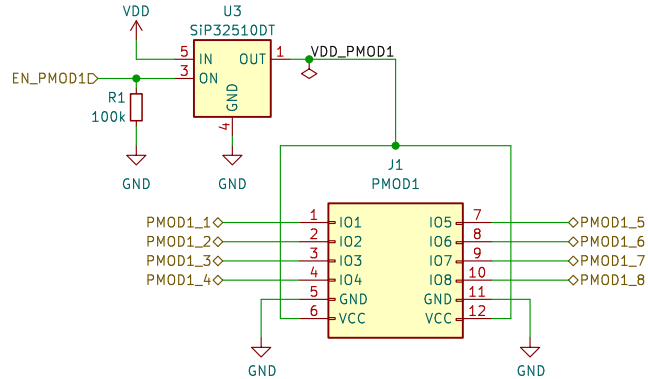
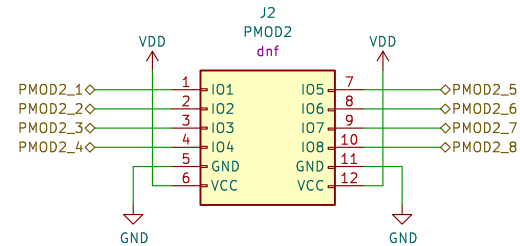




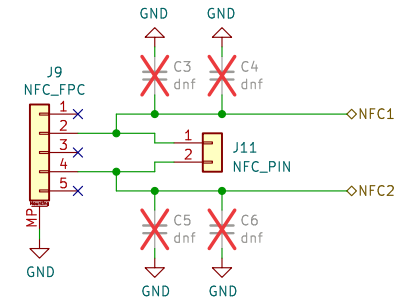
## PMOD1



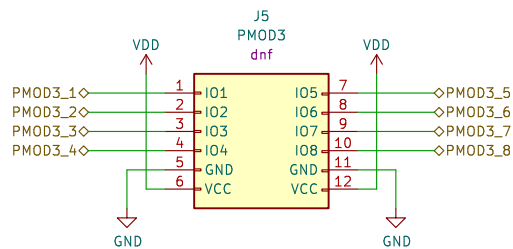
## PMOD2



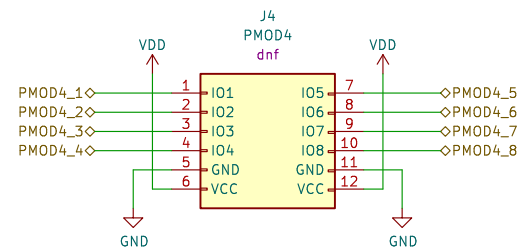
## NFC



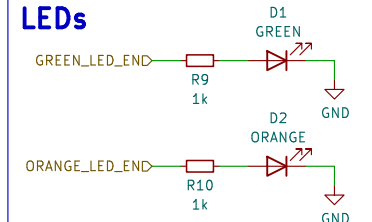
## PMOD3



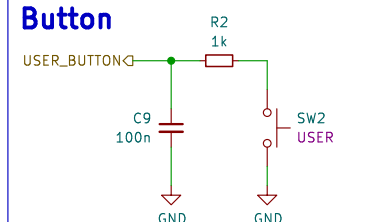
## PMOD4



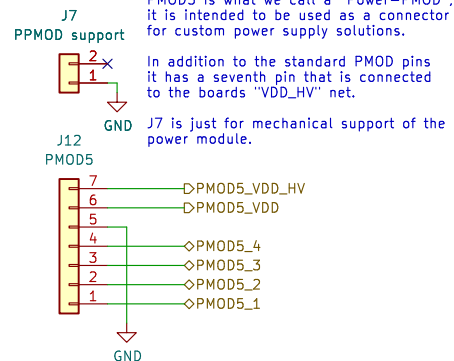
## LEDs



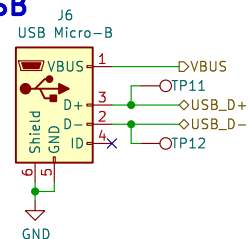
## Button



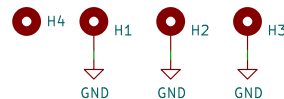
## PMOD5



## USB



Debug connectors can be found on the MCU schematic page



**EVB** Elektronikutvecklingsbyrå

Sheet: I/O

File: io.kicad\_sch

Title: Kite-nRF52840

Size: A4

Date: 2023-04-27

KiCad E.D.A. kicad-cli 7.0.5.1-1-g8f565ef7f0-dirty-deb11

Rev: v1.0

Id: 2/4

**Normal voltage mode:**

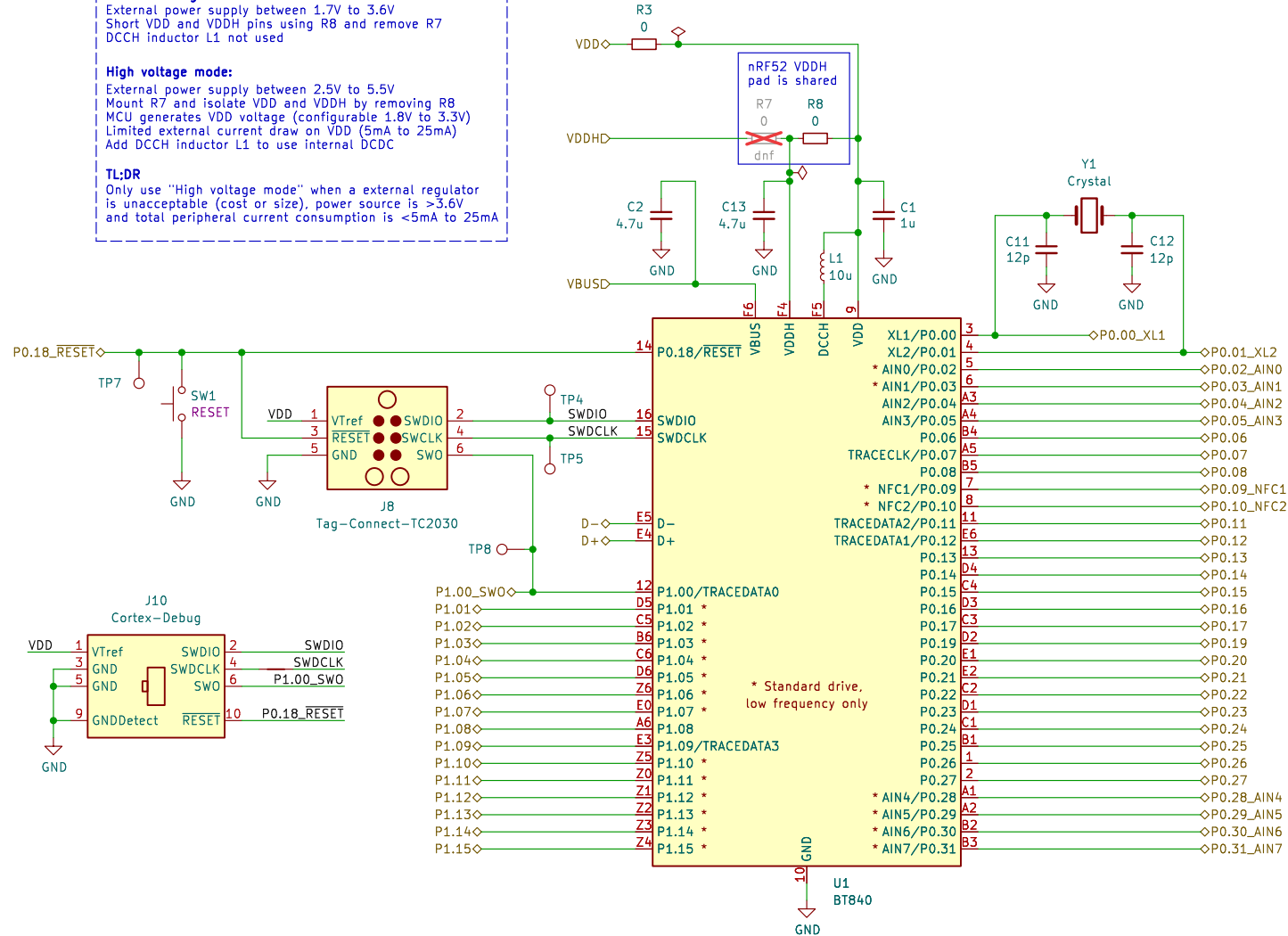
External power supply between 1.7V to 3.6V  
Short VDD and VDDH pins using R8 and remove R7  
DCCH inductor L1 not used

**High voltage mode:**

External power supply between 2.5V to 5.5V  
Mount R7 and isolate VDD and VDDH by removing R8  
MCU generates VDD voltage (configurable 1.8V to 3.3V)  
Limited external current draw on VDD (5mA to 25mA)  
Add DCCH inductor L1 to use internal DCDC

**TL:DR**

Only use "High voltage mode" when a external regulator is unacceptable (cost or size), power source is >3.6V and total peripheral current consumption is <5mA to 25mA



Elektronikutvecklingsbyrån

Sheet: Microcontroller  
File: mcu.kicad\_sch

**Title: Kite-nRF52840**

Size: A4 Date: 2023-04-27  
KiCad E.D.A. kicad-cli 7.0.5.1-1-g8f565ef7f0-dirty-deb11

Rev: v1.0  
Id: 3/4

