

Main page overview of the project with links to sub sheets

Designed in KiCAD 9.0.1

Insyght

Sheet: /

File: gst-hw.kicad_sch

Title: Main Page

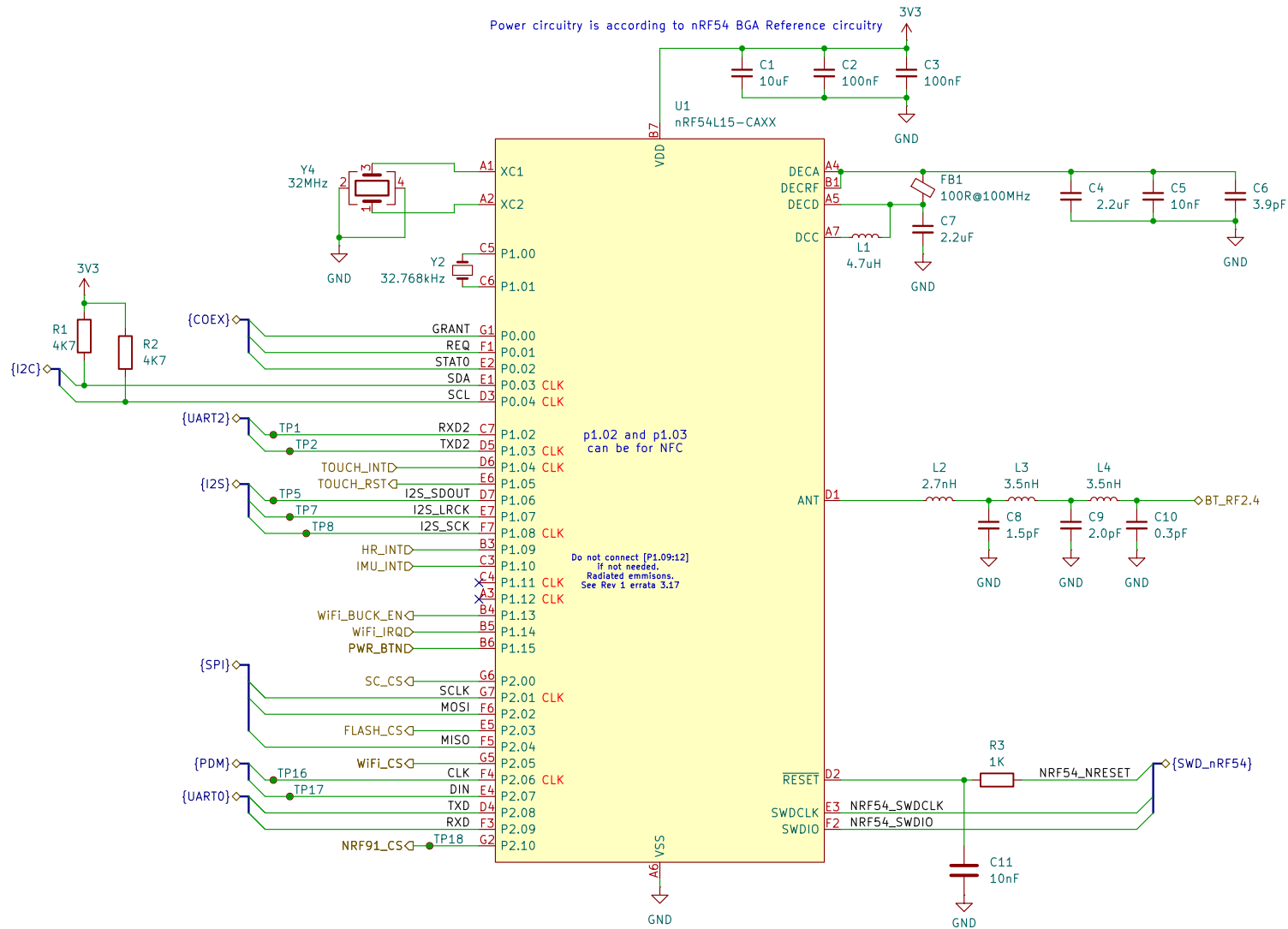
Size: A4

Date: 2025-05-15

Rev: 1.3.0

KiCad E.D.A. 9.0.1

Id: 1/9



Microcontroller schematic
Using nRF54L15

Designed in KiCAD 9.0.1

Insyght

Sheet: /Microcontroller/
File: nRF54.kicad_sch

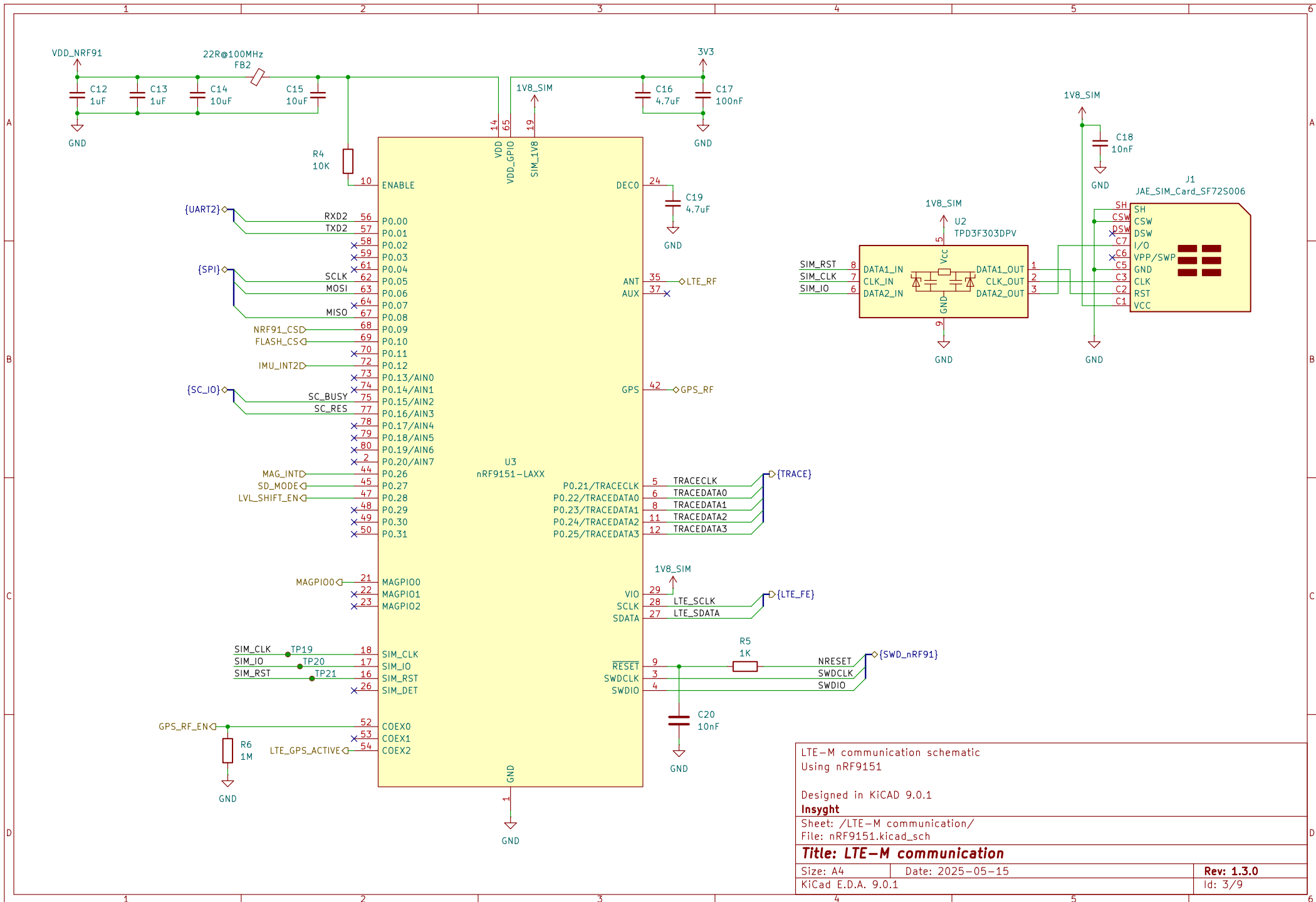
Title: Microcontroller

Size: A4 Date: 2025-05-15

KiCad E.D.A. 9.0.1

Rev: 1.3.0

Id: 2/9

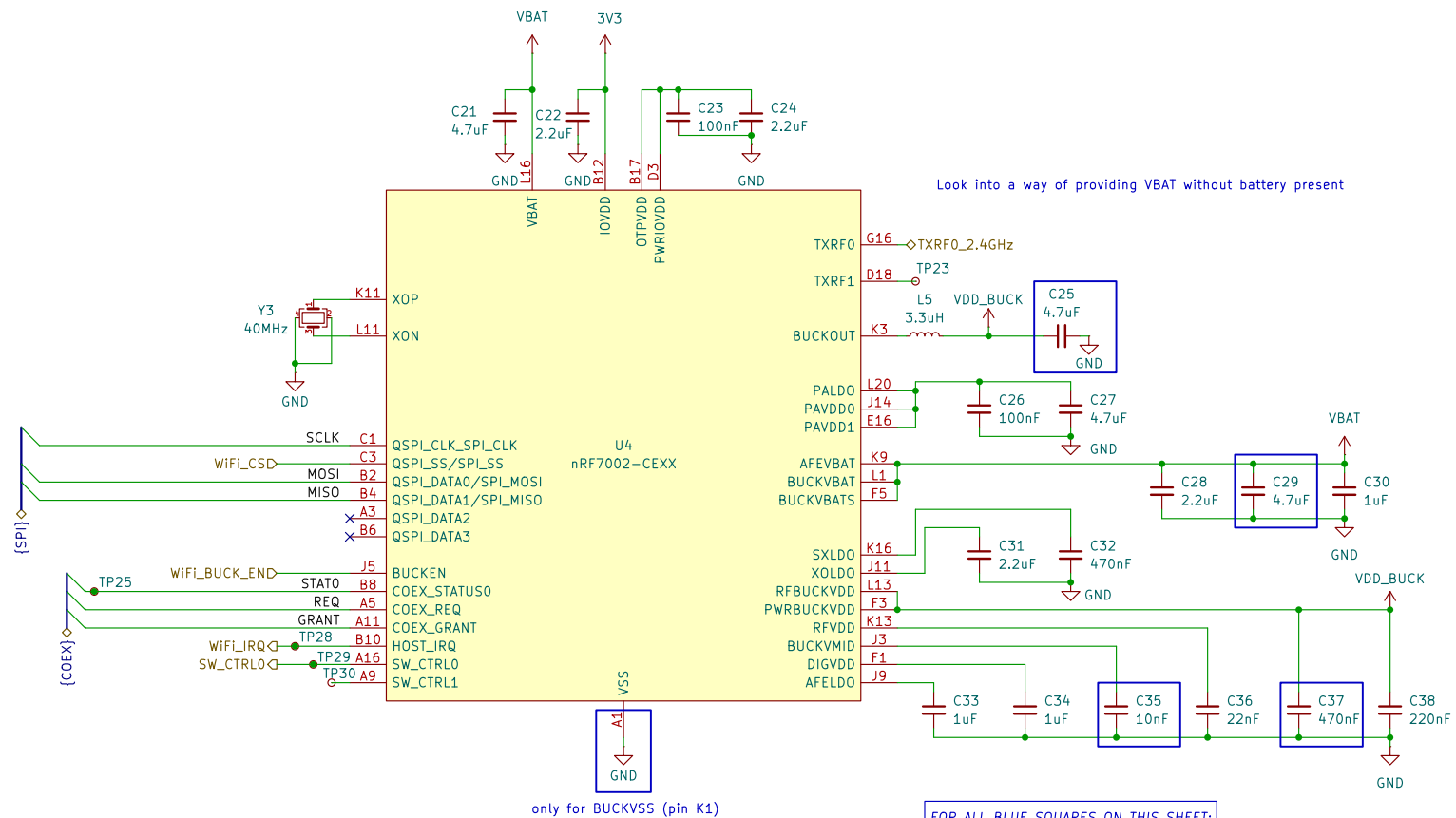


LTE-M communication schematic
Using nRF9151

Designed in KiCAD 9.0.1
Insyght
Sheet: /LTE-M communication/
File: nRF9151.kicad_sch

Title: LTE-M communication

| | | |
|--------------------|------------------|-------------------|
| Size: A4 | Date: 2025-05-15 | Rev: 1.3.0 |
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Look into a way of providing VBAT without battery present

only for BUCKVSS (pin K1)

FOR ALL BLUE SQUARES ON THIS SHEET:
Connect to an isolated metal plane on top layer with vias to isolated metal plane on layer2 connecting only near thermal vias on the IC Paddle. See the layout in layer2.

Wi-Fi communication schematic
Using nRF7002

Designed in KiCAD 9.0.1

Insyght

Sheet: /Wi-Fi communication/
File: nRF7002.kicad_sch

Title: Wi-Fi communication

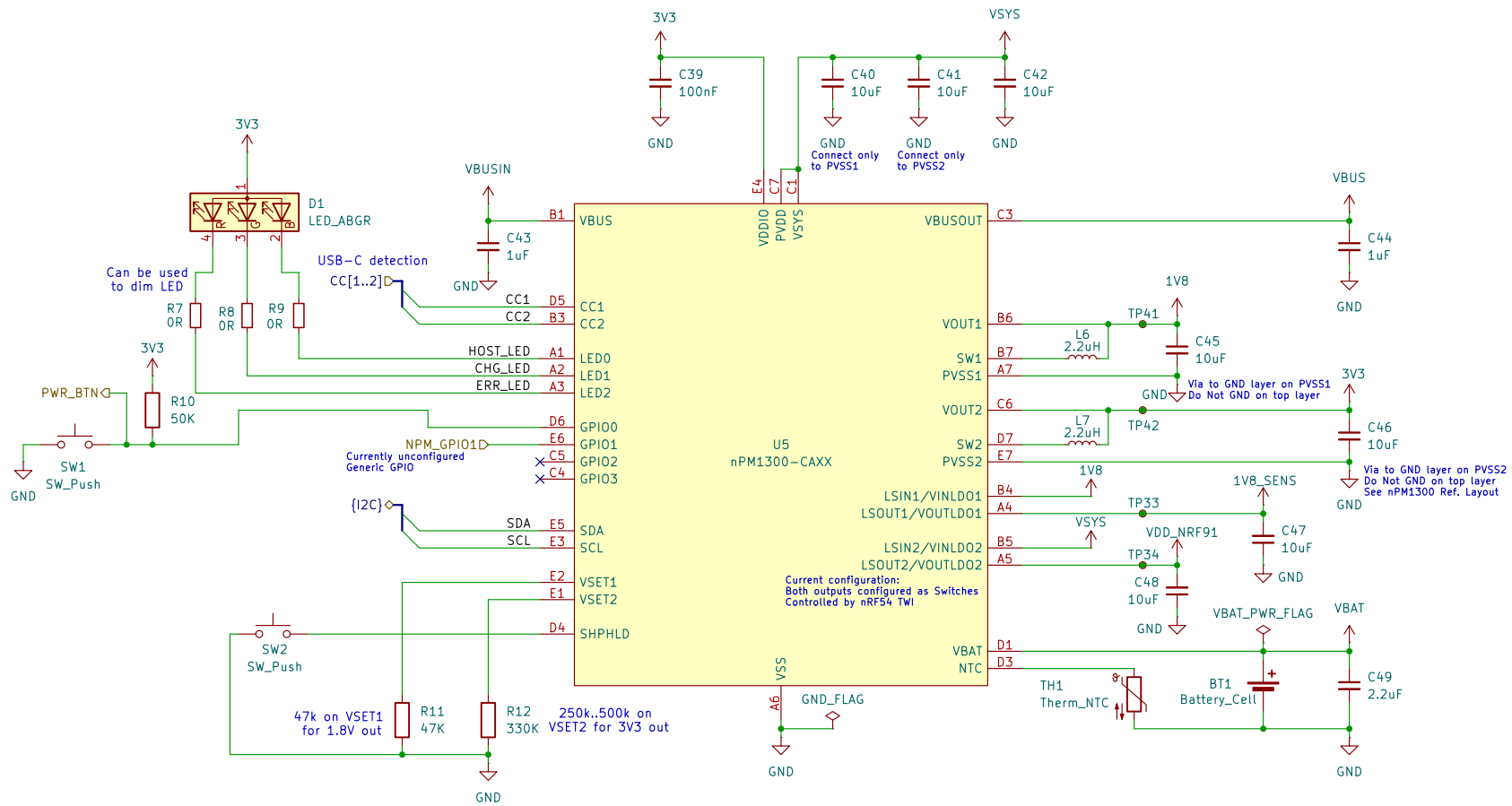
Size: A4 Date: 2025-05-15

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Rev: 1.3.0

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I2C address: 0b1101011 or 0x6B



Power circuitry schematic
Using npm1300

Designed in KiCAD 9.0.1

Insyght

Sheet: /Power Circuit/

File: PMIC.kicad_sch

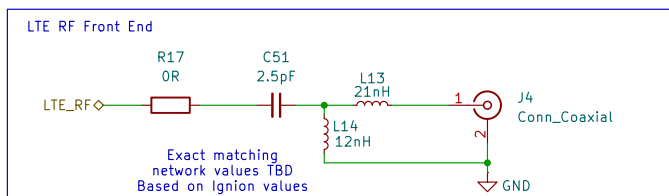
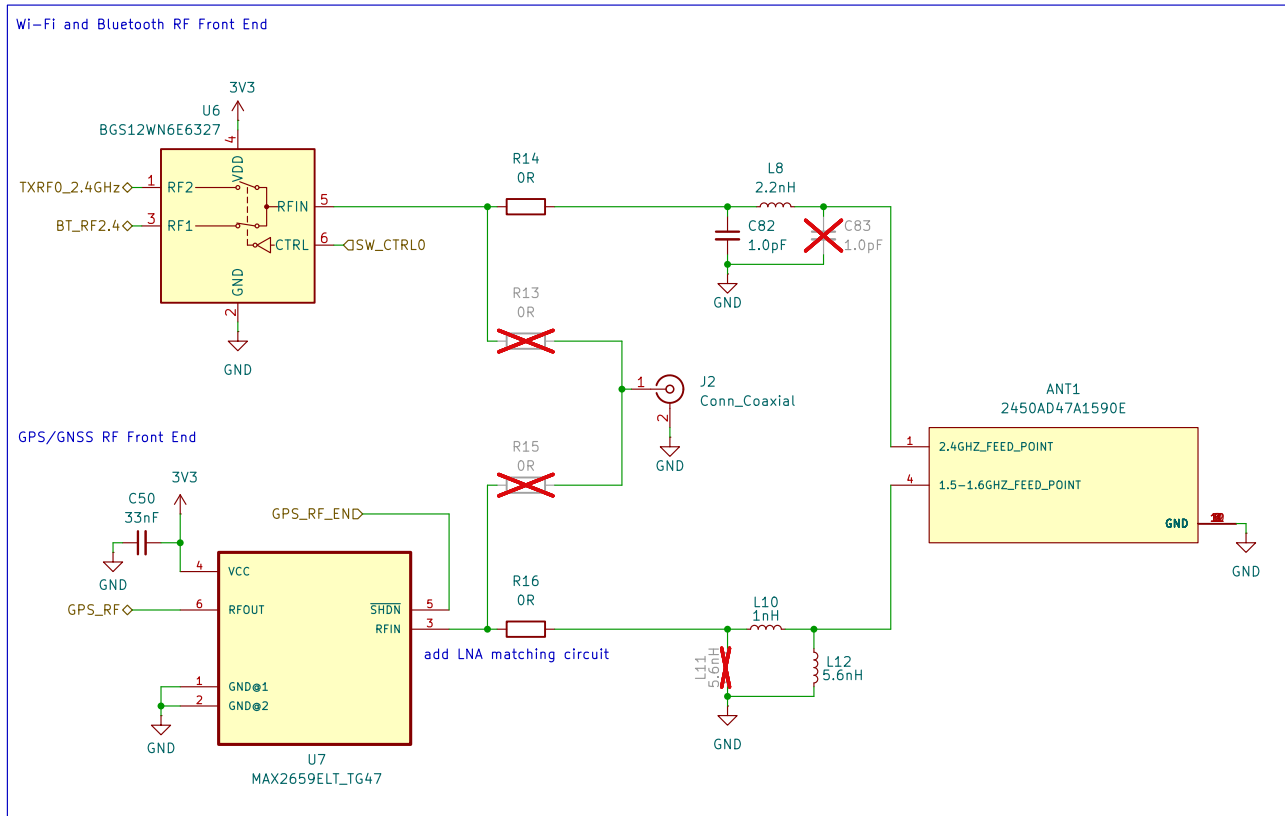
Title: Power circuit

Size: A4 Date: 2025-05-15

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RF Front end schematic
All antenna IO

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Insyght

Sheet: /RF front end/

File: rf_fe.kicad_sch

Title: RF Front End

Size: A4 Date: 2025-05-15

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