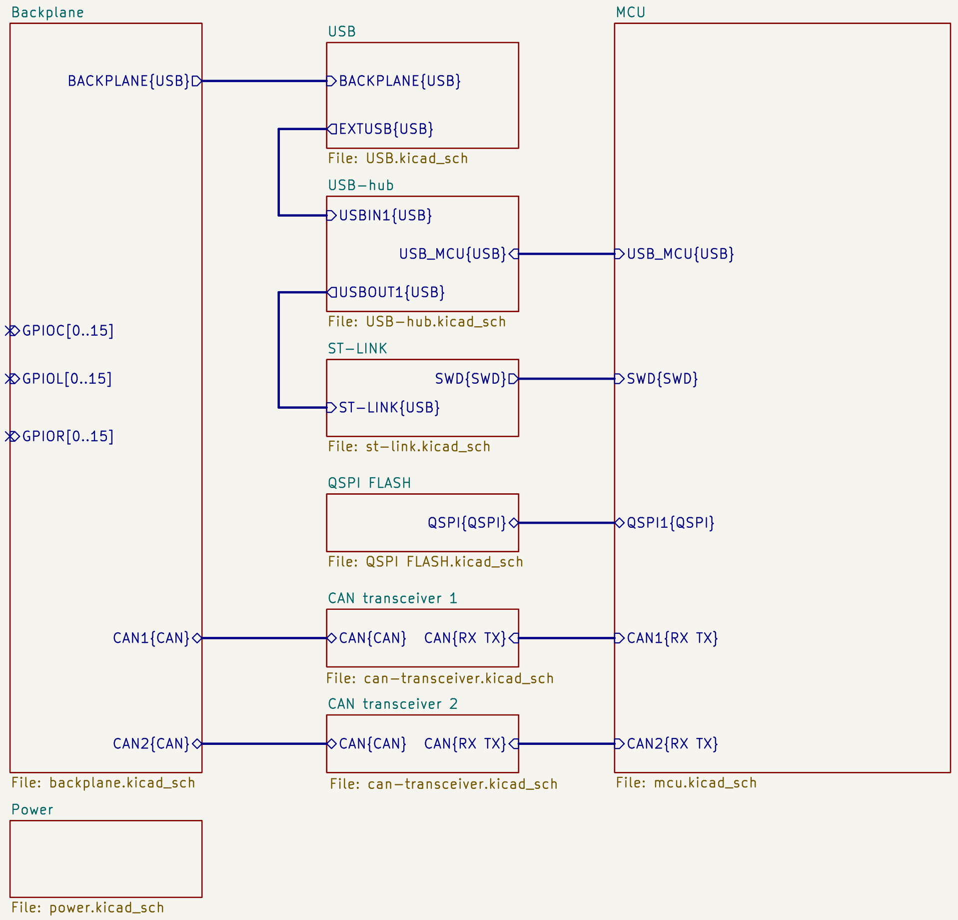
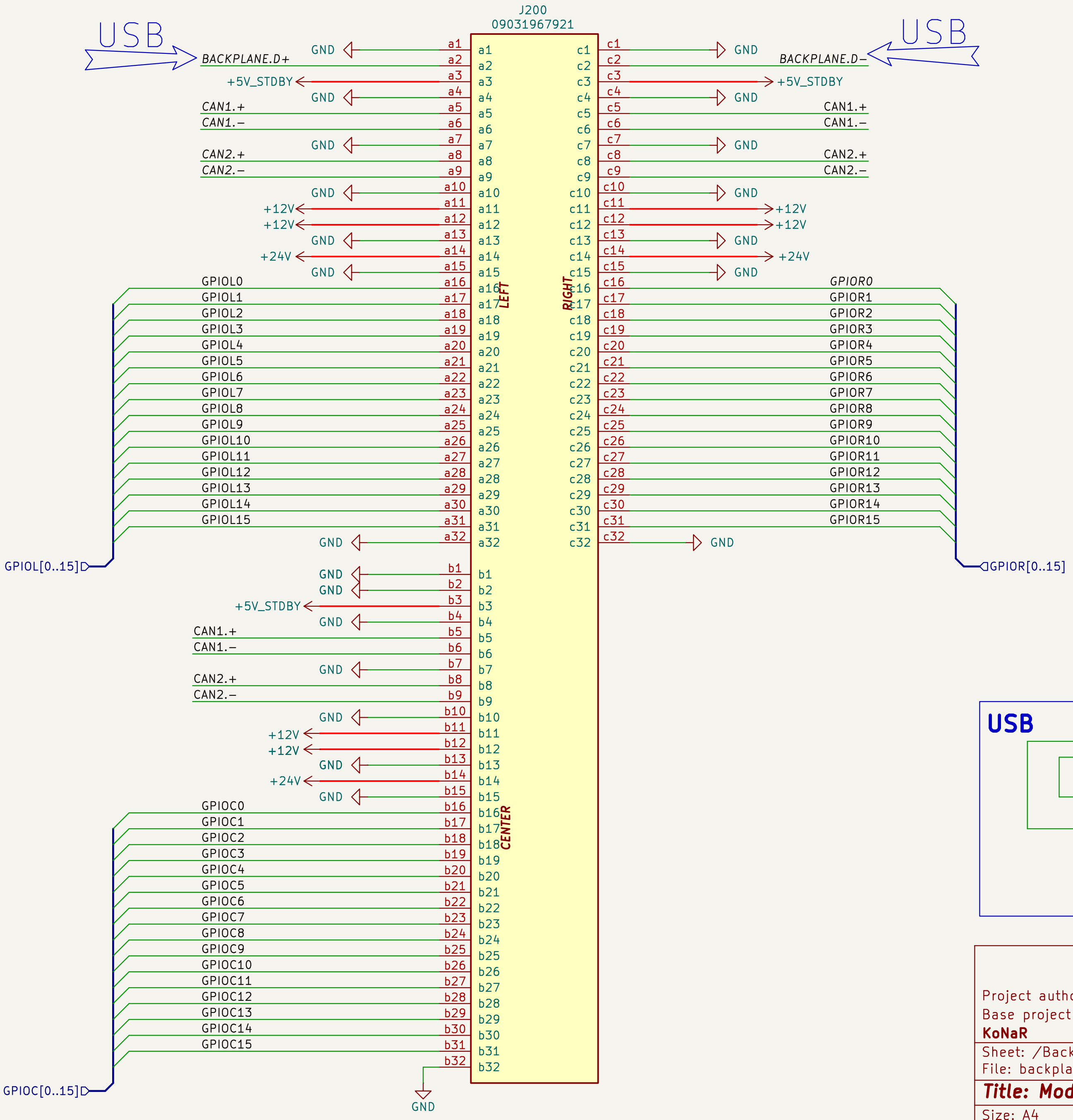
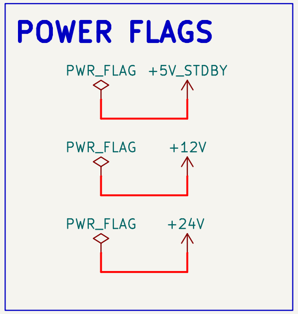


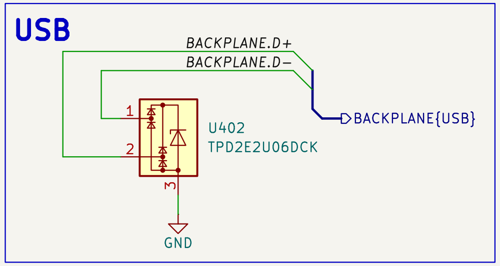
Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR
Sheet: /
File: base–module.kicad_sch

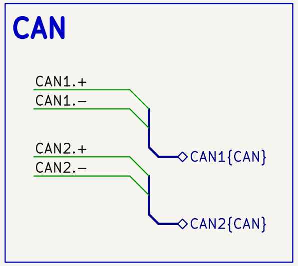
Title: ModuCard BM STM32H562VGT6

Size: A4
Date: 2025–04–18
Rev: 1.1.0
KiCad E.D.A. 9.0.1
Id: 1/10







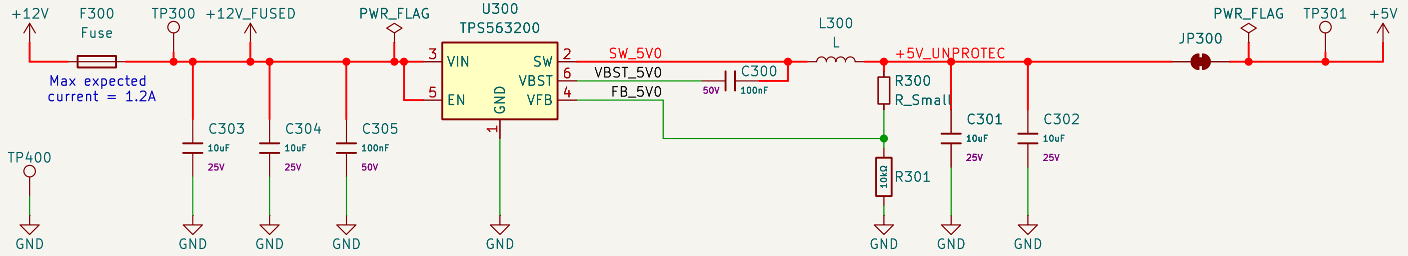


Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR
Sheet: /Backplane/
File: backplane.kicad_sch

Title: ModuCard BM STM32H562VGT6

Size: A4	Date: 2025-04-18	**Rev: 1.1.0**
KiCad E.D.A. 9.0.1		Id: 2/10

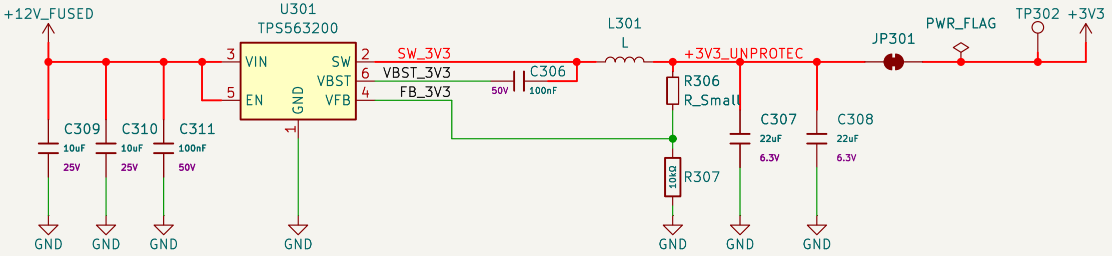
5V DC/DC CONVERTER



$V_{OUT} = 0.765*(1+R300/R301)$

$V_{OUT} = 0.765*(1+54k9/10k) = 4.96V$

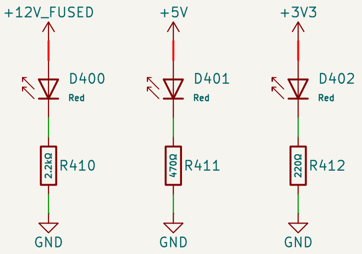
3V3 DC/DC CONVERTER



$V_{OUT} = 0.765*(1+R302/R307)$

$V_{OUT} = 0.765*(1+33k2/10k) = 3.3V$

POWER INDICATOR LEDs

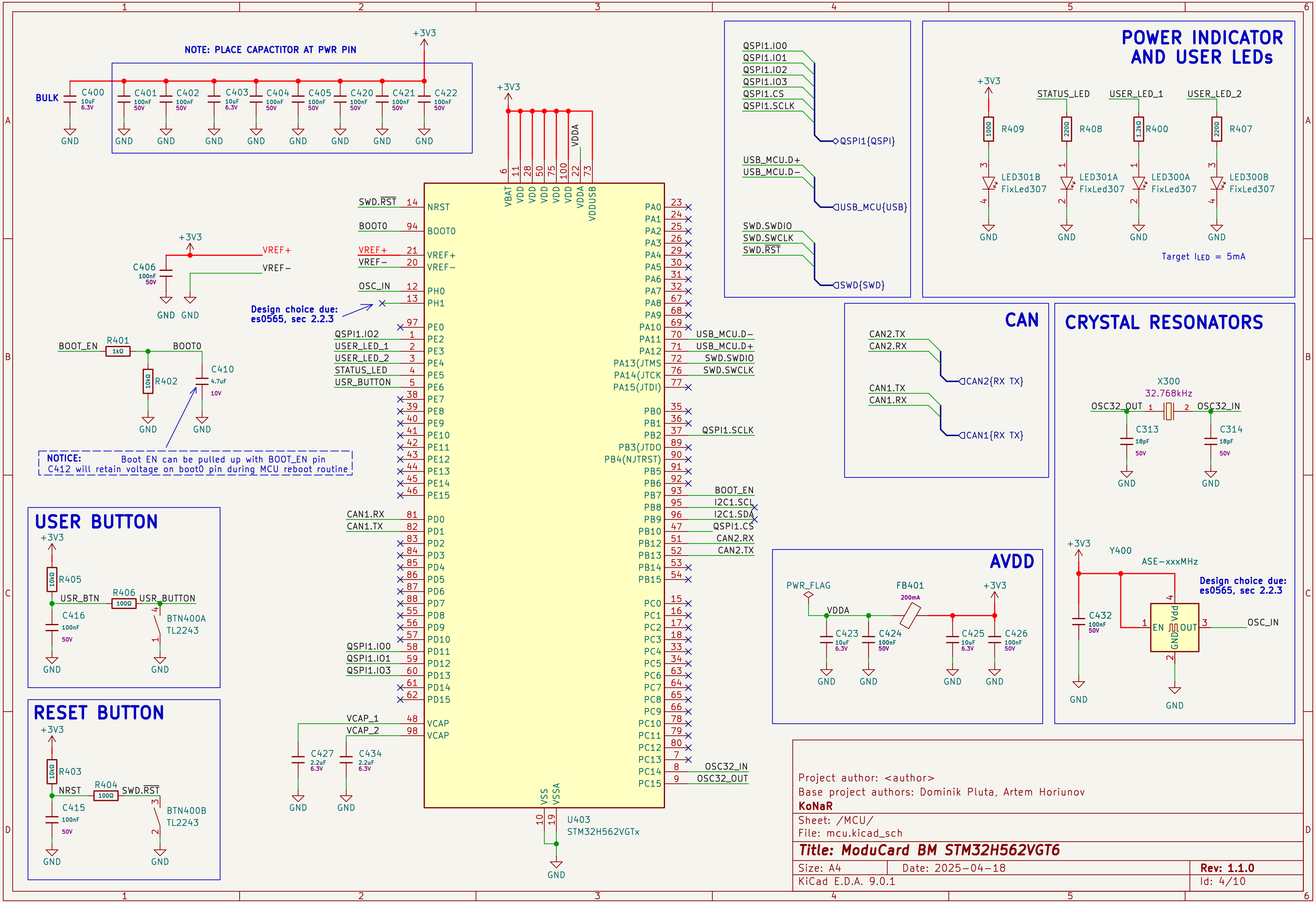


Target I_{LED} = 5mA

Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR
Sheet: /Power/
File: power.kicad_sch

Title: ModuCard BM STM32H562VGT6

Size: A4
Date: 2025-04-18
Rev: 1.1.0
KiCad E.D.A. 9.0.1
Id: 3/10

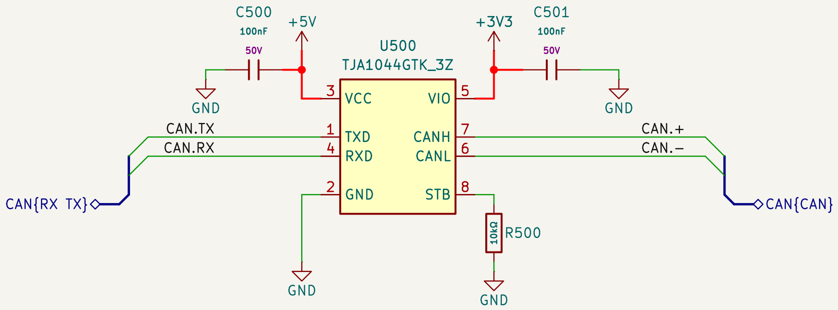


Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR
Sheet: /MCU/
File: mcu.kicad_sch

Title: ModuCard BM STM32H562VGT6

Size: A4
Date: 2025-04-18
Rev: 1.1.0
KiCad E.D.A. 9.0.1
Id: 4/10

CAN TRANSCEIVER



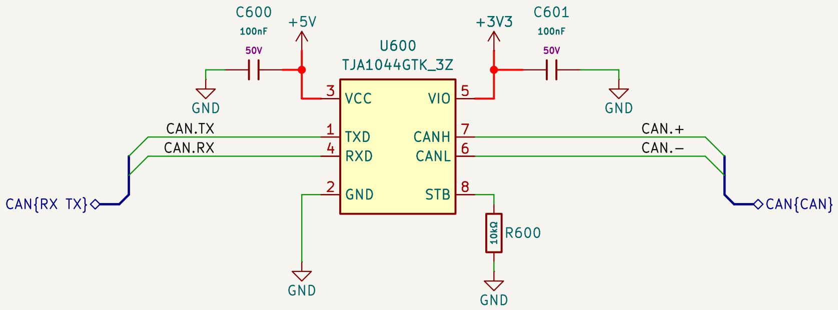
Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /CAN transceiver 1/
File: can-transceiver.kicad_sch

Title: ModuCard BM STM32H562VGT6

Size: A4	Date: 2025-04-18	**Rev: 1.1.0**
KiCad E.D.A. 9.0.1		Id: 5/10

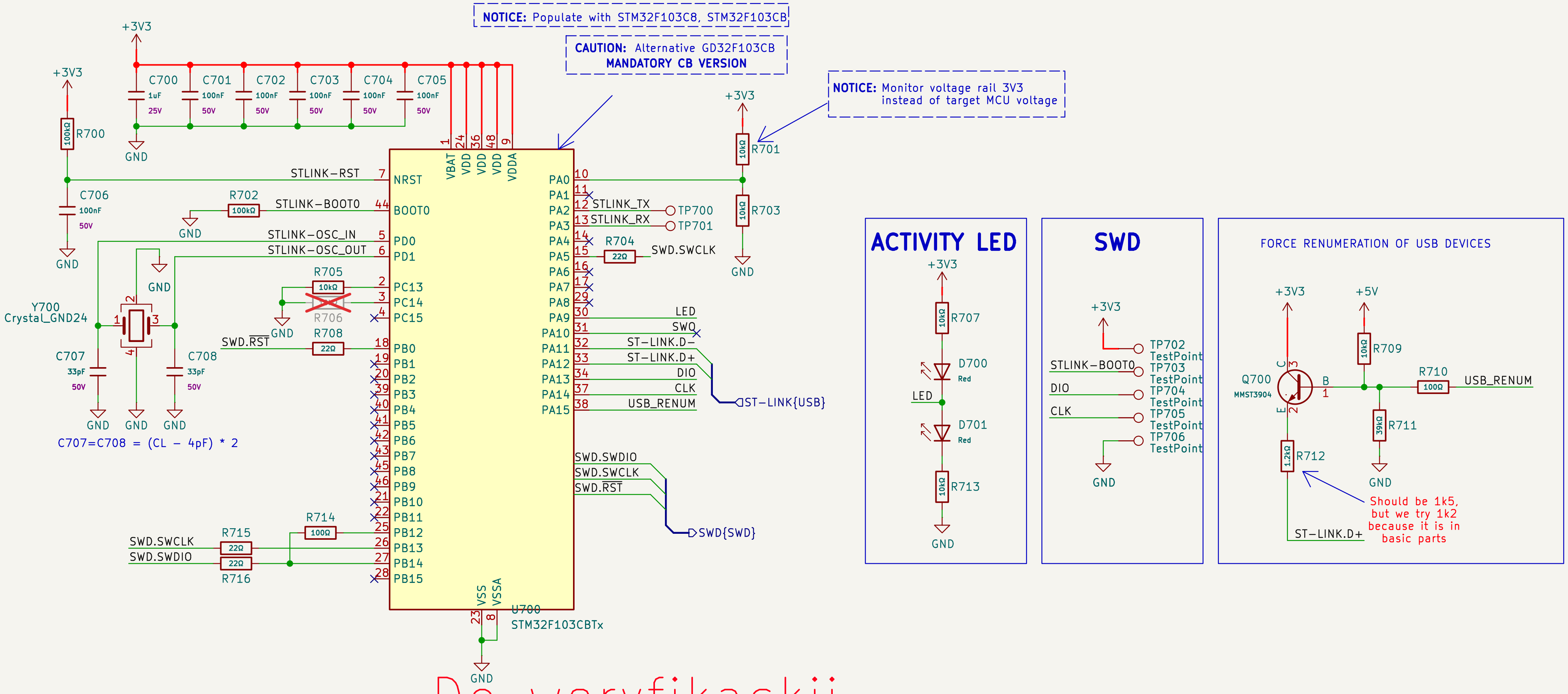
CAN TRANSCEIVER



Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR
Sheet: /CAN transceiver 2/
File: can-transceiver.kicad_sch

Title: ModuCard BM STM32H562VGT6

Size: A4
Date: 2025-04-18
Rev: 1.1.0
KiCad E.D.A. 9.0.1
Id: 6/10



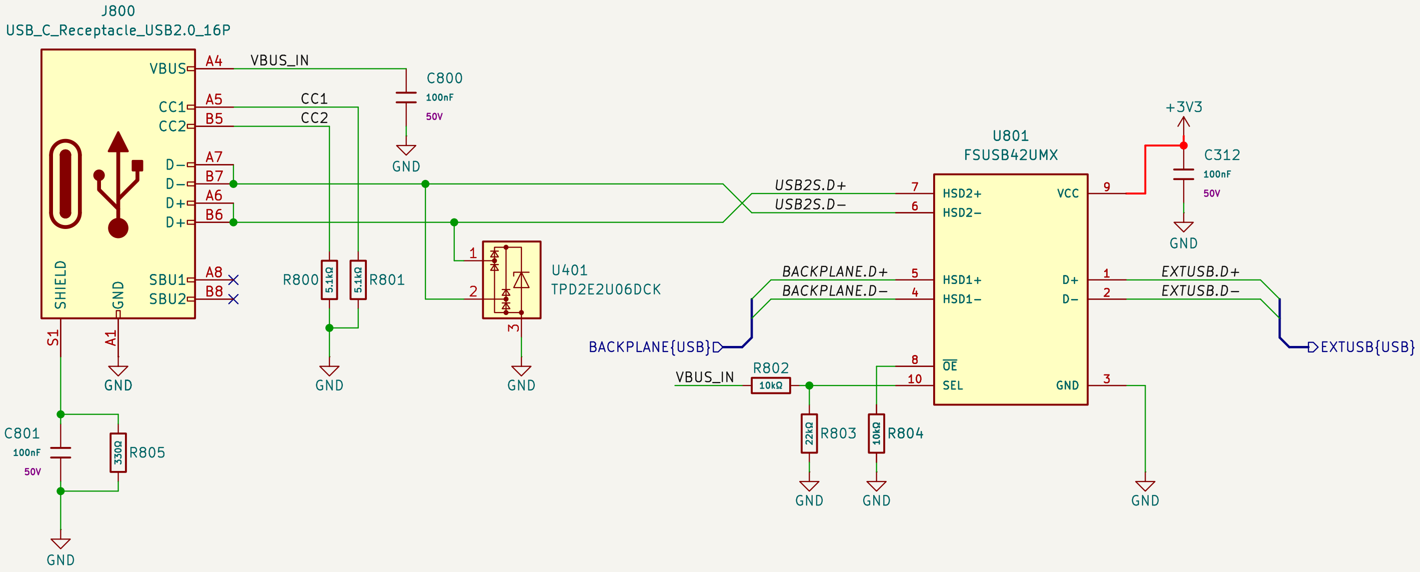
Do weryfikackji

Credit to:
https://github.com/lbthomsen/st-link/tree/master
https://stm32world.com/wiki/DIY_STM32_Programmer_(ST-Link/V2-1)
for providing amazing reverse engeenering of ST−link

Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR
Sheet: /ST−LINK/
File: st−link.kicad_sch

Title: ModuCard BM STM32H562VGT6

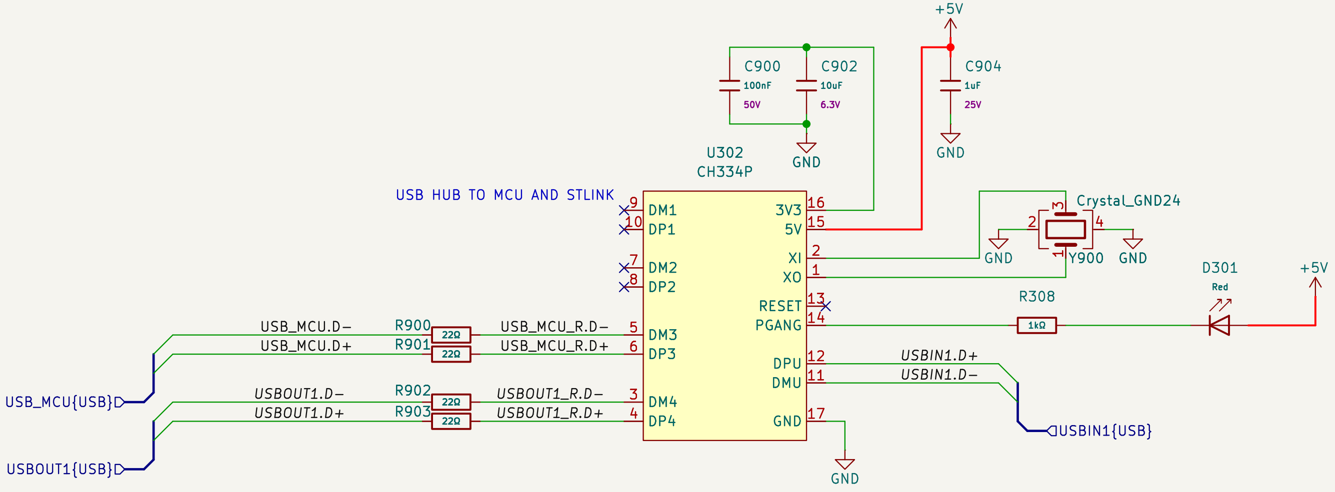
Size: A4 Date: 2025−04−18 **Rev: 1.1.0**
KiCad E.D.A. 9.0.1 Id: 7/10



Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR
Sheet: /USB/
File: USB.kicad_sch

Title: ModuCard BM STM32H562VGT6

Size: A4	Date: 2025-04-18	**Rev: 1.1.0**
KiCad E.D.A. 9.0.1		Id: 8/10



Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /USB−hub/
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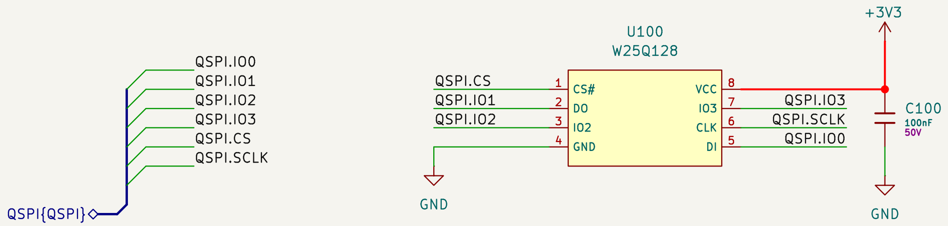
Title: ModuCard BM STM32H562VGT6

Size: A4	Date: 2025−04−18	**Rev: 1.1.0**
KiCad E.D.A. 9.0.1		Id: 9/10



Project author: <author>
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /QSPI FLASH/
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Title: ModuCard BM STM32H562VGT6

Size: A4 Date: 2025-04-18 **Rev: 1.1.0**
KiCad E.D.A. 9.0.1 Id: 10/10