


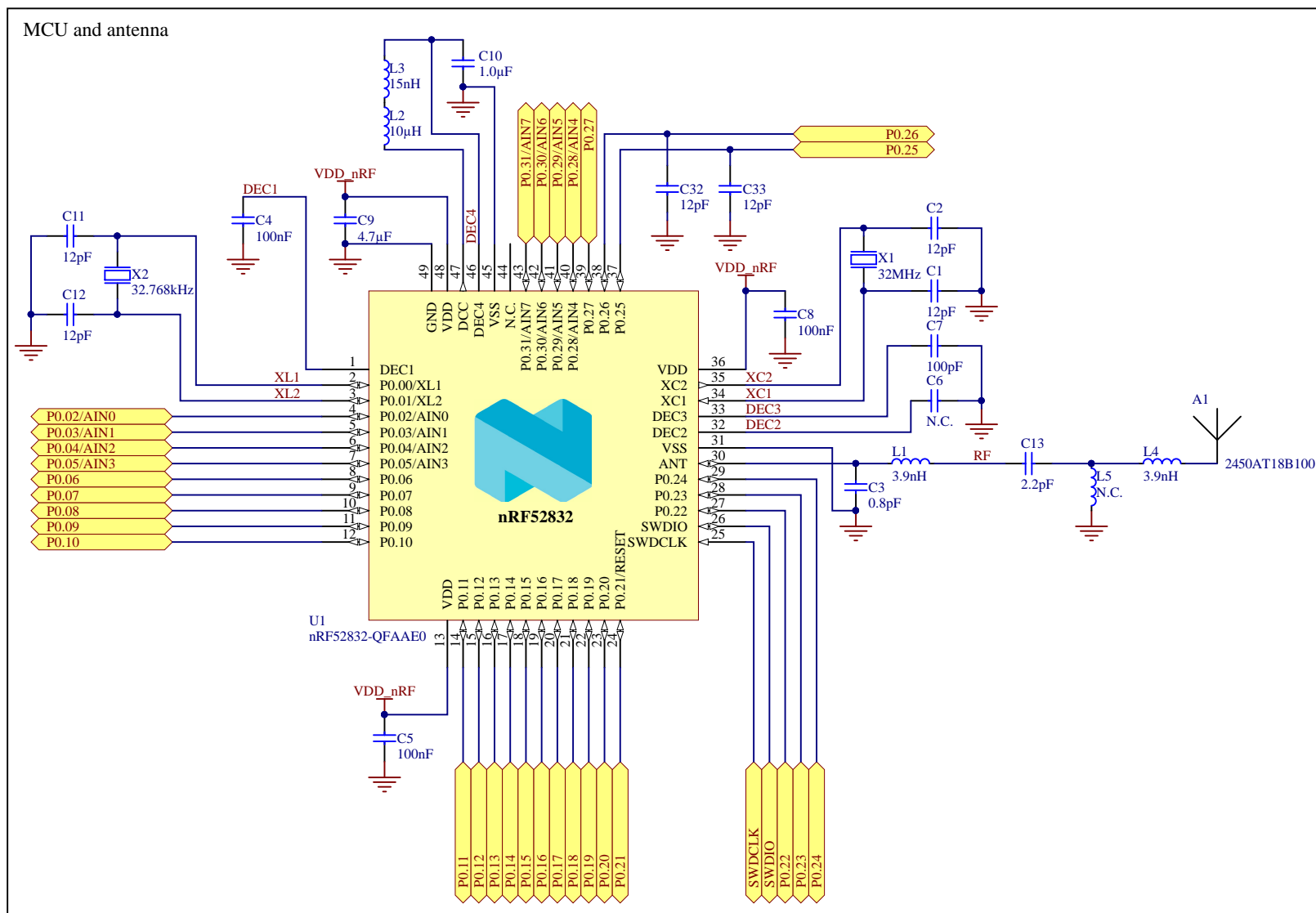
Nordic Semiconductor ASA


Thingy:52

Sheet 1:	Misc
Sheet 2:	nRF MCU
Sheet 3:	IO Expander
Sheet 4:	Pin Map
Sheet 5:	Motion Sensors
Sheet 6:	Environment Sensors
Sheet 7:	Sound and Light
Sheet 8:	Power Supply
Sheet 9:	Interface

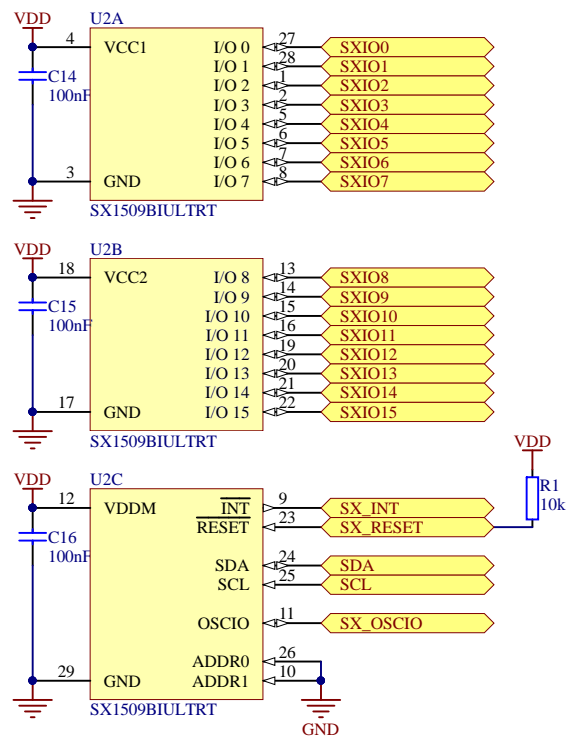
* * *


Title PCA20020 - Cover		
Size A4	Project Number 4433	
Date: 2019.03.28		Revision 1.1.0
File: pca20020_sheet1_cover.SchDoc		Sheet 1 of 9
		Drawn By: RUBR

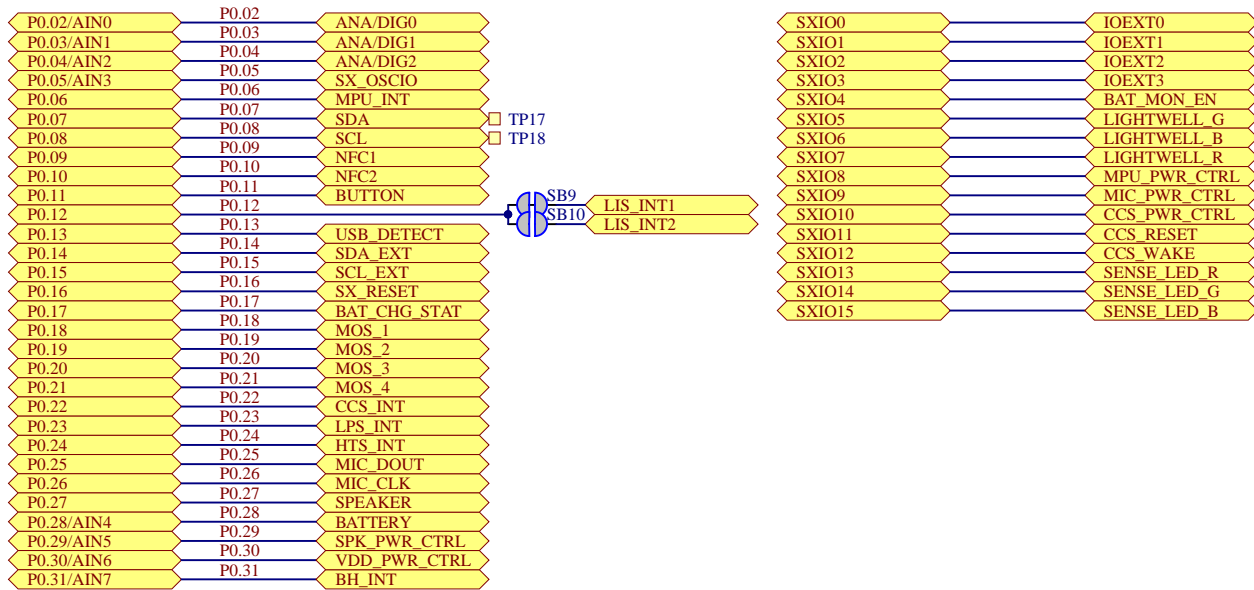


Title PCA20020 - nRF MCU		
Size A4	Project Number 4433	
Revision 1.1.0		
Date: 2019.03.29		Sheet 2 of 9
File: pca20020_sheet2_mcu.SchDoc		Drawn By: RUBR

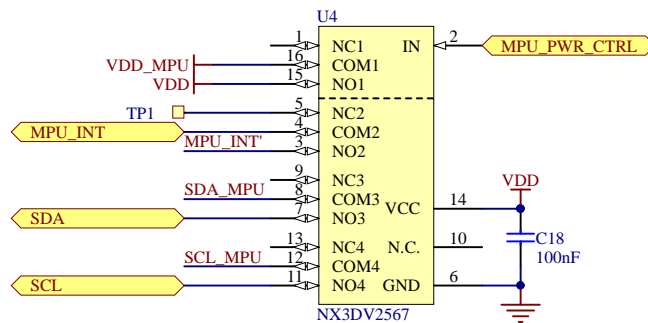
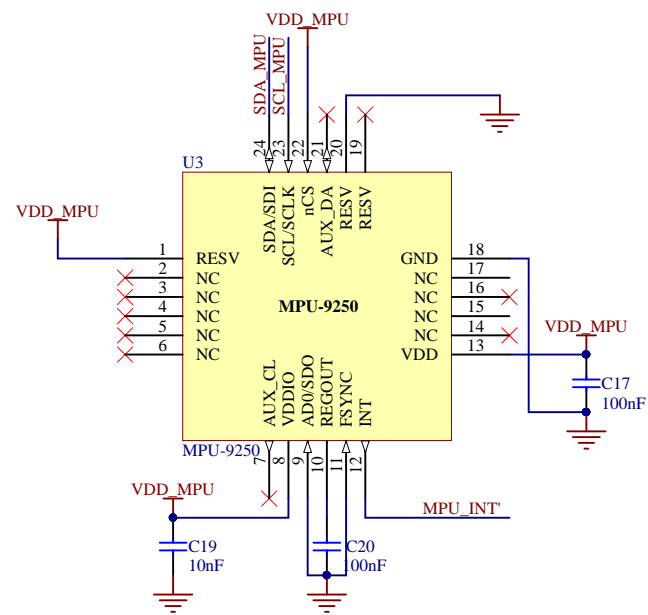
I/O Expander I2C address: 0x3E



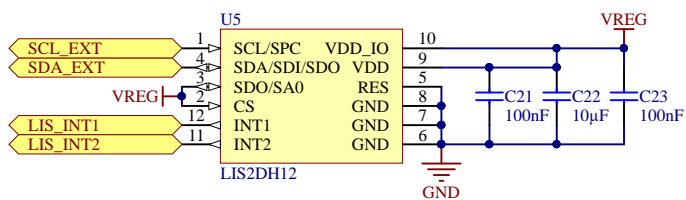
Title PCA20020 - IO Expander			
Size A4	Project Number 4433	Revision 1.1.0	
Date: 2019.03.28		Sheet 3 of 9	
File: pca20020_sheet3_io_expander.SchDoc		Drawn By: RUBR	



Motion tracking device I2C address: 0x68



Low power accelerometer I2C address: 0x19



Title
PCA20020 - Motion Sensors

Size
A4

Project Number
4433

Revision
1.1.0

Date: 2019.03.28

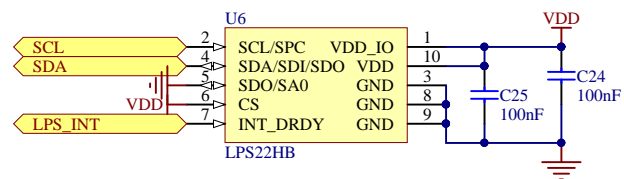
Sheet 5 of 9

File: pca20020_sheet5_motion_sensors.SchDoc

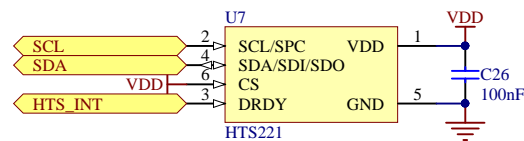
Drawn By: RUBR



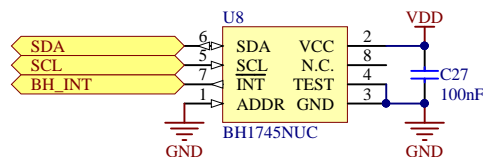
Pressure/Altitude and Temperature sensor I2C address: 0x5C



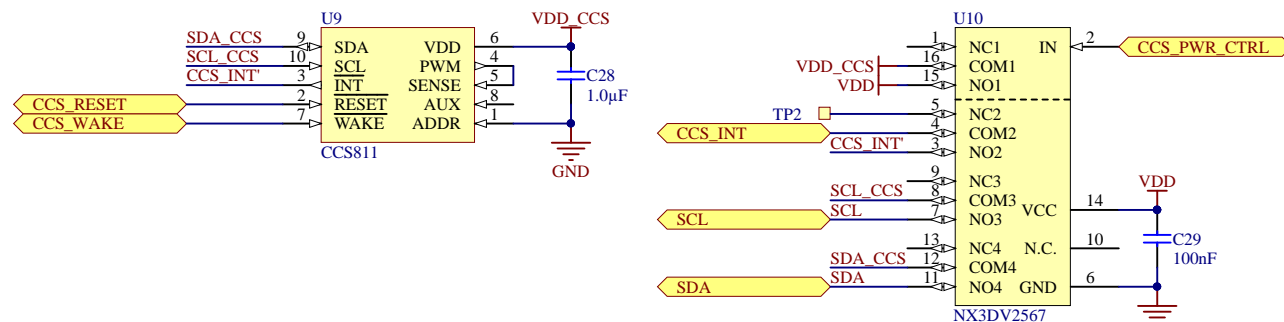
Humidity and Temperature sensor I2C address: 0x5F



Color sensor I2C address: 0x38



Gas sensor I2C address: 0x5A



Title
PCA20020 - Environment Sensors

Size
A4

Project Number
4433

Revision
1.1.0

Date: 2019.03.28

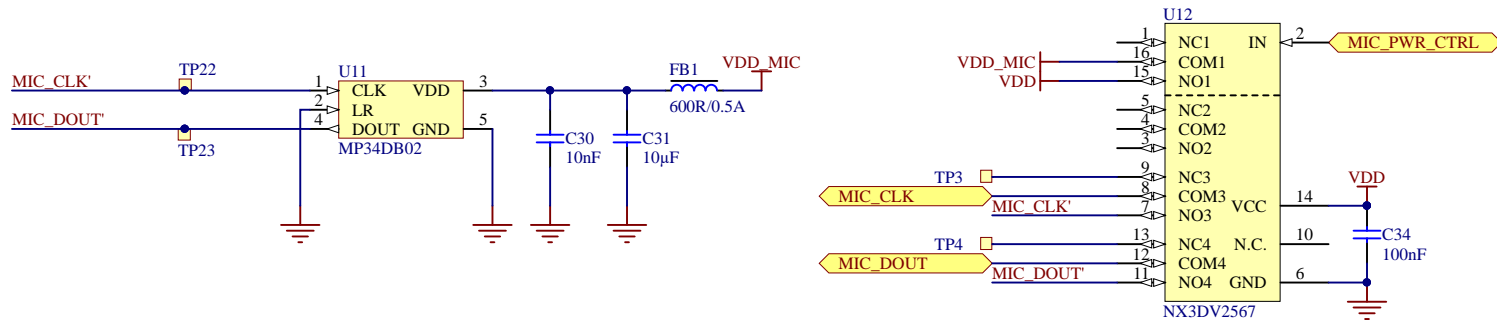
Sheet 6 of 9

File: pca20020_sheet6_environment_sensors.SchDoc

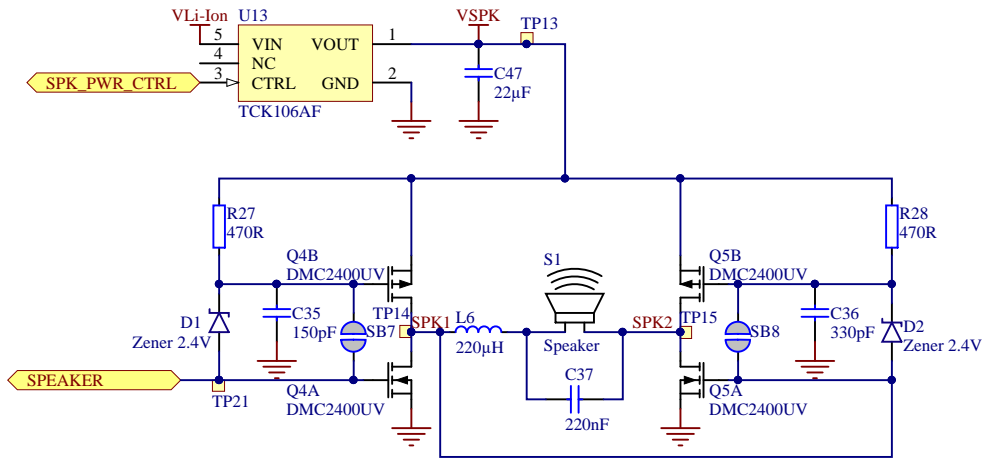
Drawn By: RUBR



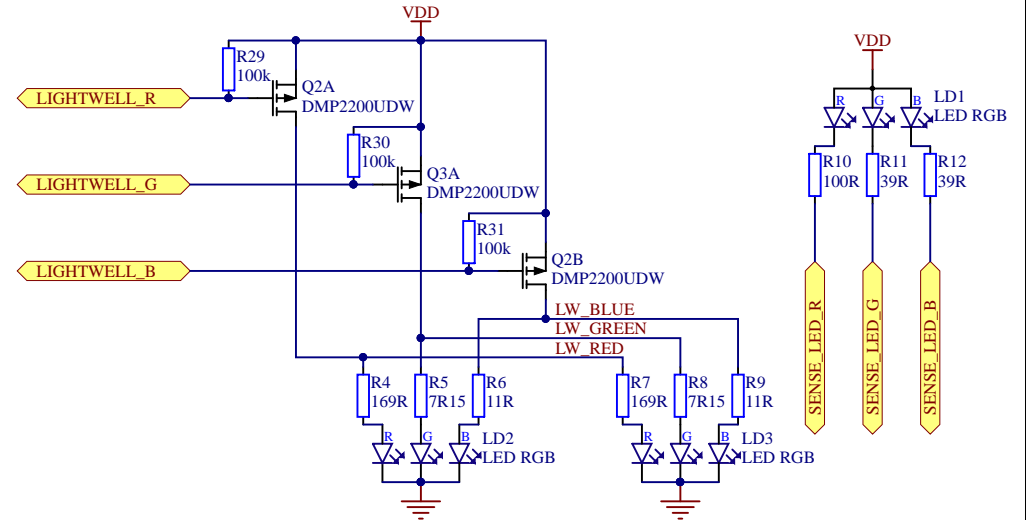
Digital Microphone



Amplifier and speaker



LEDs



Title
PCA20020 - Sound and Light

Size
A4

Project Number
4433

Revision
1.1.0

Date: 2019.03.28

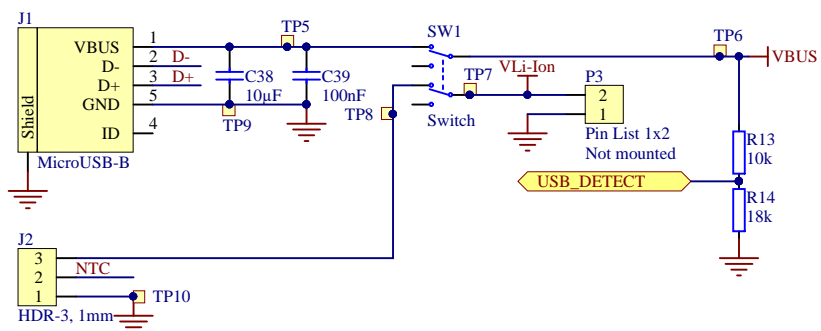
Sheet 7 of 9

File: pca20020_sheet7_sound_and_light.SchDoc

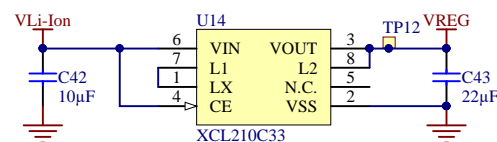
Drawn By: RUBR



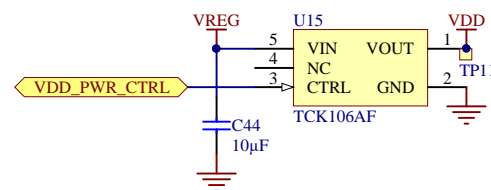
USB- and battery connector and power switch



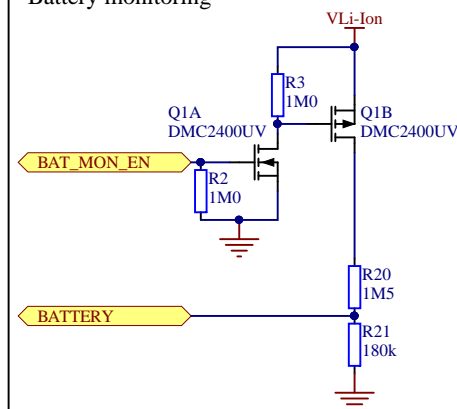
Voltage regulator



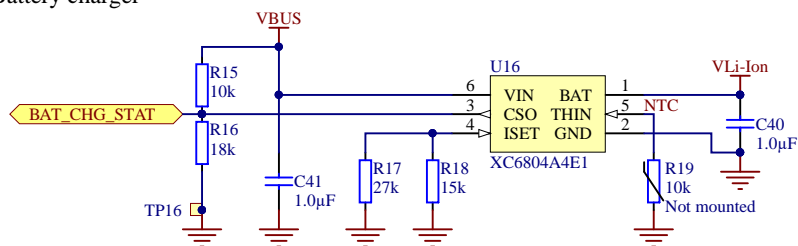
VDD power switch



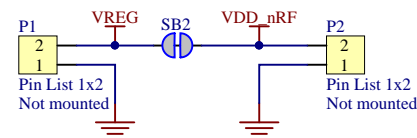
Battery monitoring



Battery charger



nRF current measurement connectors



Title
PCA20020 - Power Supply

Size
A4

Project Number
4433

Revision
1.1.0

Date: 2019.03.29

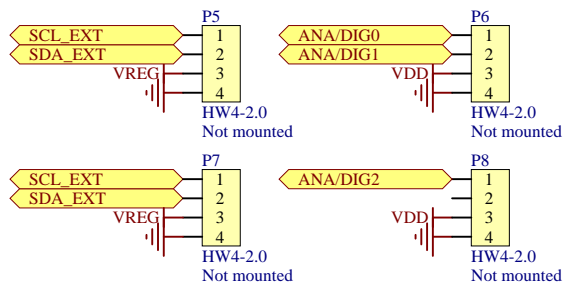
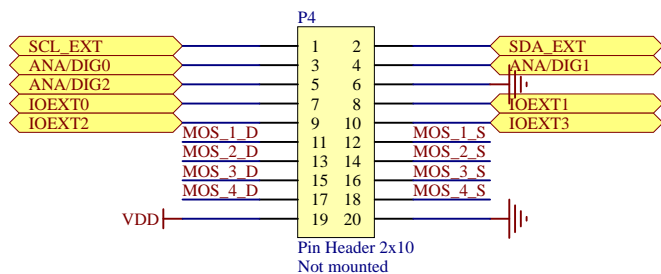
Sheet 8 of 9

File: pca20020_sheet8_power_supply.SchDoc

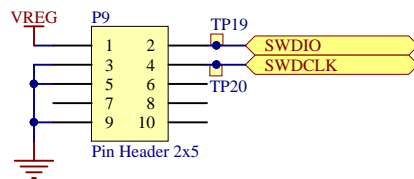
Drawn By: RUBR



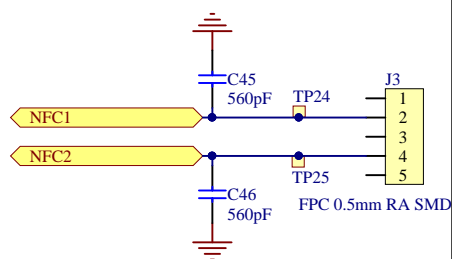
Interface connectors



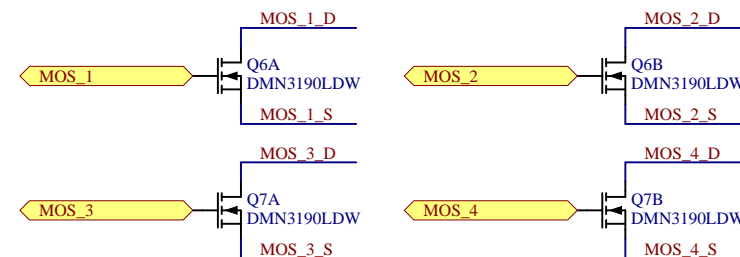
Programming / debugging interface



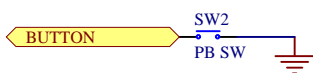
NFC antenna connector



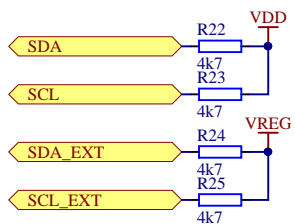
N-MOS transistors



Button



I2C Pull resistors



Title
PCA20020 - Interface

Size
A4

Project Number
4433

Revision
1.1.0

Date: 2019.03.28

Sheet 9 of 9

File: pca20020_sheet9_interface.SchDoc

Drawn By: RUBR



H1 3mm,N.P
H2 3mm,N.P
H3 3mm,N.P

