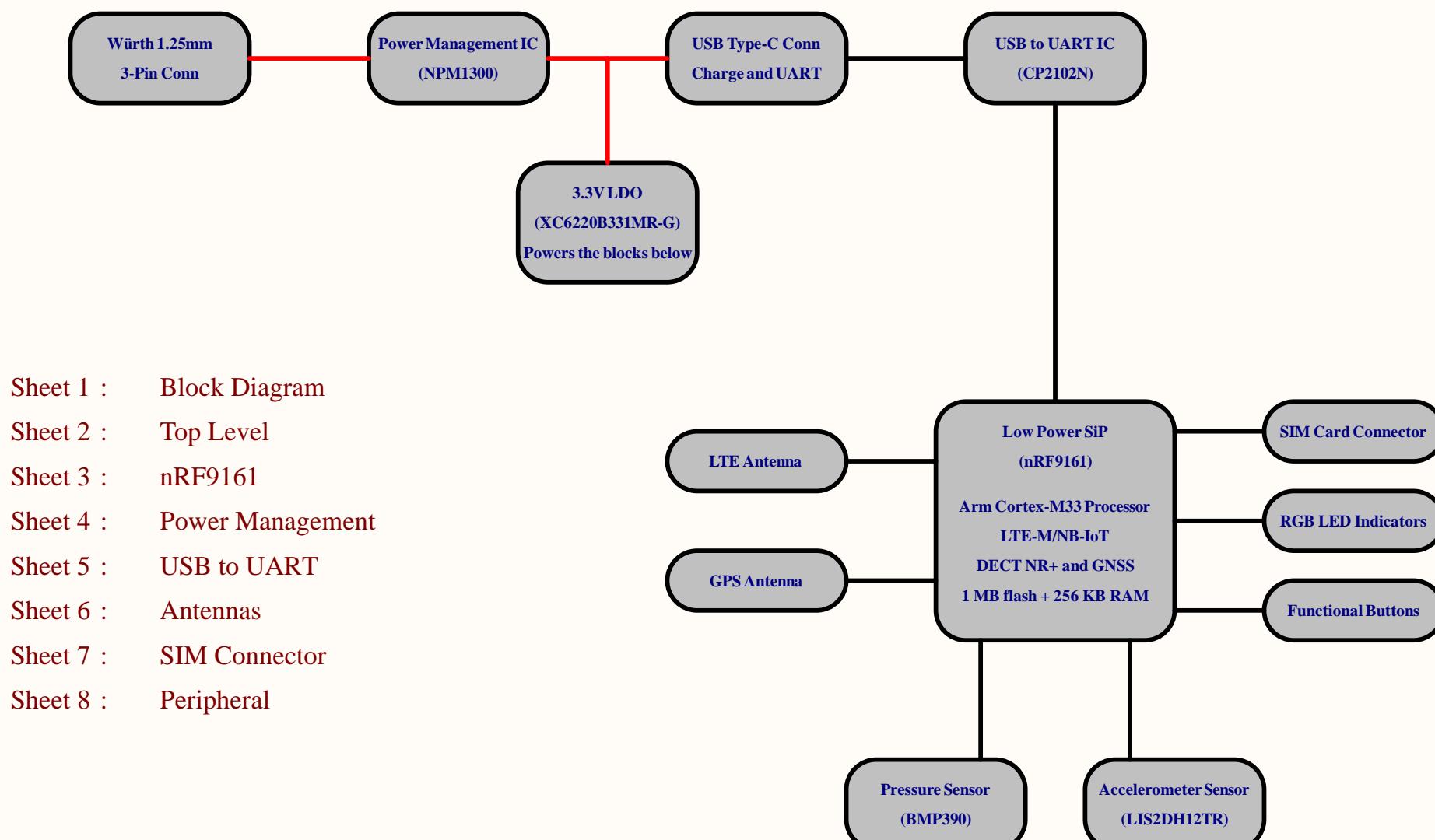


Block Diagram of the System

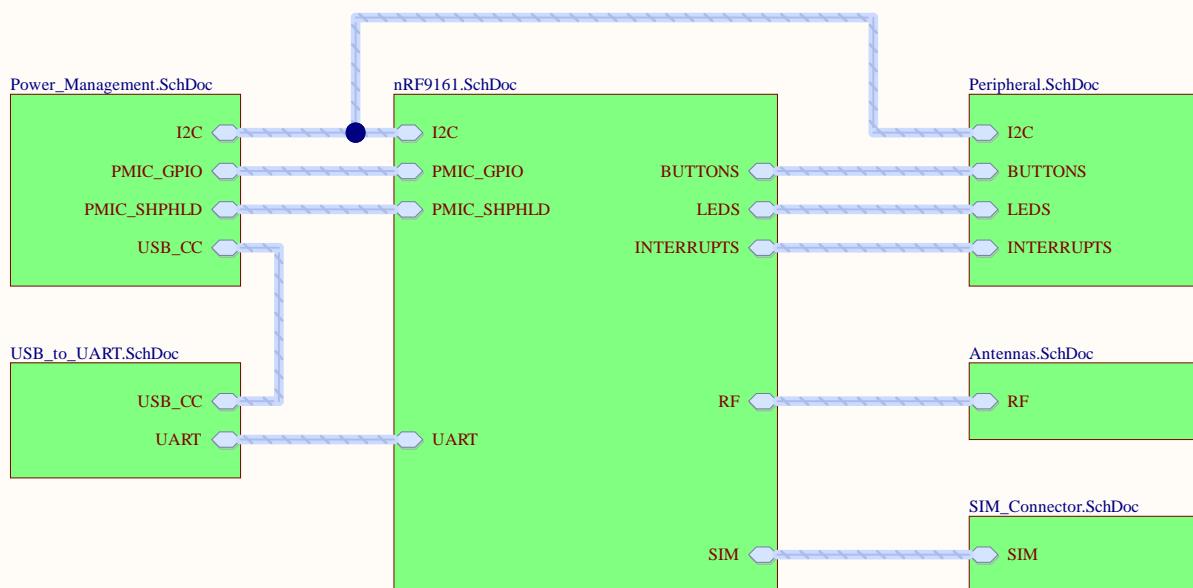


- Sheet 1 : Block Diagram
- Sheet 2 : Top Level
- Sheet 3 : nRF9161
- Sheet 4 : Power Management
- Sheet 5 : USB to UART
- Sheet 6 : Antennas
- Sheet 7 : SIM Connector
- Sheet 8 : Peripheral

Project Name Outdoor_Tracking.PrjPcb		
Schematic Name Block Diagram.SchDoc		
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Top Level



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Schematic Name MAIN.SchDoc		
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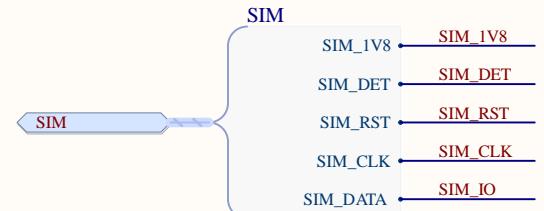
UART Port



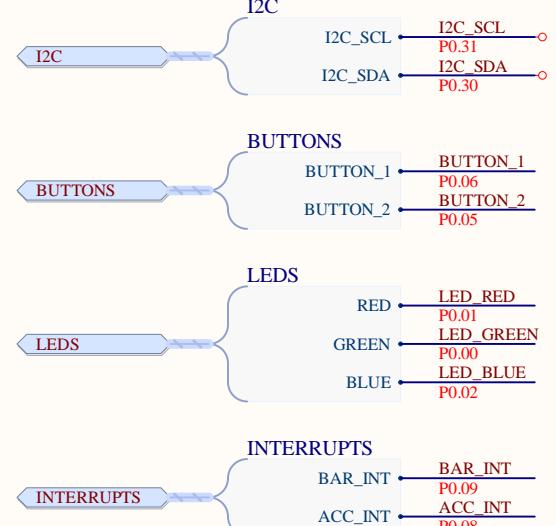
Antenna Port



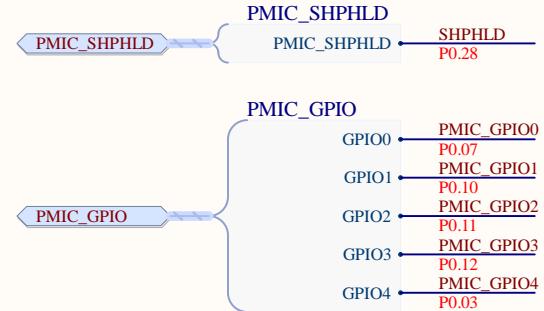
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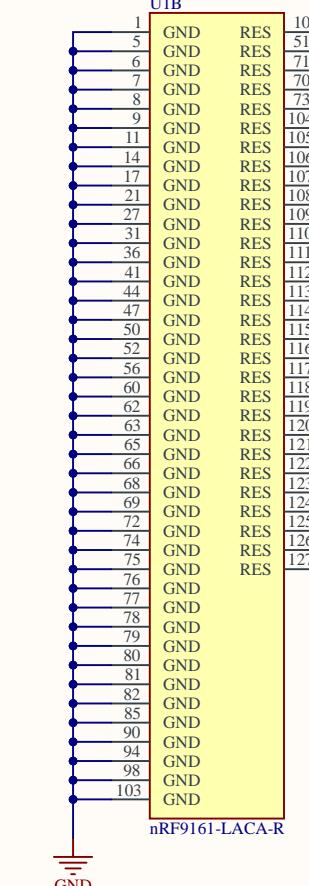
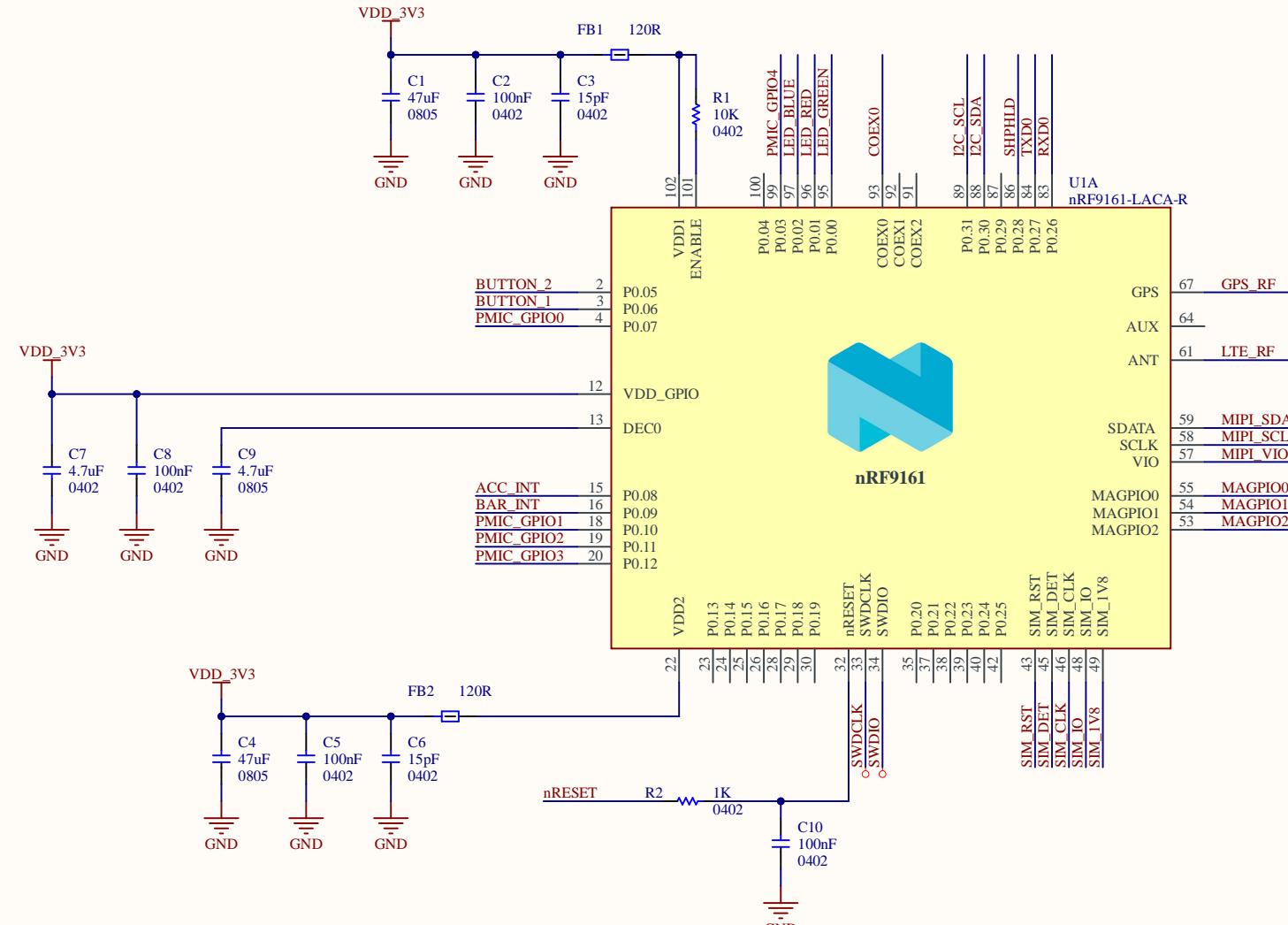
Peripheral Ports



PMIC Ports



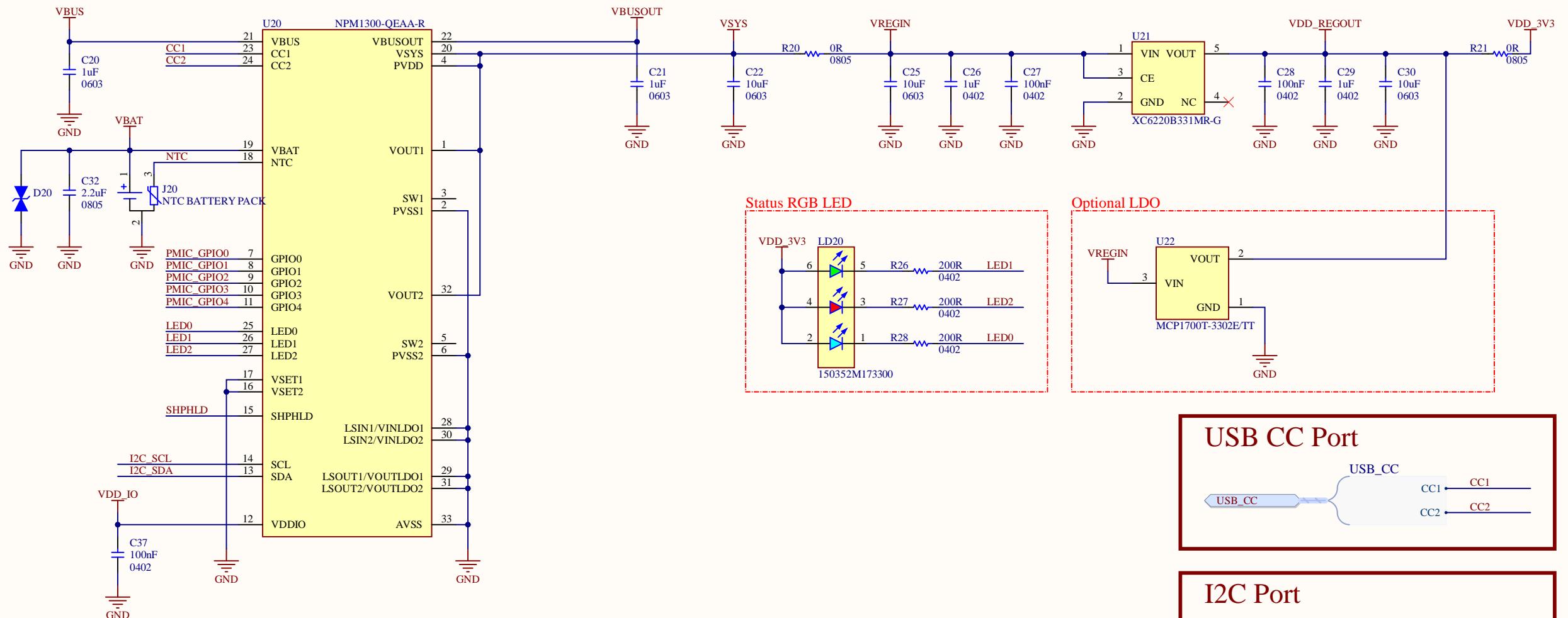
nRF9161



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Schematic Name nRF9161.SchDoc		
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File Path https://github.com/mustafaatilay/Outdoor-Tracking-Project		



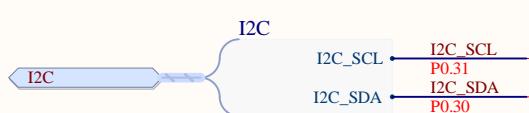
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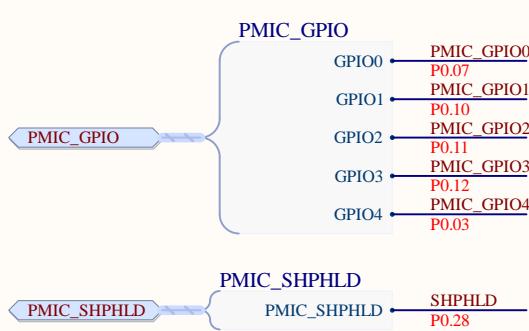
USB CC Port



I2C Port



PMIC Ports



Project Name
Outdoor_Tracking.PrjPcb

Schematic Name
Power_Management.SchDoc

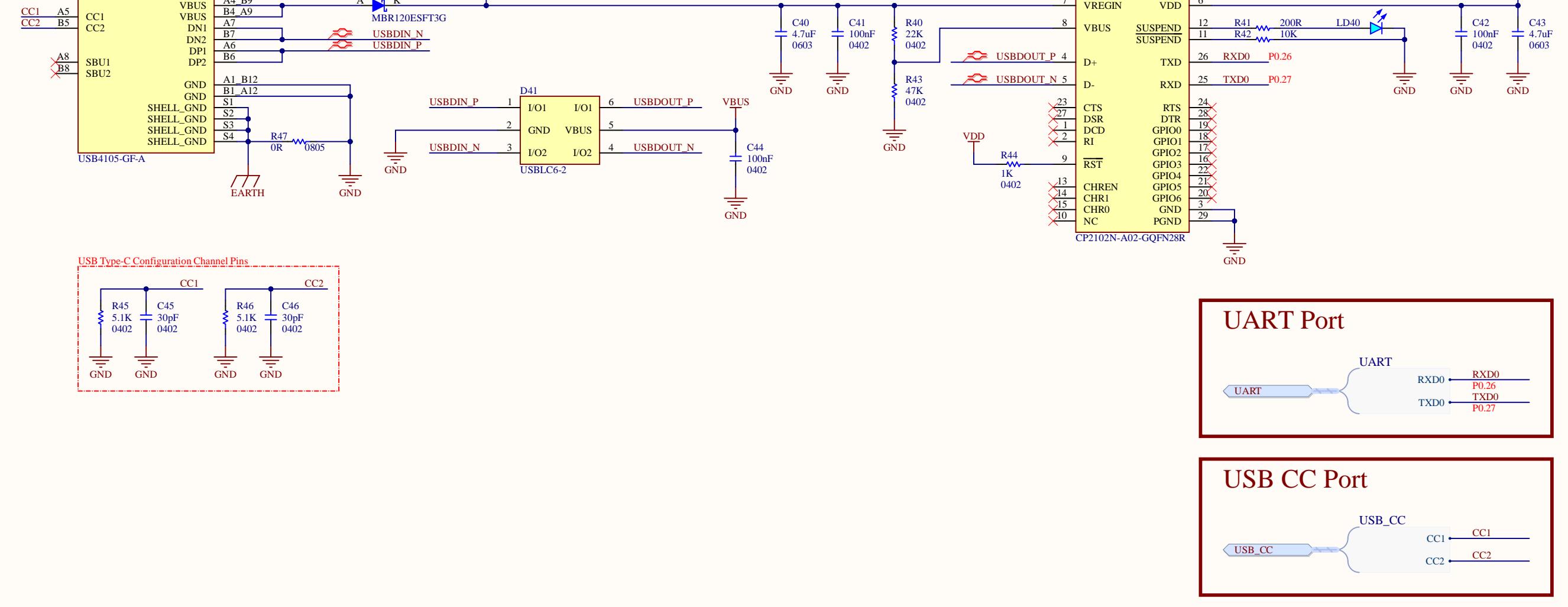
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USB 2.0 Type-C & USB-to-UART



Project Name
Outdoor_Tracking.PrjPcb

Schematic Name
USB_to_UART.SchDoc

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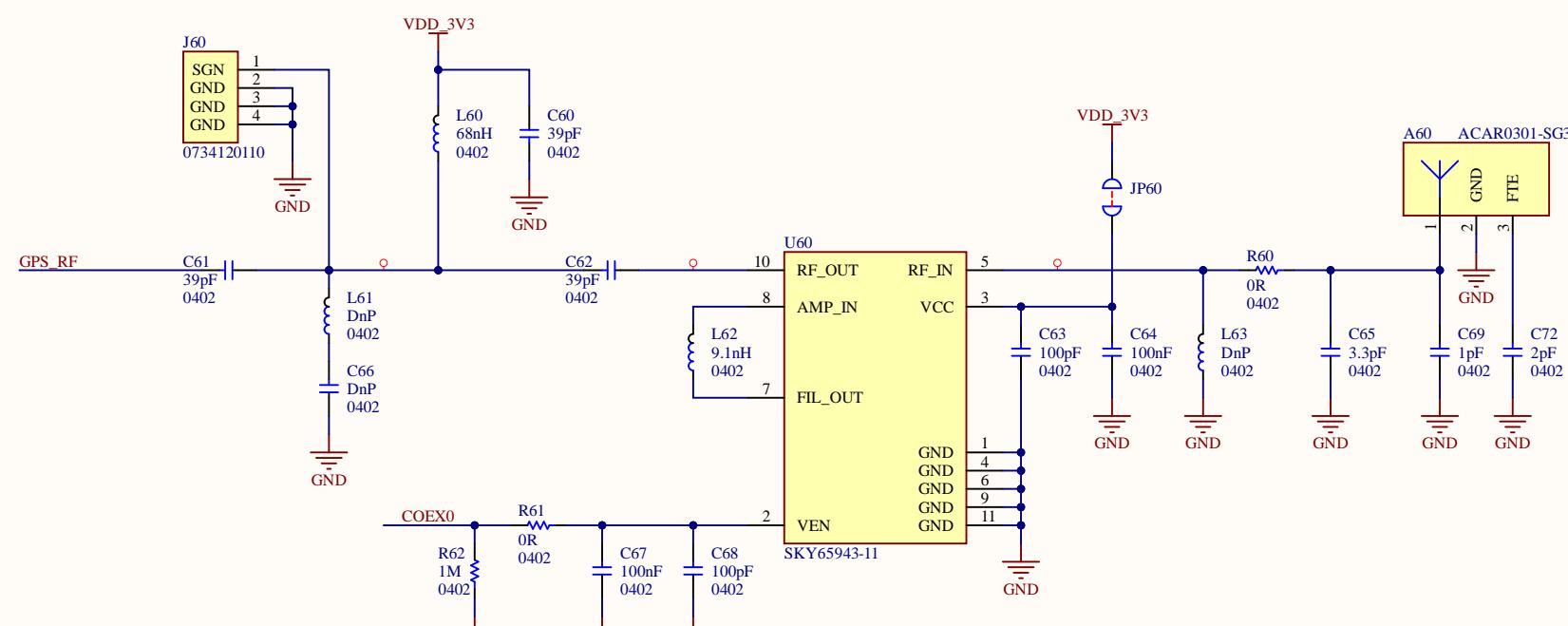
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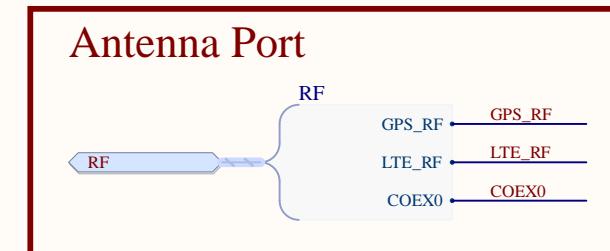
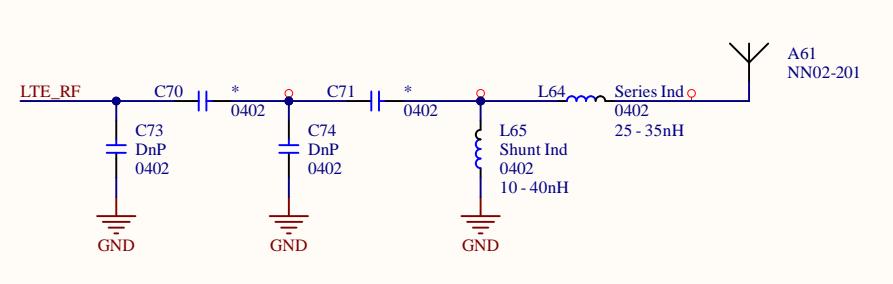


BLE & GPS Antennas

GPS Antenna



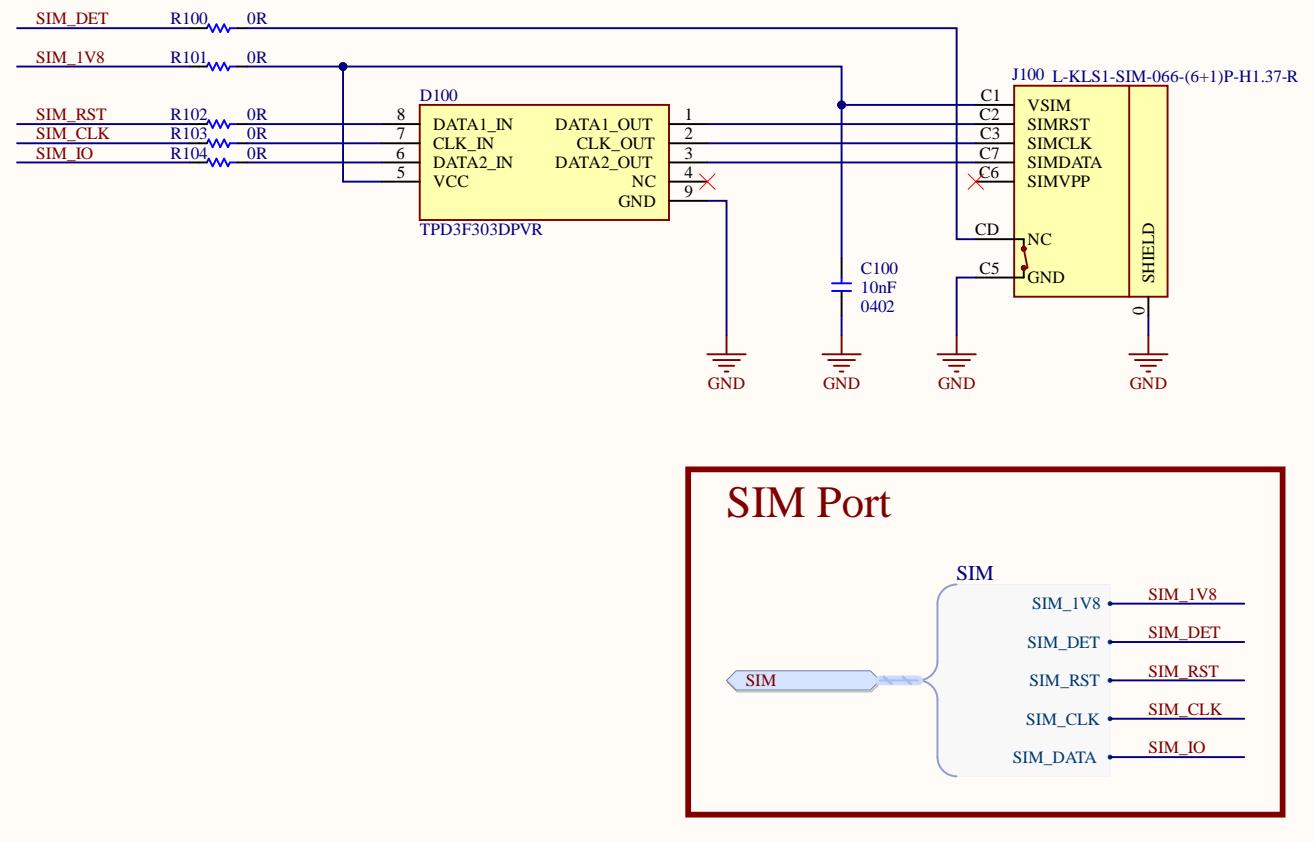
BLE Antenna



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Schematic Name Antennas.SchDoc		
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SIM Connector



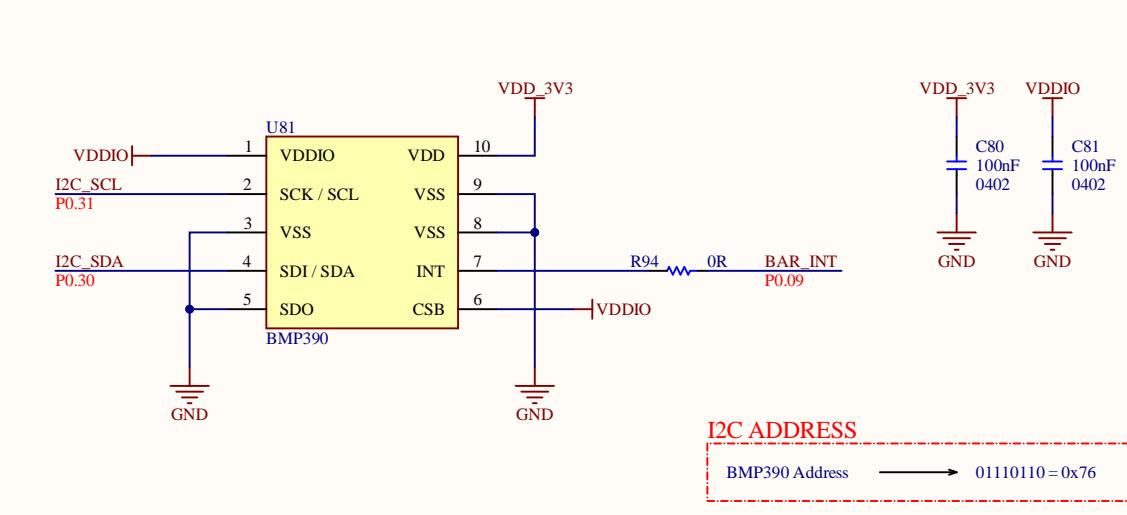
SIM Port

SIM
 SIM_V8 → SIM_DET
 SIM_DET → SIM_RST
 SIM_RST → SIM_CLK
 SIM_CLK → SIM_IO
 SIM_DATA → SIM

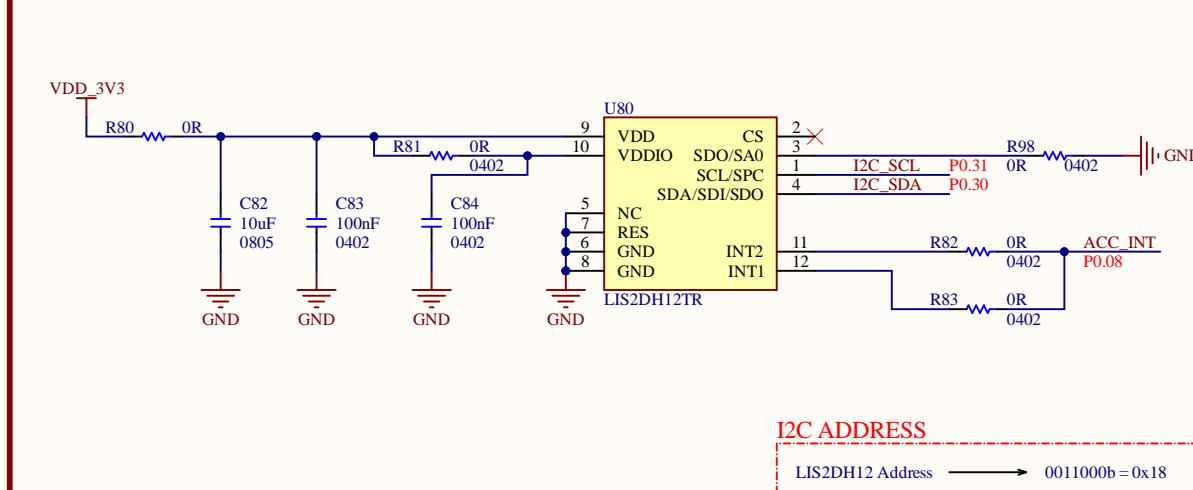
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File Path https://github.com/mustafaatilay/Outdoor-Tracking-Project		



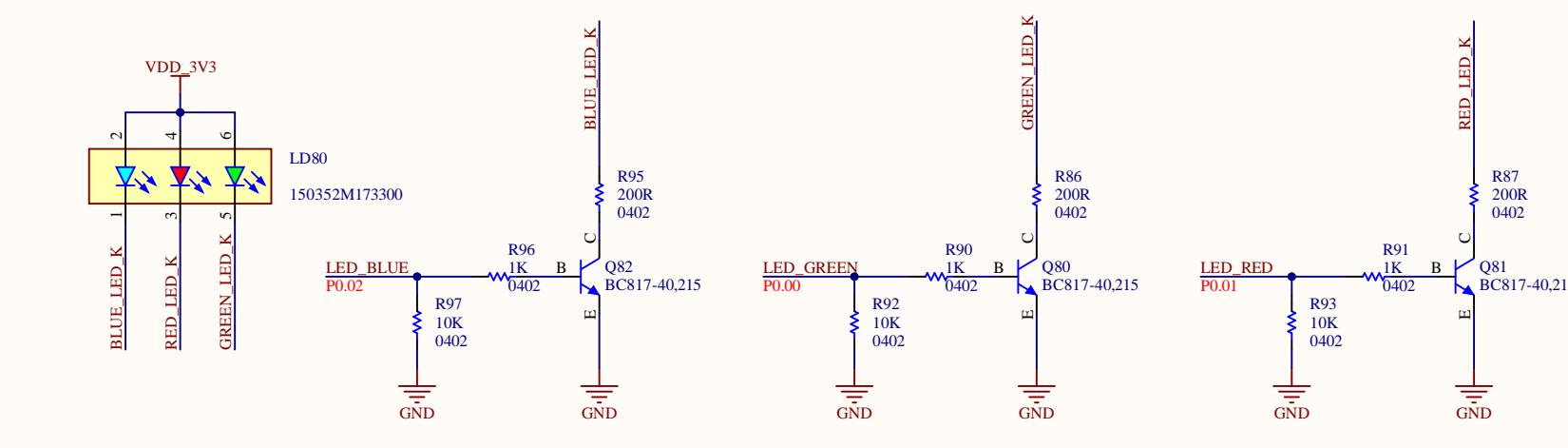
Pressure Sensor - BMP390



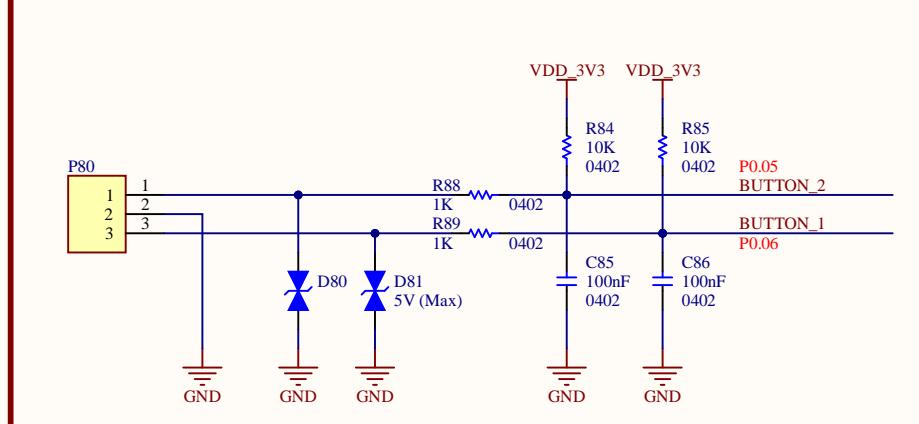
Accelerometer Sensor - LIS2DH12



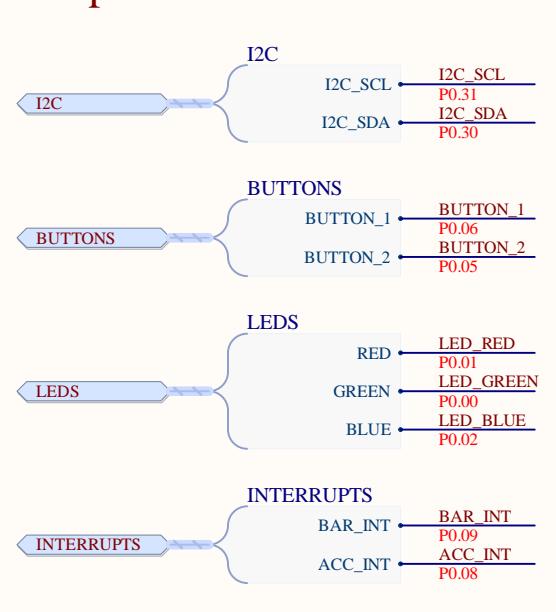
LED Indicators



Function Buttons

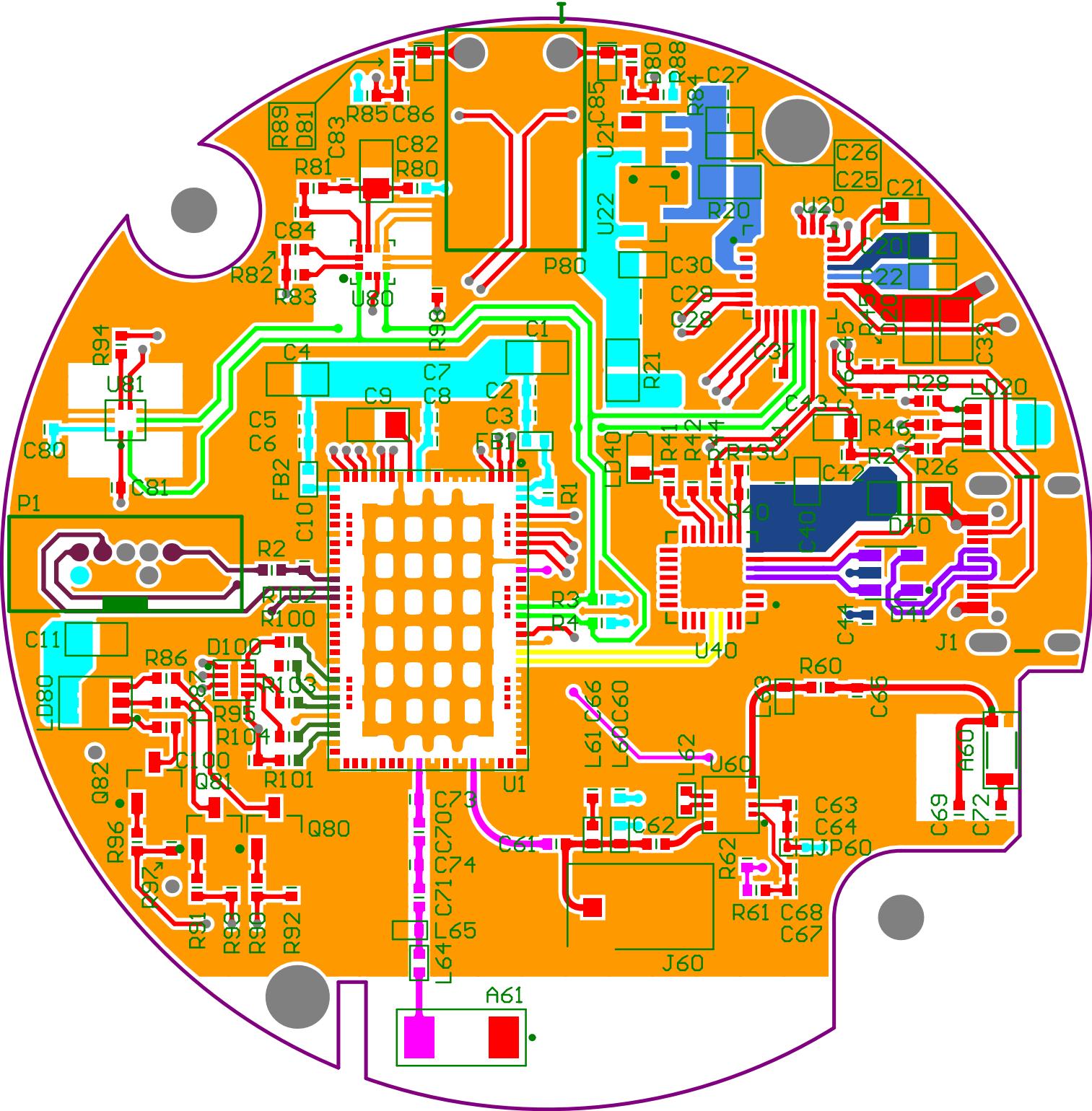


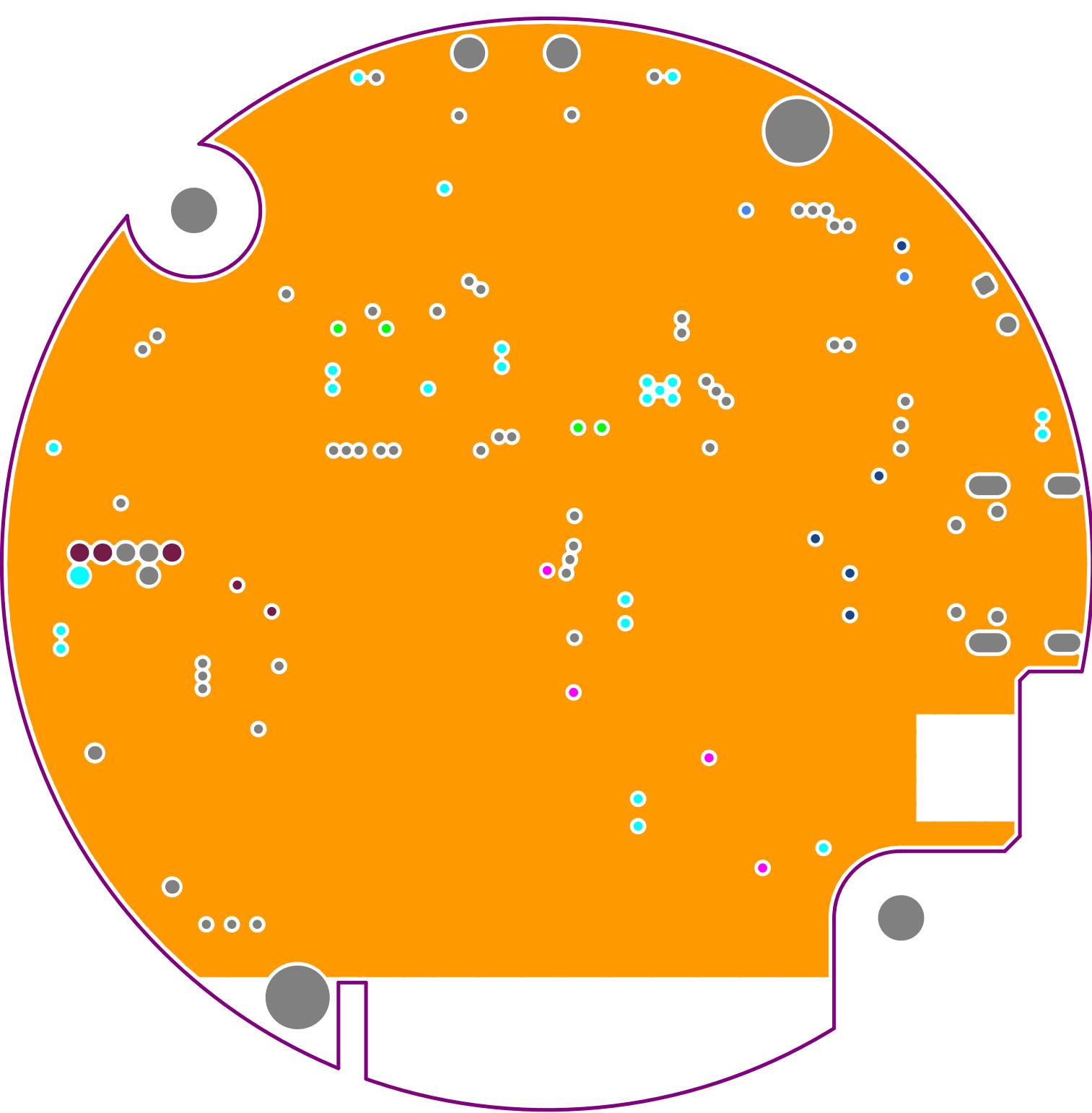
Peripheral Ports

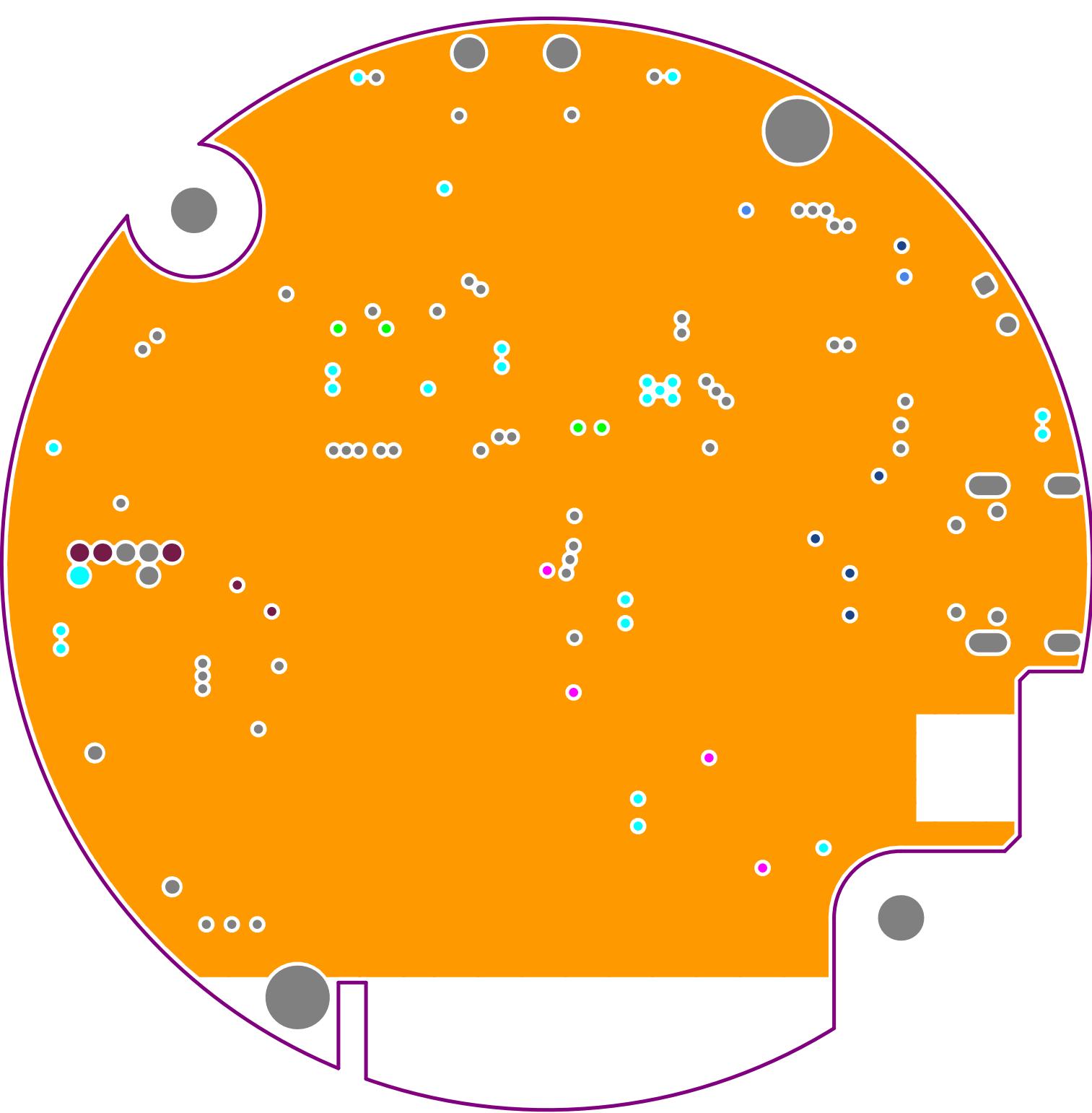


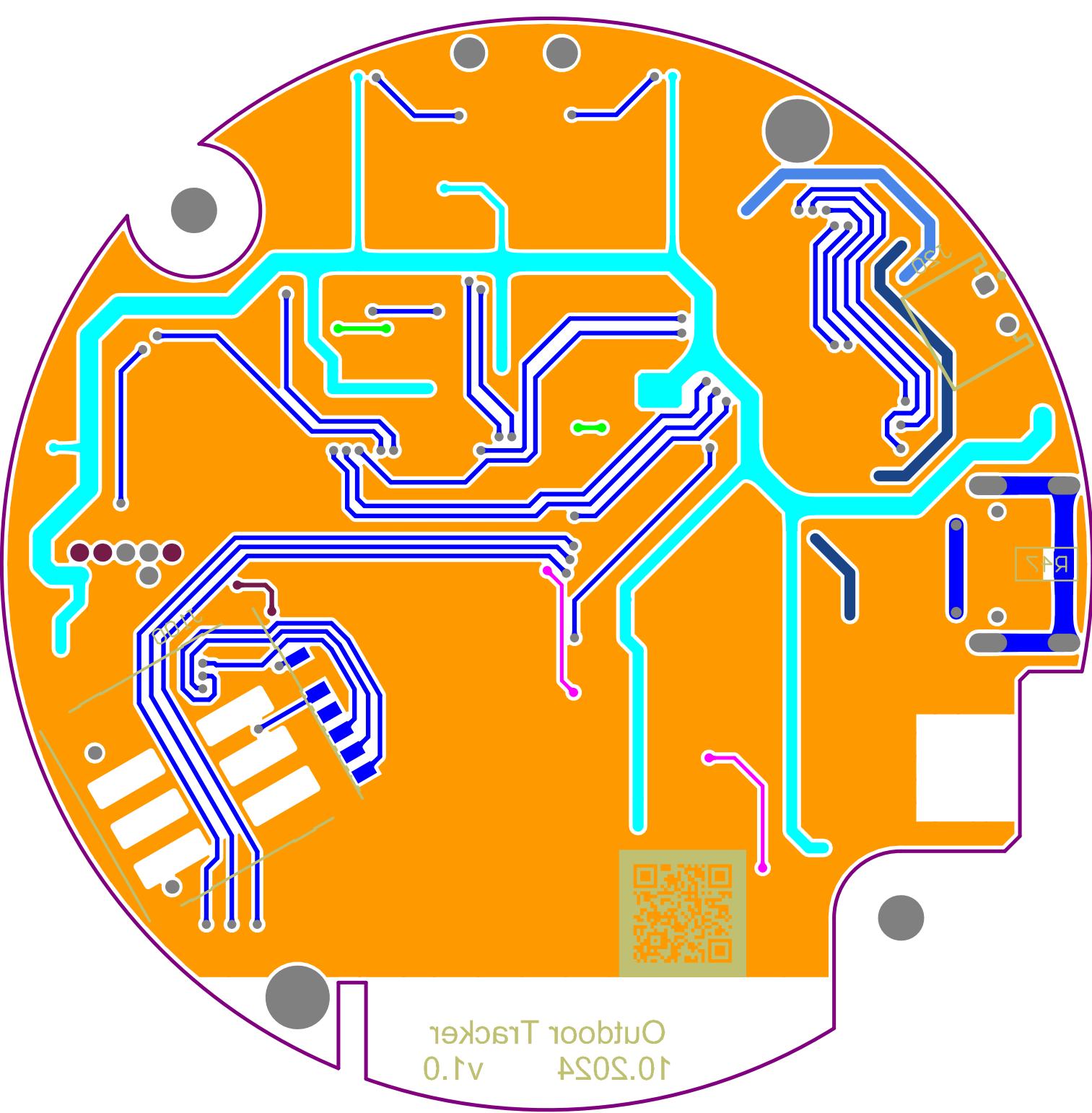
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Schematic Name Peripheral.SchDoc		
Designed by Mustafa Atilay Beycan	Checked by Mustafa Atilay Beycan	Page Size A3
Modified Date 4.02.2025	Revision No *	Sheet 8 of 8
File Path https://github.com/mustafaatilay/Outdoor-Tracking-Project		



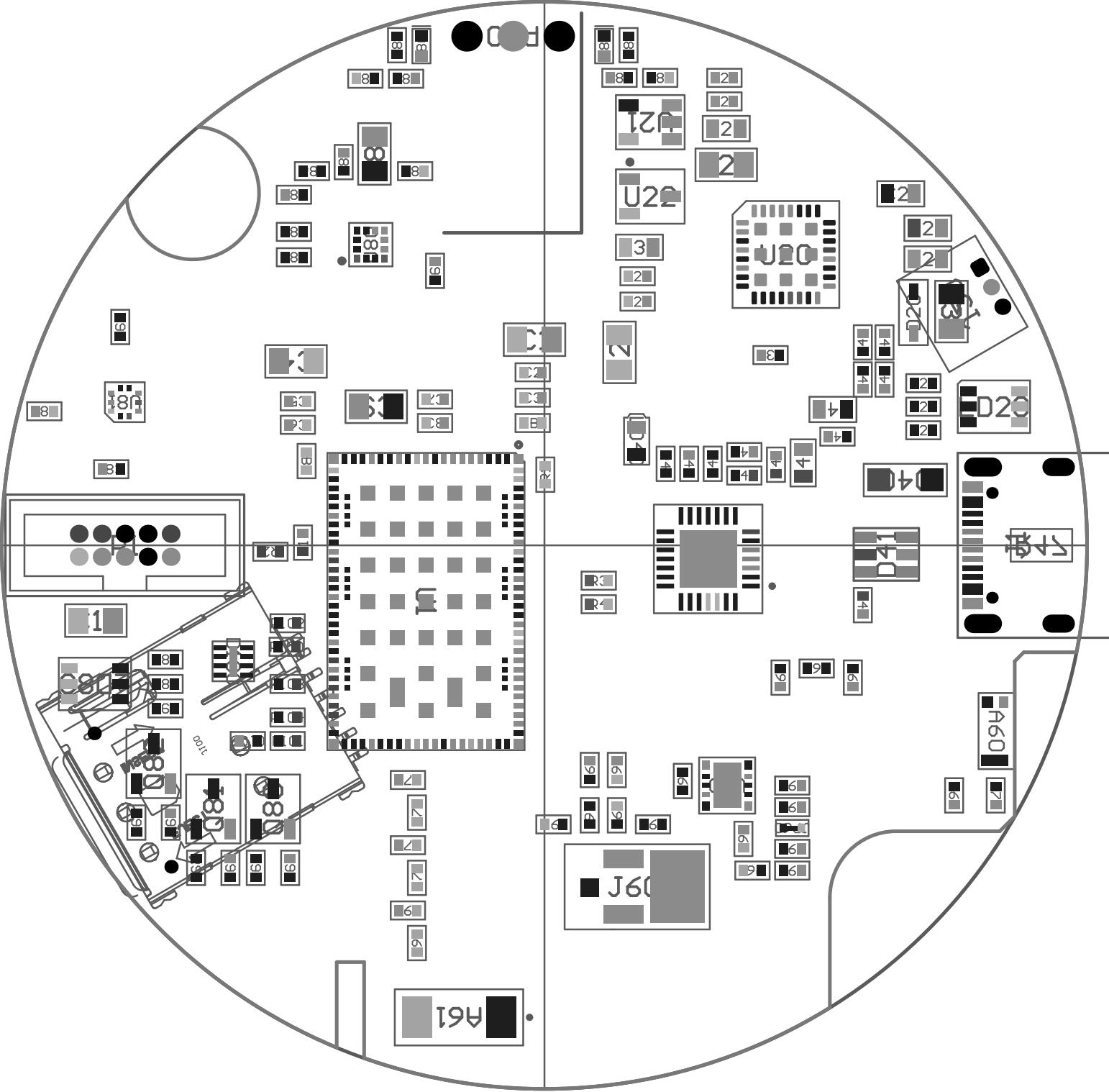


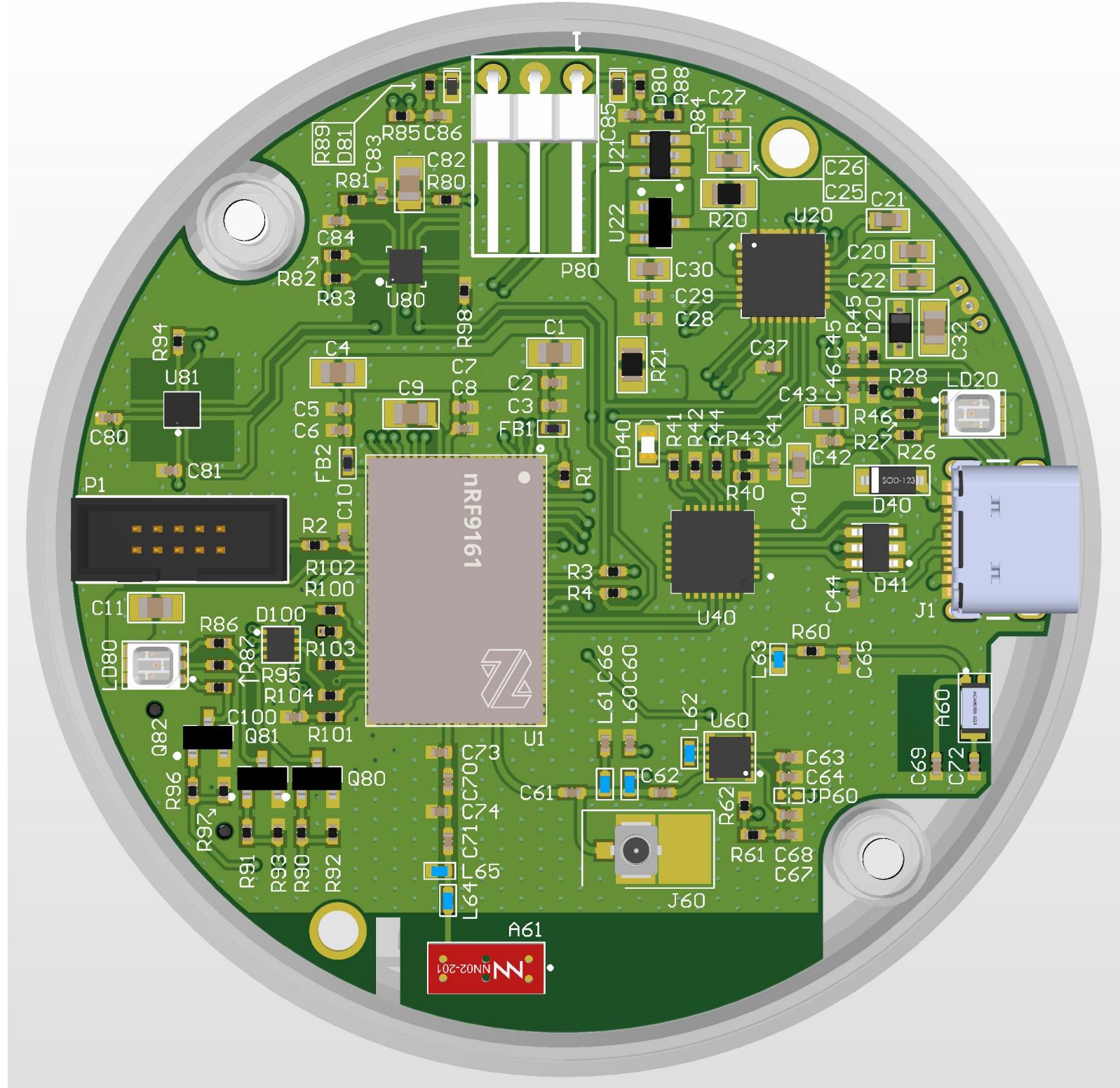


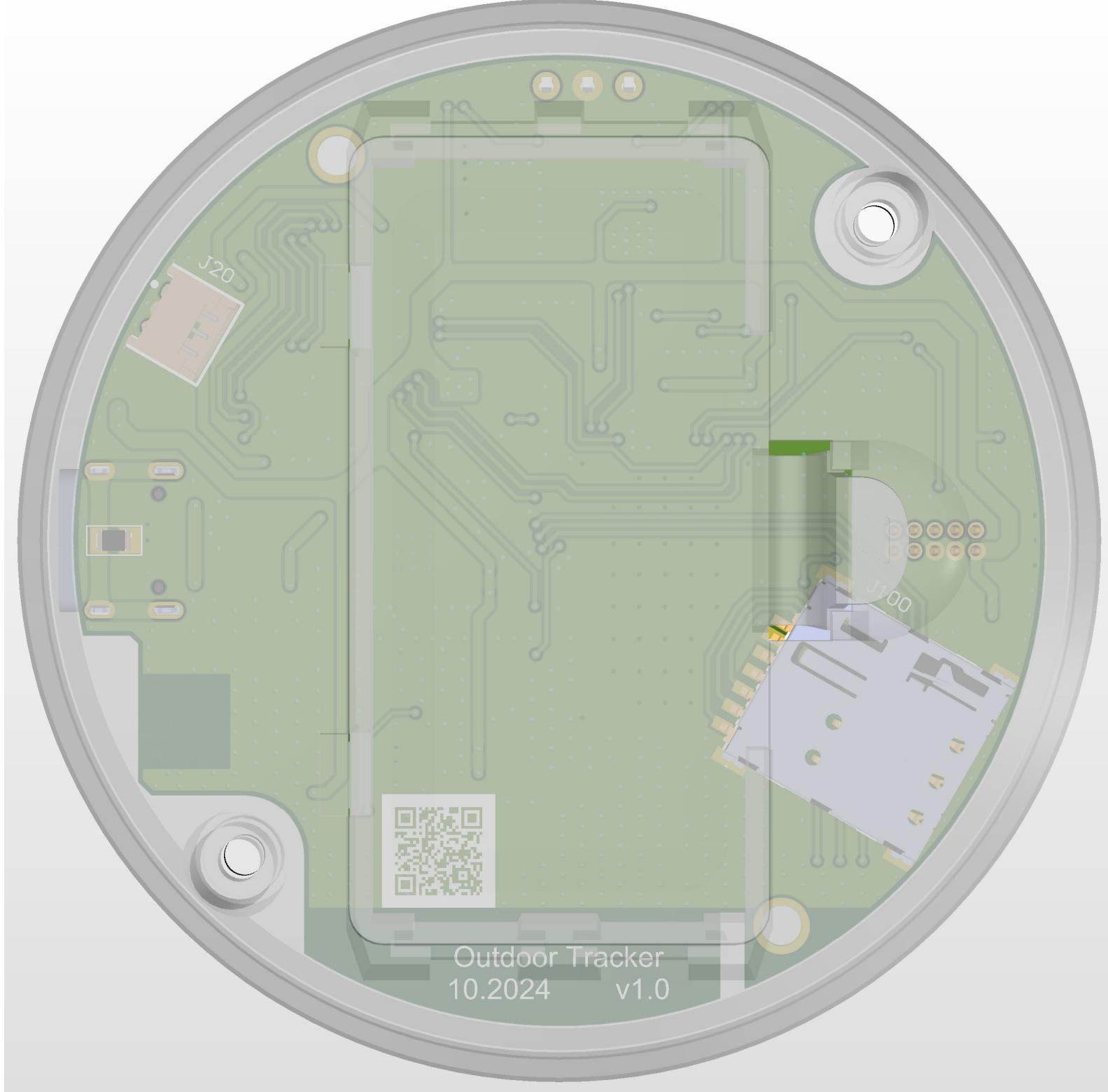




Outdoor Tracker
v1.0
10.2024







Outdoor Tracker
10.2024 v1.0