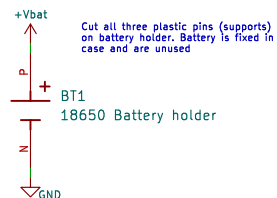


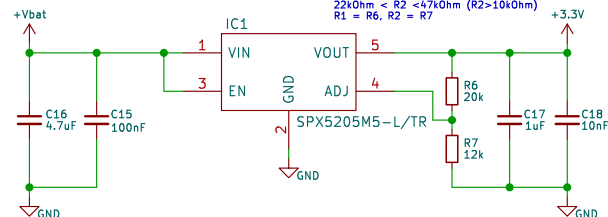
Battery

– 18650 cell – Lilion



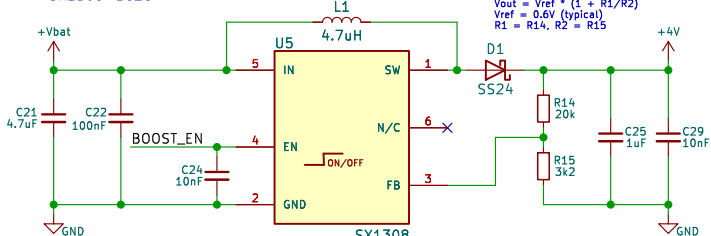
LDO: Battery >> 3.3V

– SPX5205M5–L/TR



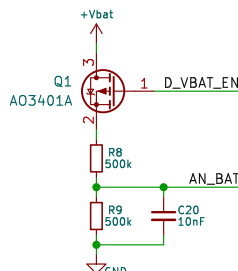
Step-up converter: Battery >> 4V

– SX1308–B628



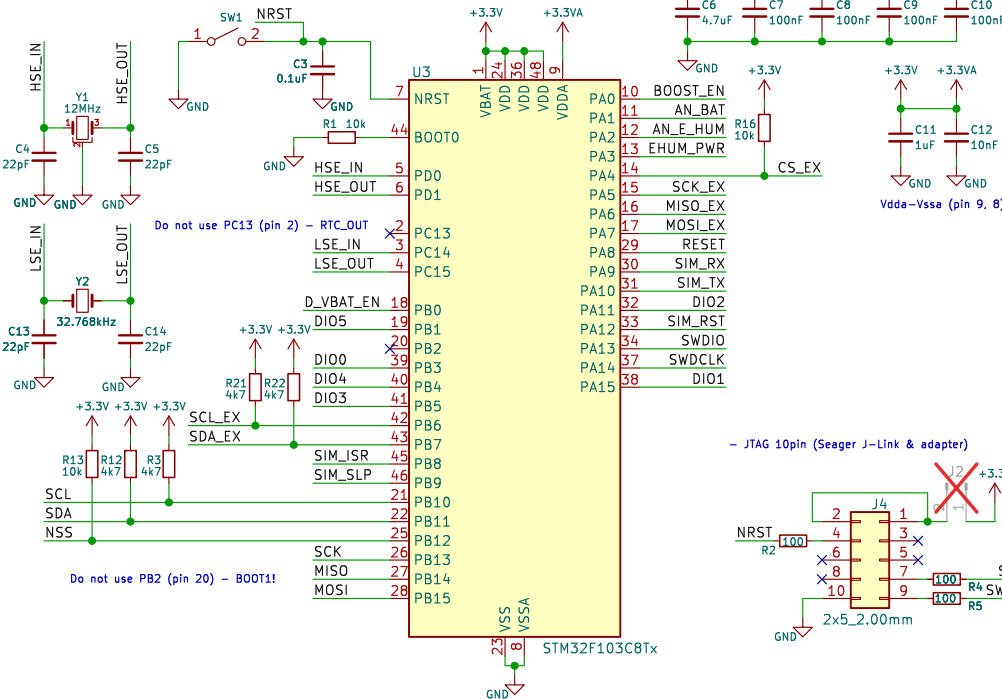
! Place only if you use SIM module instead of LoRa !

– Battery voltage measurement



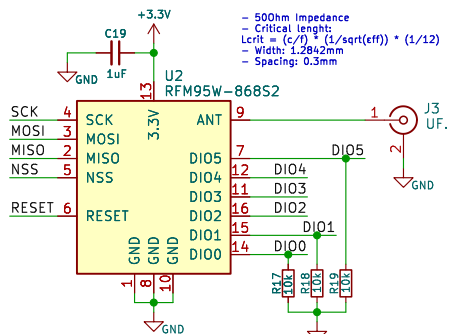
MCU:

– STM32F103C8Tx



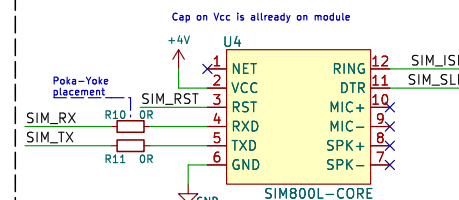
LoRa module

– *RFM95W / SX1276
 *: used (868MHz)



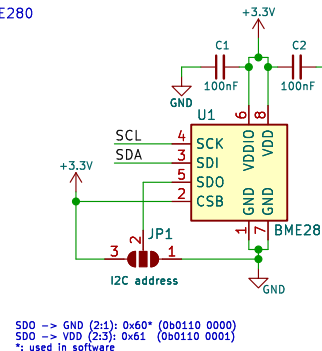
SIM module:

– SIM800L
 * optional

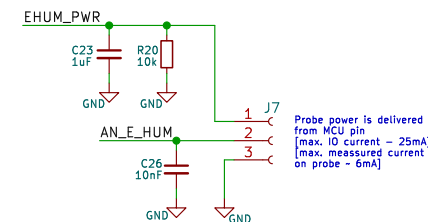


TEMP/HUM/PRESS:

– BME280

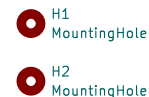


Ground HUM sensor:

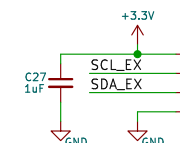


Mounting holes:

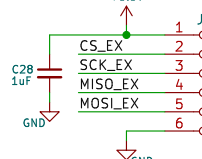
– 2.5mm



I2C expansion:



SPI expansion:



Tinta T.

Sheet: /

File: LoRa_Node.kicad_sch

Title: Greenhouse LoRa node (SIM)

Size: A4

Date: 2025–05–01

KiCad E.D.A. 9.0.1

Rev: 3.1

Id: 1/1