

# Nordic Semiconductor ASA

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

Sheet 1: nRF Radio

Sheet 2: Interface MCU

Sheet 3: Buttons and LEDs

Sheet 4: Connectors

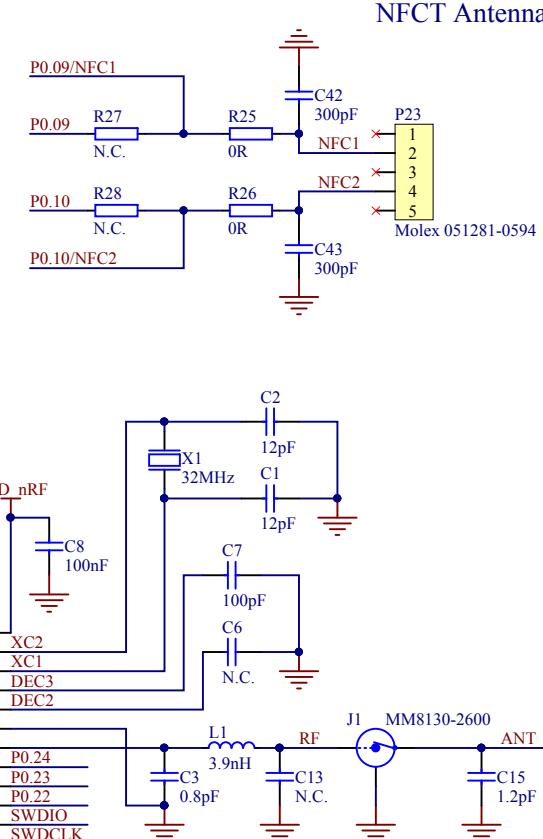
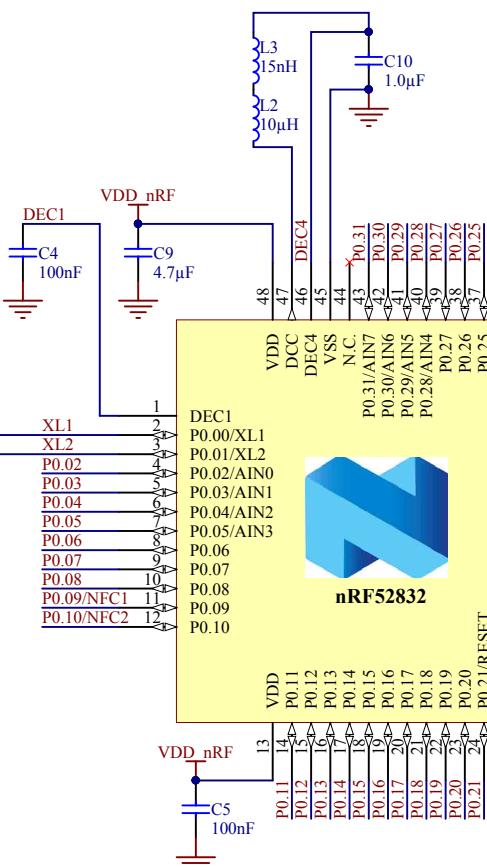
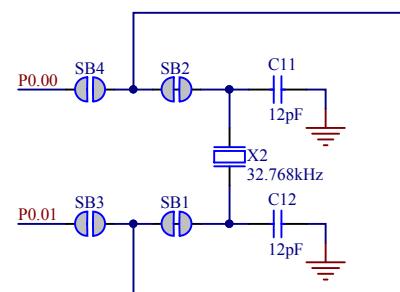
Sheet 5: Power Supply



PCA10040 - Cover		
Size	Project Number	Revision
A3	4397	0.9.0
Date:	8/26/2015	Sheet 0 of 5
File:	pca10040_sheet0_cover.SchDoc	Drawn By: KJP

[1,4] P0.00 P0.00  
[1,4] P0.01 P0.01  
[1,4] P0.02 P0.02  
[1,4] P0.03 P0.03  
[1,4] P0.04 P0.04  
[1,2,4] P0.05 P0.05  
[1,2,4] P0.06 P0.06  
[1,2,4] P0.07 P0.07  
[1,2,4] P0.08 P0.08  
[1,4] P0.09 P0.09  
[1,4] P0.10 P0.10  
[1,4] P0.11 P0.11  
[1,4] P0.12 P0.12  
[1,3,4] P0.13 P0.13  
[1,3,4] P0.14 P0.14  
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[1,3,4] P0.16 P0.16  
[1,3,4] P0.17 P0.17  
[1,2,3,4] P0.18 P0.18  
[1,3,4] P0.19 P0.19  
[1,3,4] P0.20 P0.20  
[1,2,4] P0.21 P0.21  
[1,4] P0.22 P0.22  
[1,4] P0.23 P0.23  
[1,4] P0.24 P0.24  
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[1,3,4] P0.26 P0.26  
[1,3,4] P0.27 P0.27  
[1,4] P0.28 P0.28  
[1,4] P0.29 P0.29  
[1,4] P0.30 P0.30  
[1,4] P0.31 P0.31

[1,2,4] SWDIO  
[1,2,4] SWDCLK



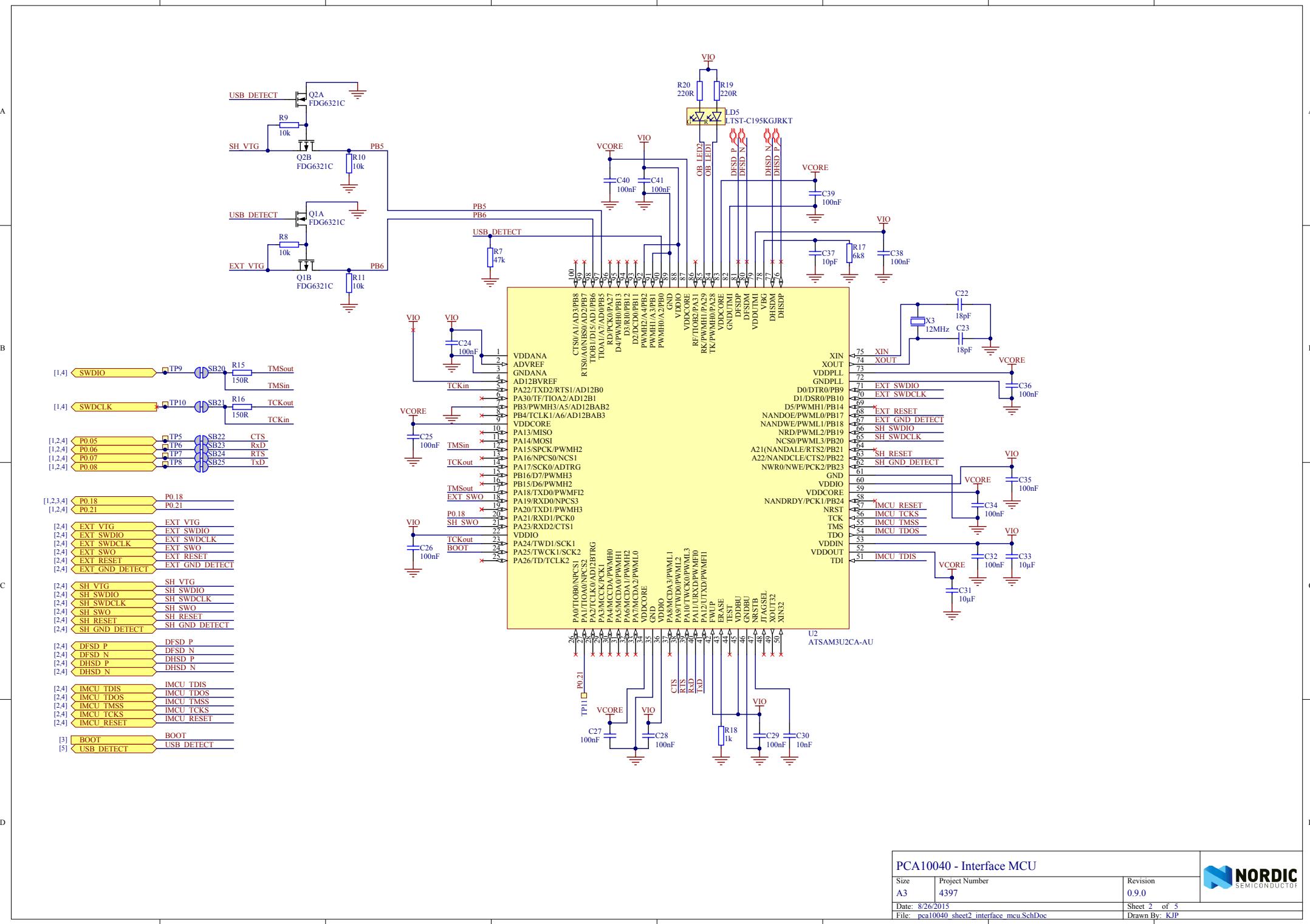
Title  
PCA10040 - nRF Radio

Size  
A4  
Project Number  
4397

Revision  
0.9.0  
Sheet 1 of 5

Date: 8/26/2015  
File: pca10040\_sheet1\_radio.SchDoc





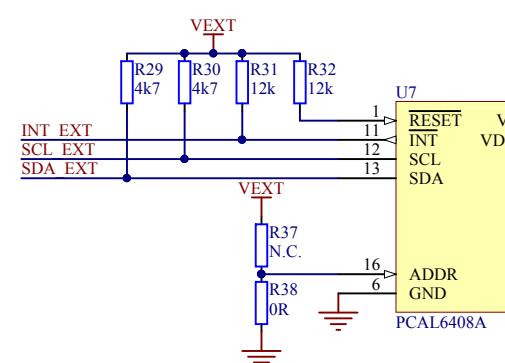
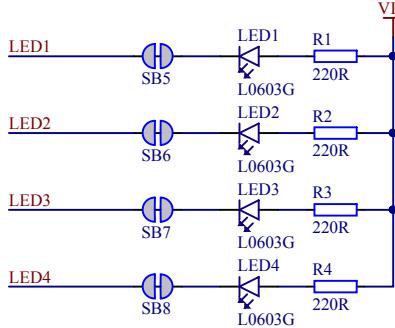
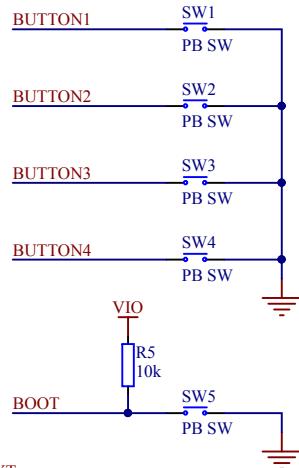
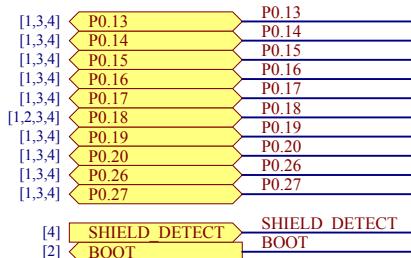
1

2

3

4

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### Arduino Interface Connectors

#### Bottom Connectors

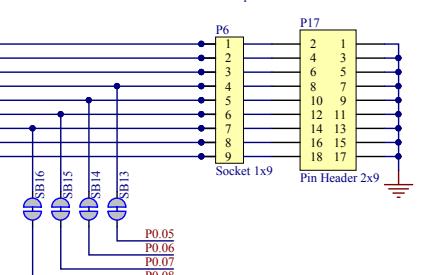
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[1..4]	P0.04	P0.04
[1..2..4]	P0.05	P0.05
[1..2..4]	P0.06	P0.06
[1..2..4]	P0.07	P0.07
[1..2..4]	P0.08	P0.08
[1..4]	P0.09	P0.09
[1..4]	P0.10	P0.10
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[1..4]	P0.12	P0.12
[1..3..4]	P0.13	P0.13
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[1..3..4]	P0.15	P0.15
[1..3..4]	P0.16	P0.16
[1..3..4]	P0.17	P0.17
[1..2..3..4]	P0.18	P0.18
[1..3..4]	P0.19	P0.19
[1..3..4]	P0.20	P0.20
[1..2..4]	P0.21	P0.21
[1..4]	P0.22	P0.22
[1..4]	P0.23	P0.23
[1..4]	P0.24	P0.24
[1..4]	P0.25	P0.25
[1..4]	P0.26	P0.26
[1..3..4]	P0.27	P0.27
[1..4]	P0.28	P0.28
[1..4]	P0.29	P0.29
[1..4]	P0.30	P0.30
[1..4]	P0.31	P0.31
[2..4]	EXT_VTG	EXT_VTG
[2..4]	EXT_SWDIO	EXT_SWDIO
[2..4]	EXT_SWDCLK	EXT_SWDCLK
[2..4]	EXT_SWO	EXT_SWO
[2..4]	EXT_RESET	EXT_RESET
[2..4]	EXT_GND_DETECT	EXT_GND_DETECT
[2..4]	SH_VTG	SH_VTG
[2..4]	SH_SWDIO	SH_SWDIO
[2..4]	SH_SWDCLK	SH_SWDCLK
[2..4]	SH_SWO	SH_SWO
[2..4]	SH_RESET	SH_RESET
[2..4]	SH_GND_DETECT	SH_GND_DETECT
[2..4]	DFSD_P	DFSD_P
[2..4]	DFSD_N	DFSD_N
[2..4]	DHSD_P	DHSD_P
[2..4]	DHSD_N	DHSD_N
[2..4]	IMCU_TDIS	IMCU_TDIS
[2..4]	IMCU_TDOS	IMCU_TDOS
[2..4]	IMCU_TMSS	IMCU_TMSS
[2..4]	IMCU_TCKS	IMCU_TCKS
[2..4]	IMCU_RESET	IMCU_RESET
[1..2..4]	SWDIO	SWDIO
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[3]	SHIELD_DETECT	SHIELD_DETECT

#### Auxiliary Connectors

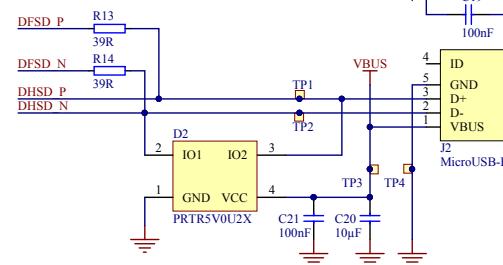
##### Bottom Connectors

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	P0.21	P0.21
	P0.05_C	P0.05_C
	P0.06_C	P0.06_C
	P0.07_C	P0.07_C
	P0.08_C	P0.08_C
	P0.09	P0.09
	P0.10	P0.10
	P0.05	P0.05
	P0.06	P0.06
	P0.07	P0.07
	P0.08	P0.08

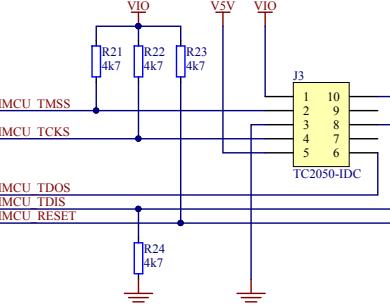
##### Top connectors



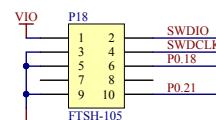
### USB Connector



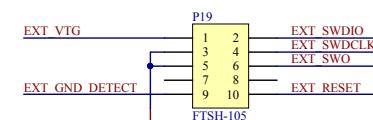
### J-Link Prog Connector



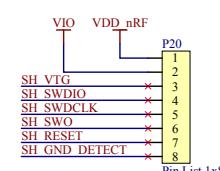
### Debug IN Connector



### Debug OUT Connector



### Shield Debug and Current measurement Connector



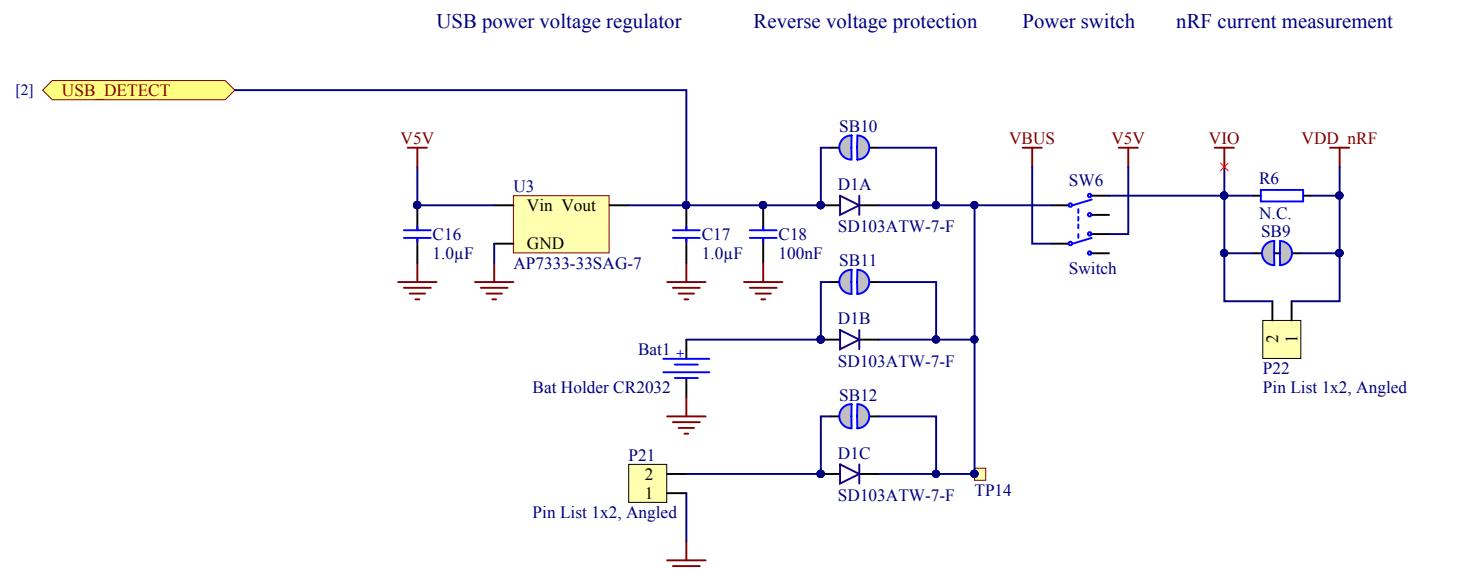
### PCA10040 - Connectors

Size	Project Number	Revision
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Date:	8/26/2015	Sheet 4 of 5
File:	pea10040_sheet4_connectors.SchDoc	Drawn By: KJP

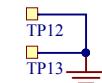
**NORDIC**  
SEMICONDUCTOR

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Instrument ground

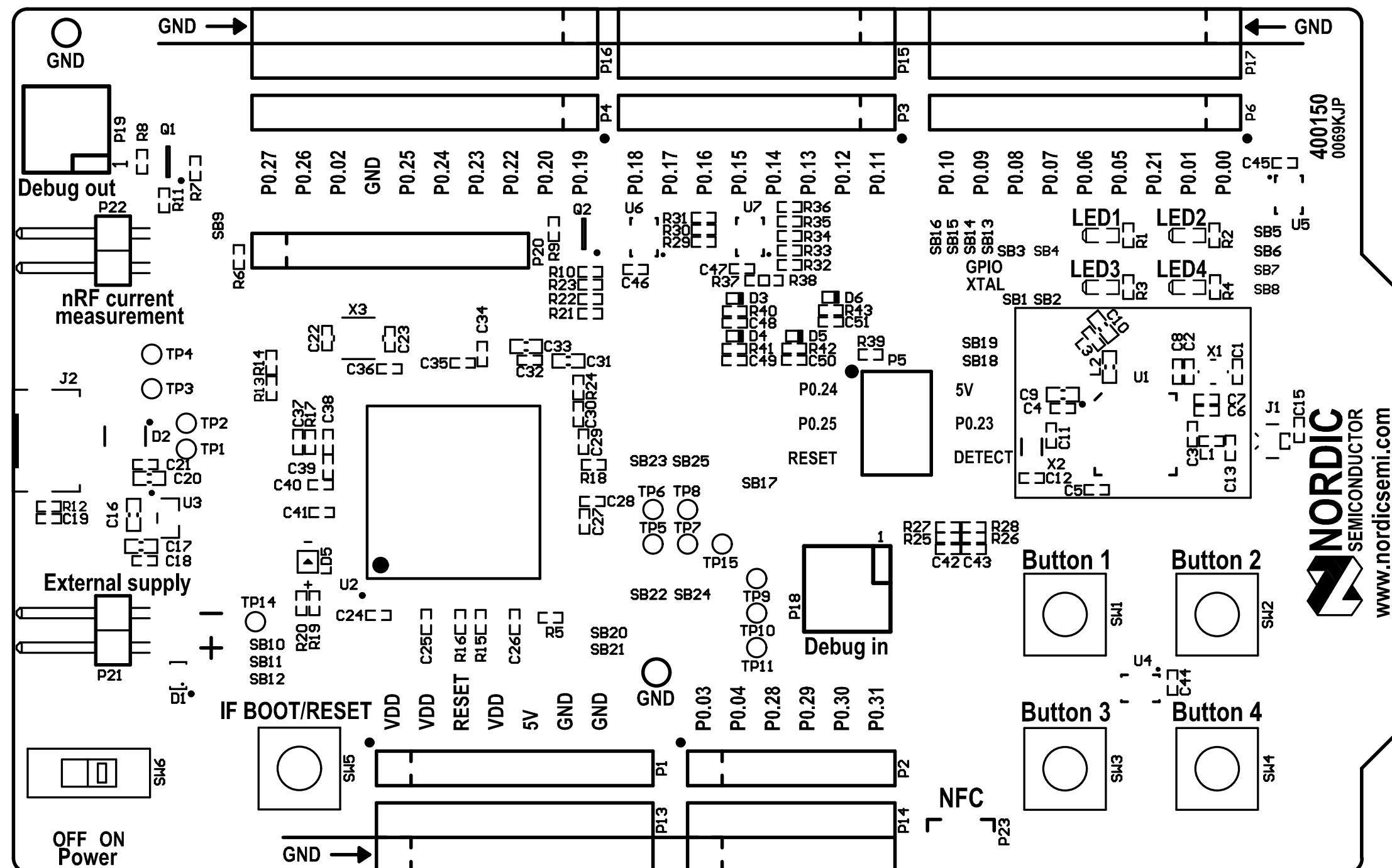


Title  
**PCA10040 - Power Supply**

Size <b>A4</b>	Project Number <b>4397</b>	Revision <b>0.9.0</b>
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Date: <b>8/26/2015</b>	Sheet <b>5</b> of <b>5</b>
File: <b>pca10040_sheet5_power_supply.SchDoc</b>	Drawn By: <b>KJP</b>

**NORDIC**  
SEMICONDUCTOR

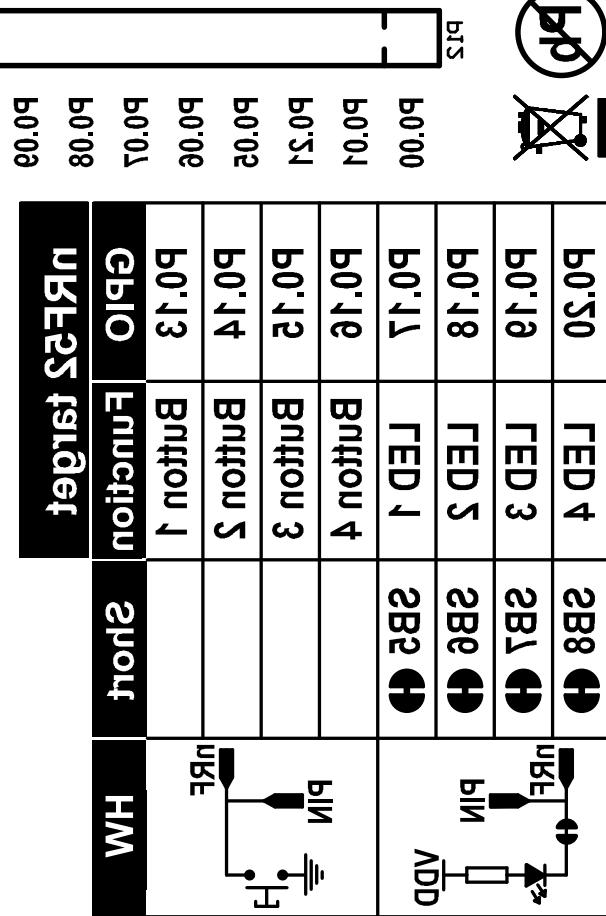
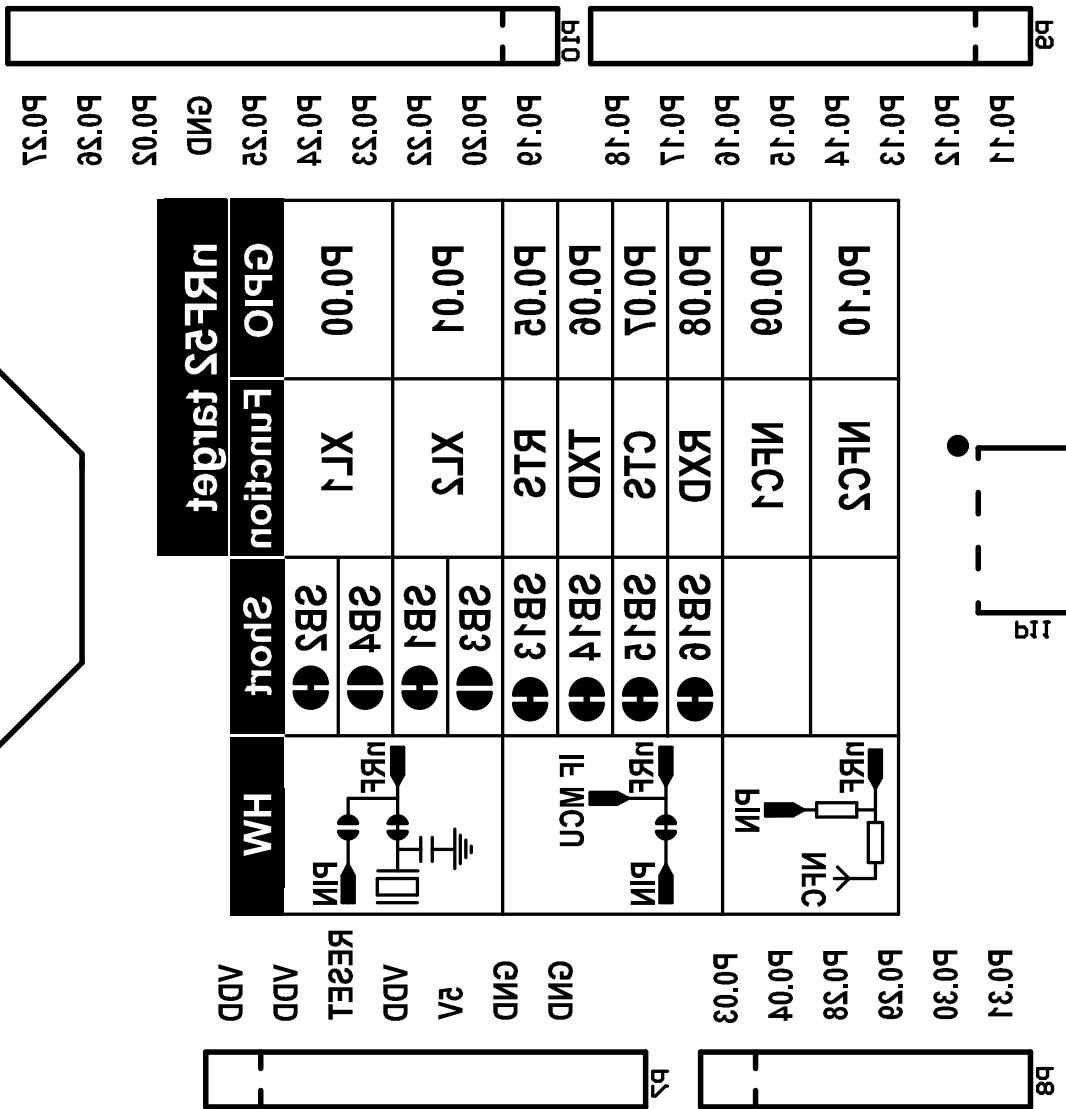




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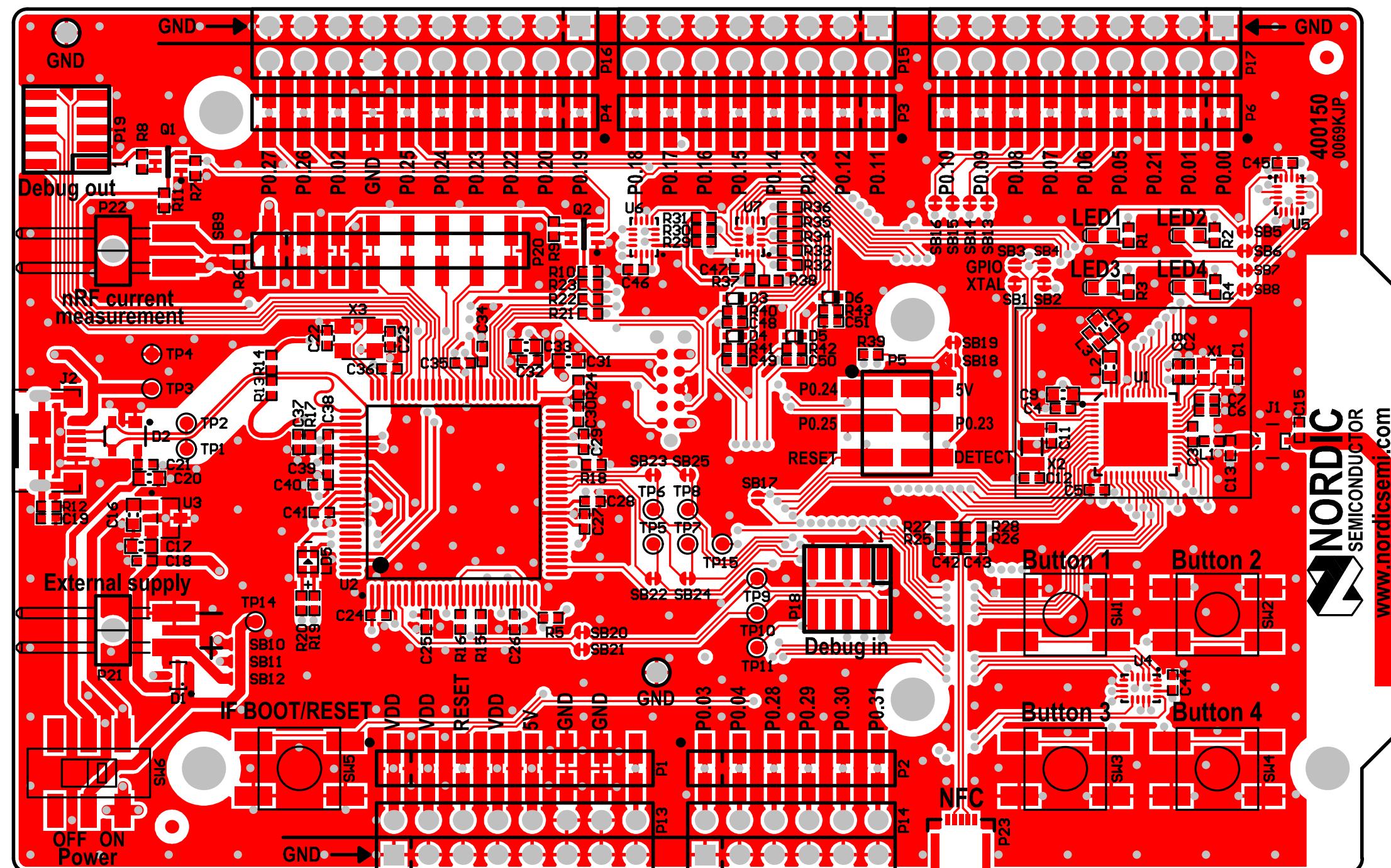
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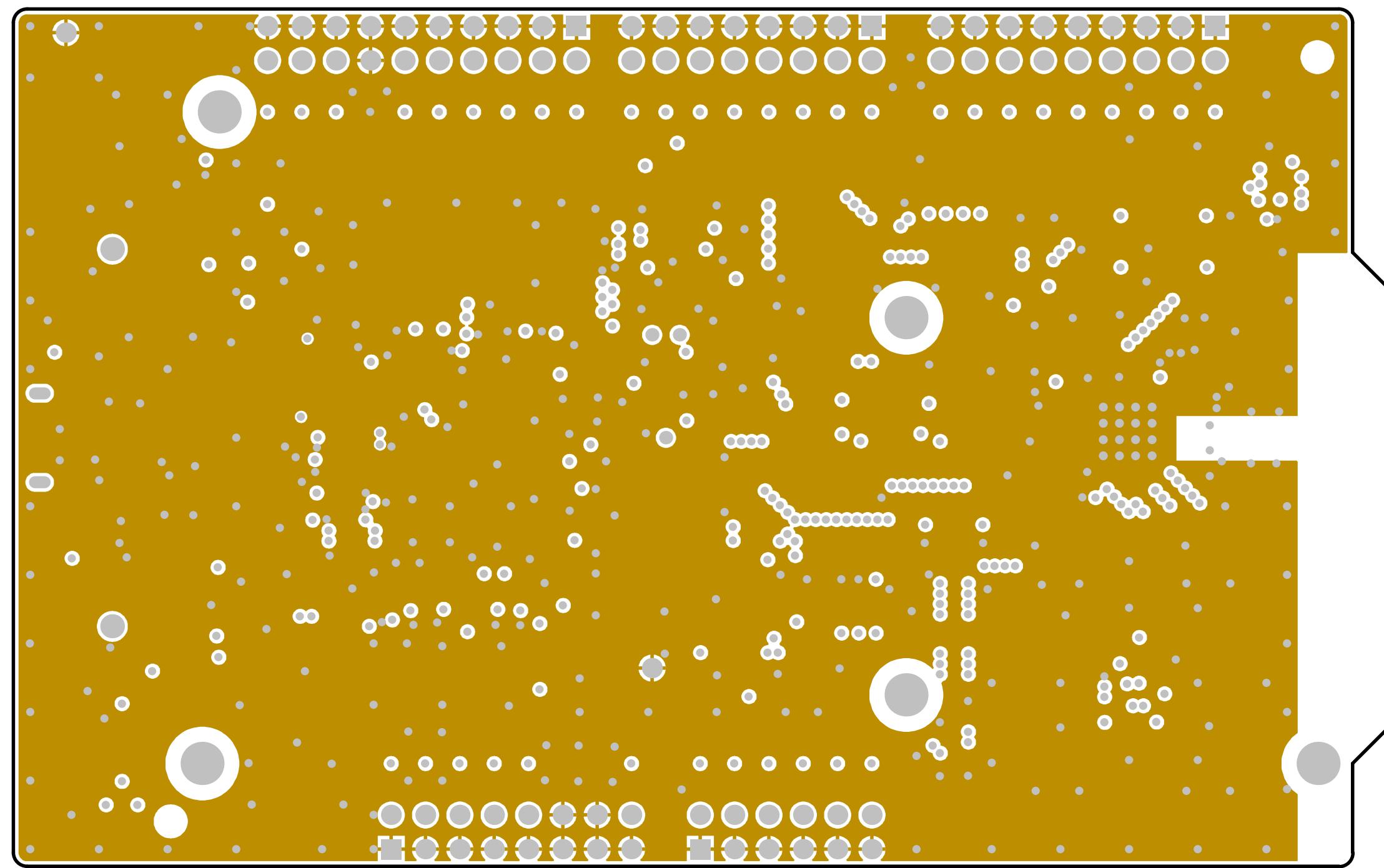
bedm

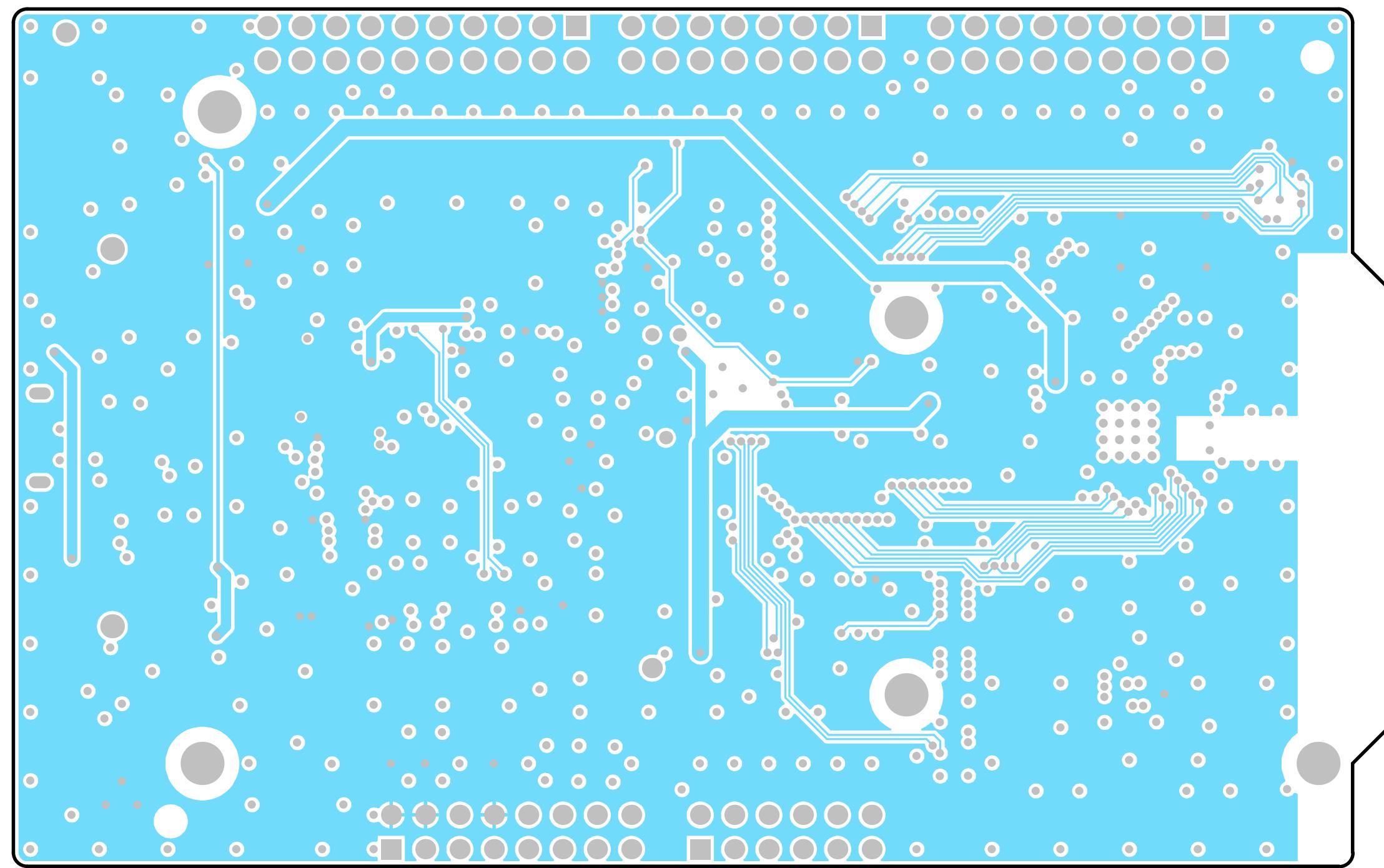




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**CHAPTER 2**

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