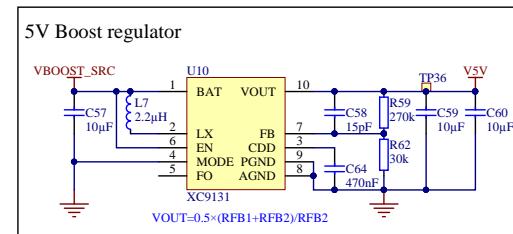
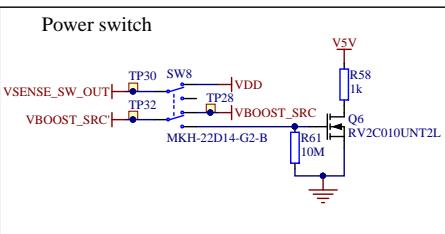
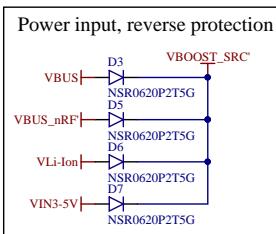
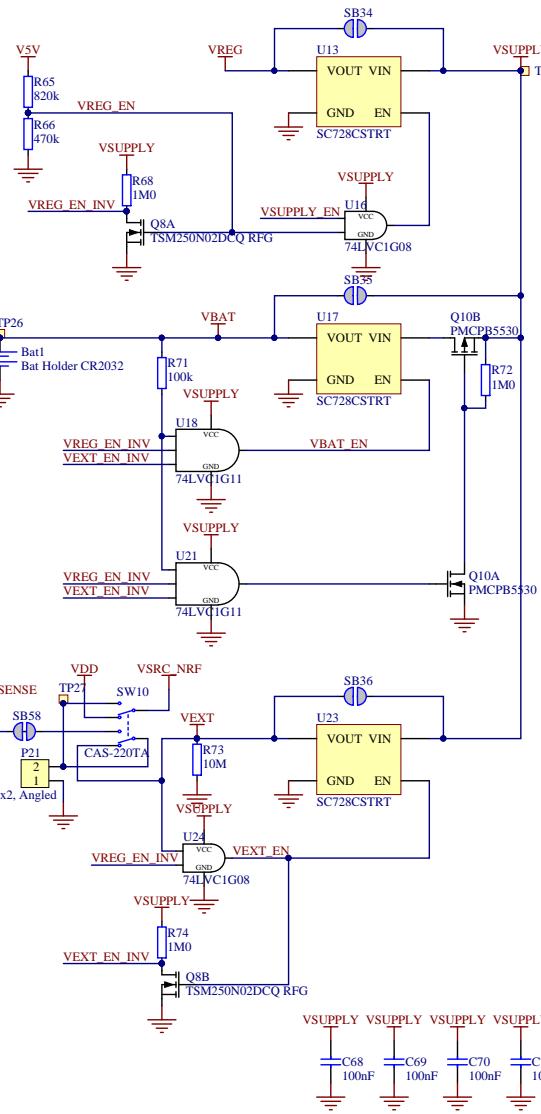
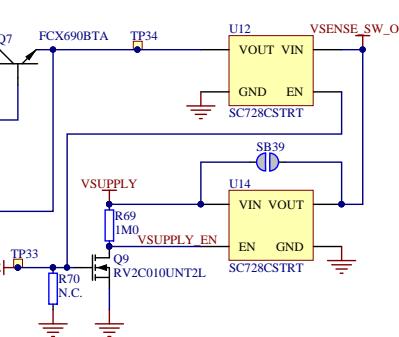
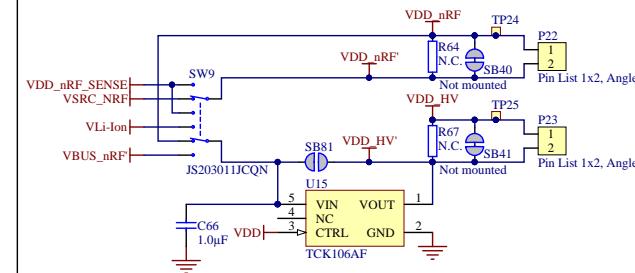
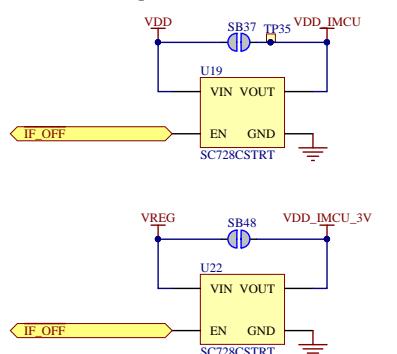
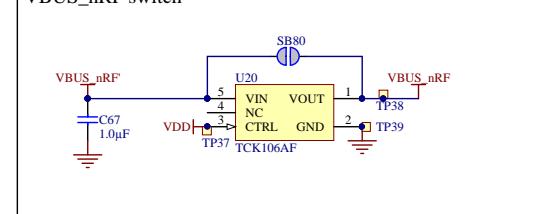
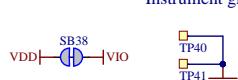
Shield Debug and Current measurement Connector



PCA10095 - Connectors

Size	Project Number	Revision
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Date: 29.08.2019		Sheet 5 of 6
File: pca10095_sheet5_connectors.SchDoc		Drawn By: GETR



**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****PCA10095 - Power Supply**

Size	Project Number	Revision
A3	4465	0.8.0
Date:	09.09.2019	Sheet 6 of 6
File:	pea10095_sheet6_power_supply.SchDoc	Drawn By: GETR

