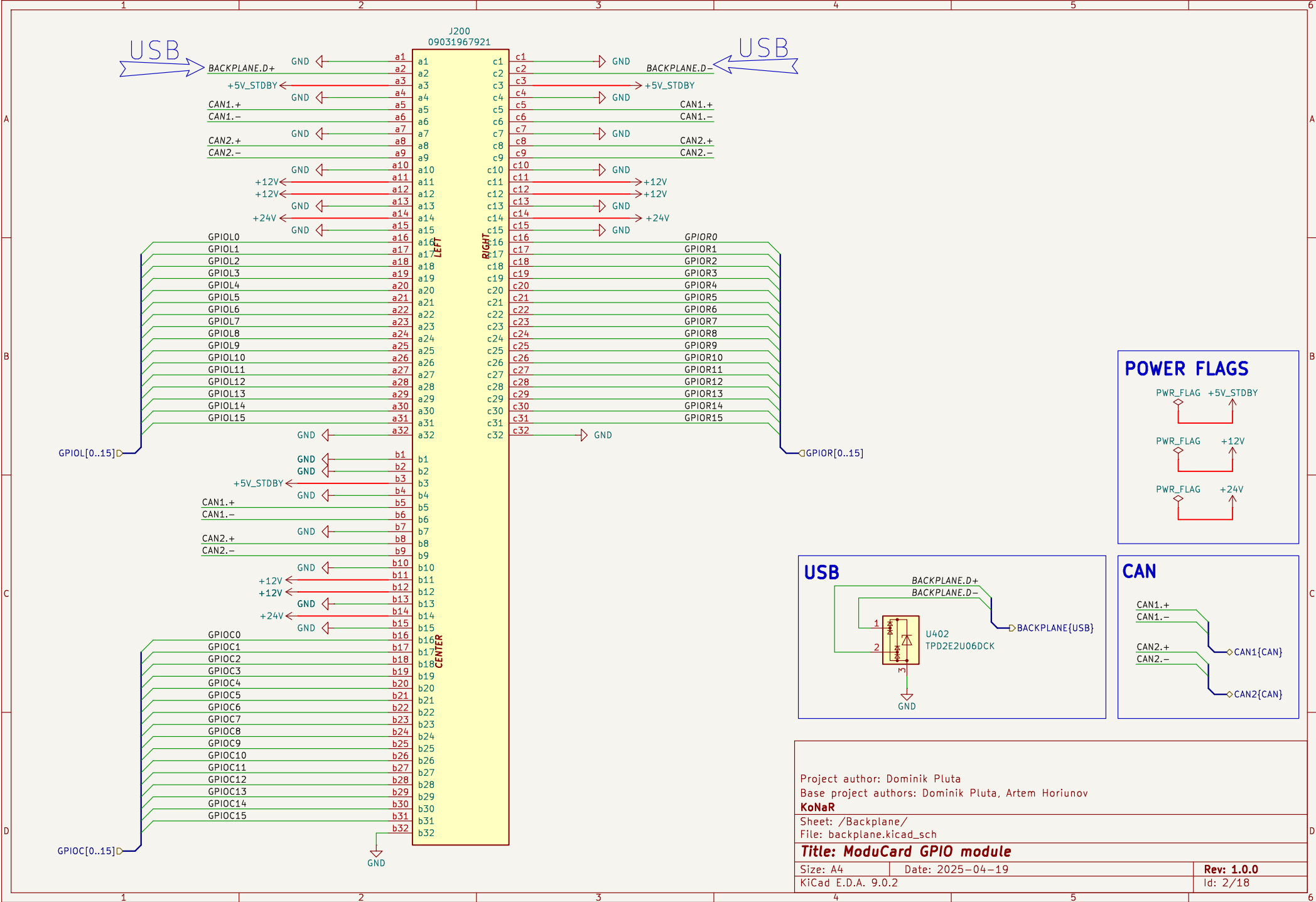


Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

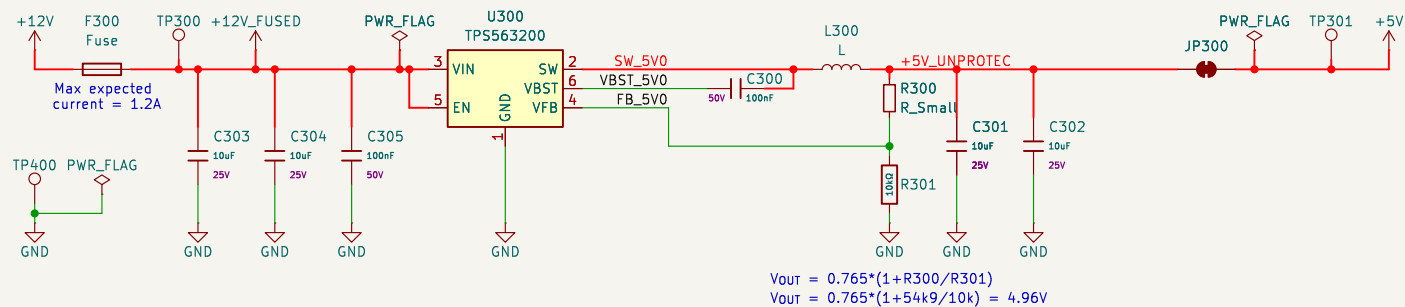
Sheet: /
File: `gpio-module.kicad_sch`

Title: ModuCard GPIO module

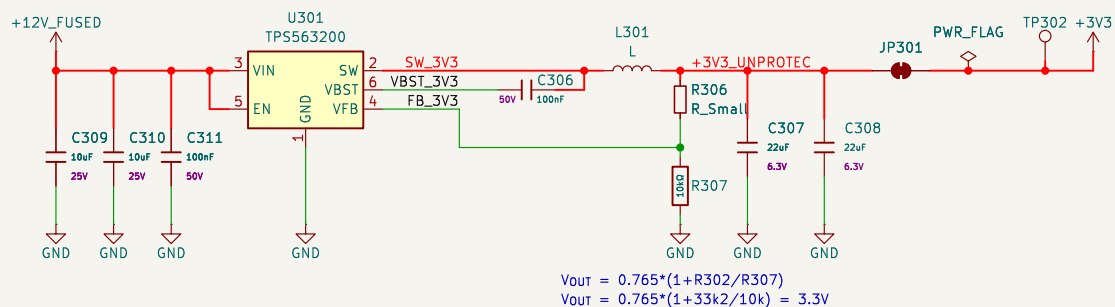
Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 1/18



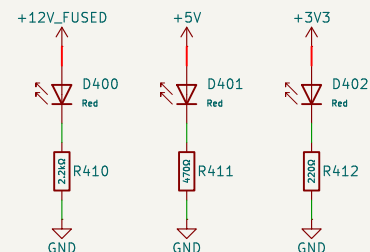
5V DC/DC CONVERTER



3V3 DC/DC CONVERTER



POWER INDICATOR LEDs



Target I_{LED} = 5mA



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

Sheet: /Power/
File: power.kicad_sch

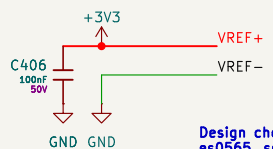
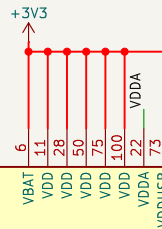
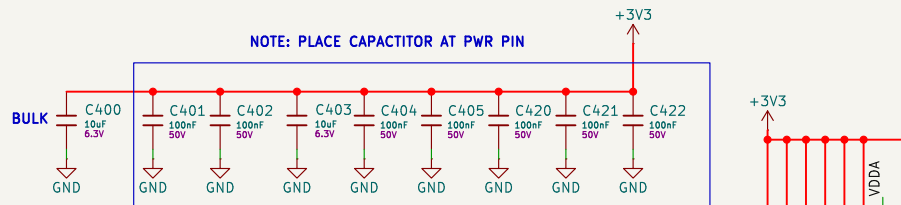
Title: ModuCard GPIO module

Size: A4 Date: 2025-04-19

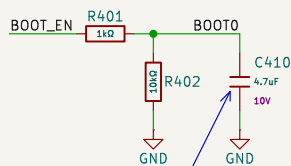
KiCad E.D.A. 9.0.2

Rev: 1.0.0

Id: 3/18

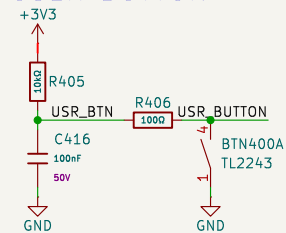


Design choice due:
es0565, sec 2.2.3

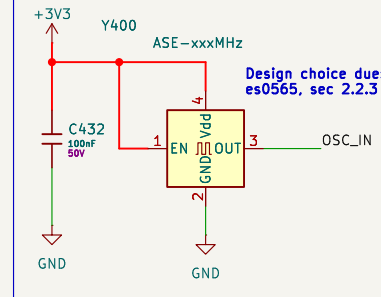
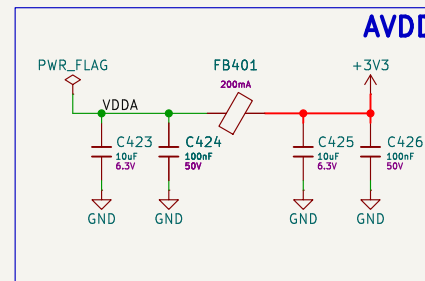
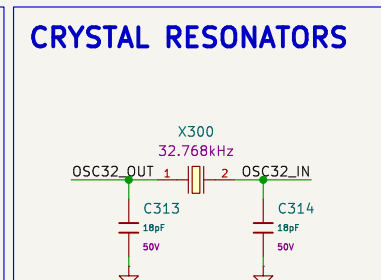
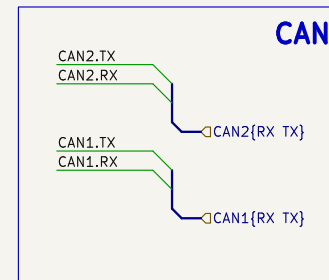
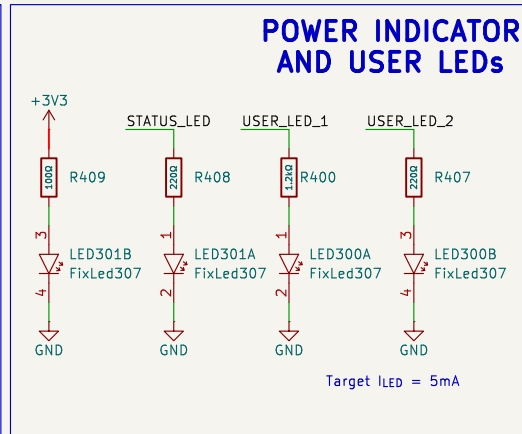
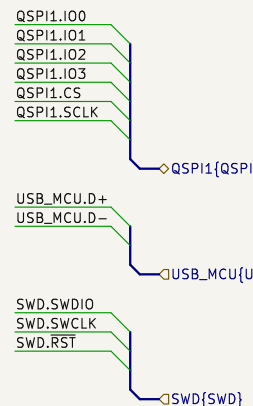
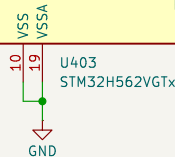
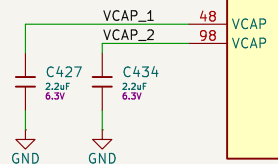
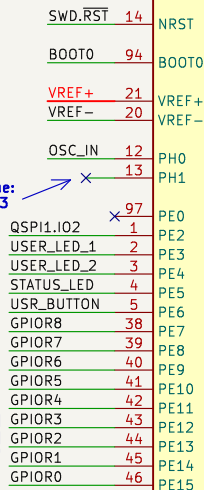
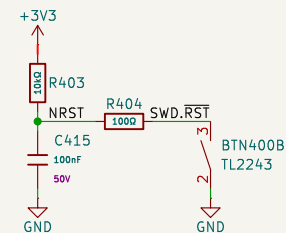


NOTICE: Boot EN can be pulled up with BOOT_EN pin
C412 will retain voltage on boot0 pin during MCU reboot routine

USER BUTTON



RESET BUTTON



Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov

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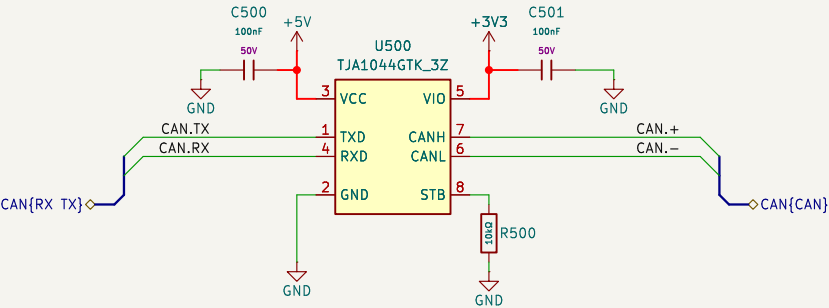
Sheet: /MCU/
File: mcu.kicad_sch

Title: ModuCard GPIO module

Size: A4 Date: 2025-04-19
KiCad E.D.A. 9.0.2

Rev: 1.0.0
Id: 4/18

CAN TRANSCEIVER



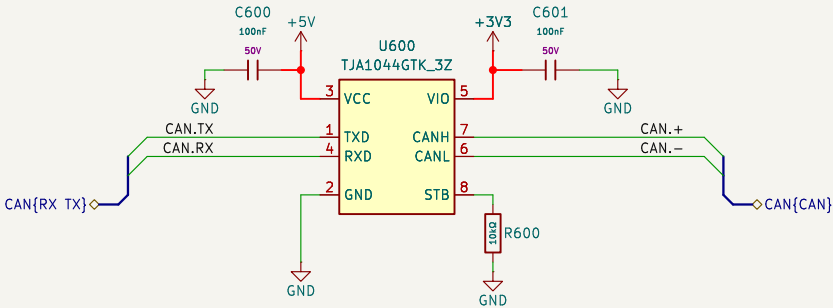
Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

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

Title: ModuCard GPIO module

Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 5/18

CAN TRANSCEIVER

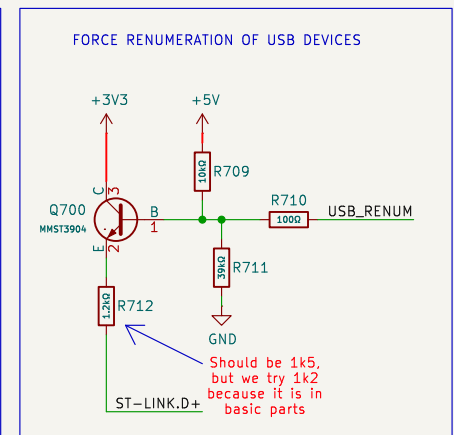
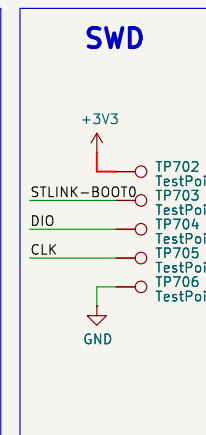
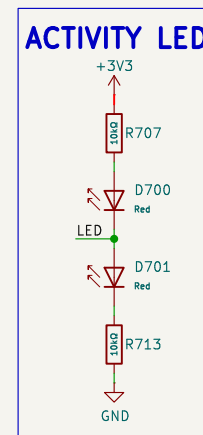
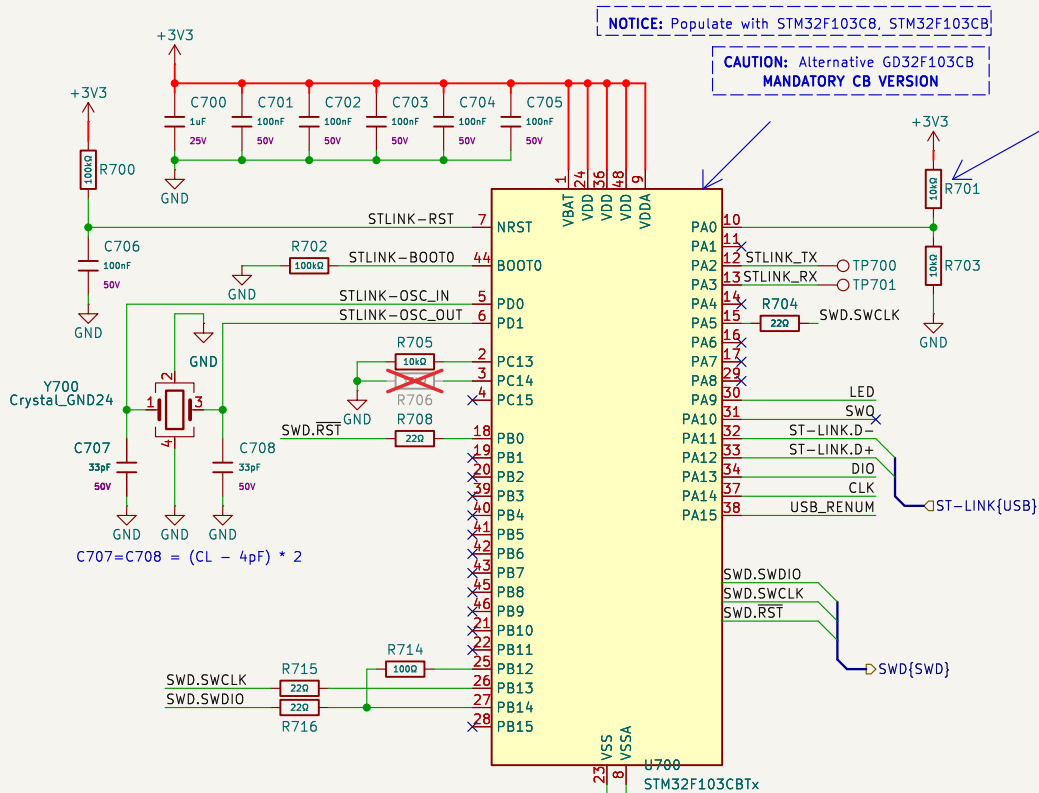


Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /CAN transceiver 2/
File: can-transceiver.kicad_sch

Title: ModuCard GPIO module

Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 6/18



Do weryfikackji

Credit to:
<https://github.com/lbthomsen/st-link/tree/master>
[https://stm32world.com/wiki/DIY_STM32_Programmer_\(ST-Link/V2-1\)](https://stm32world.com/wiki/DIY_STM32_Programmer_(ST-Link/V2-1))
 for providing amazing reverse engineering of ST-Link

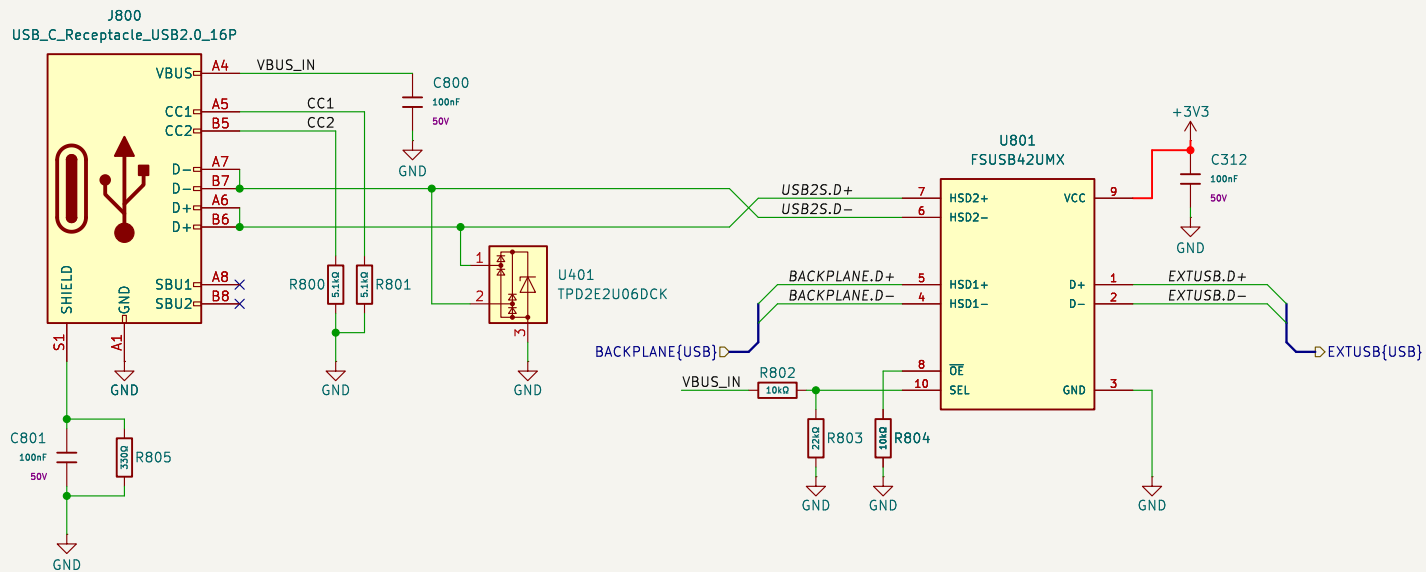
Project author: Dominik Pluta
 Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /ST-LINK/
 File: st-link.kicad_sch

Title: ModuCard GPIO module

Size: A4 Date: 2025-04-19
 KiCad E.D.A. 9.0.2

Rev: 1.0.0
 Id: 7/18



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

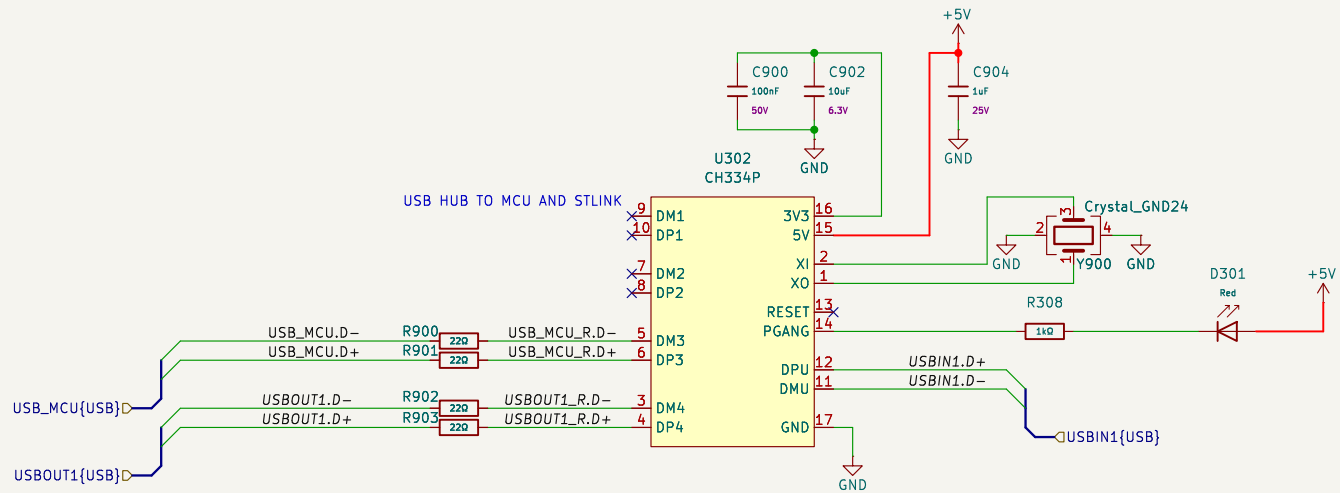
Title: ModuCard GPIO module

Size: A4 Date: 2025-04-19

KiCad E.D.A. 9.0.2

Rev: 1.0.0

Id: 8/18



Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
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Sheet: /USB-hub/
File: USB-hub.kicad_sch

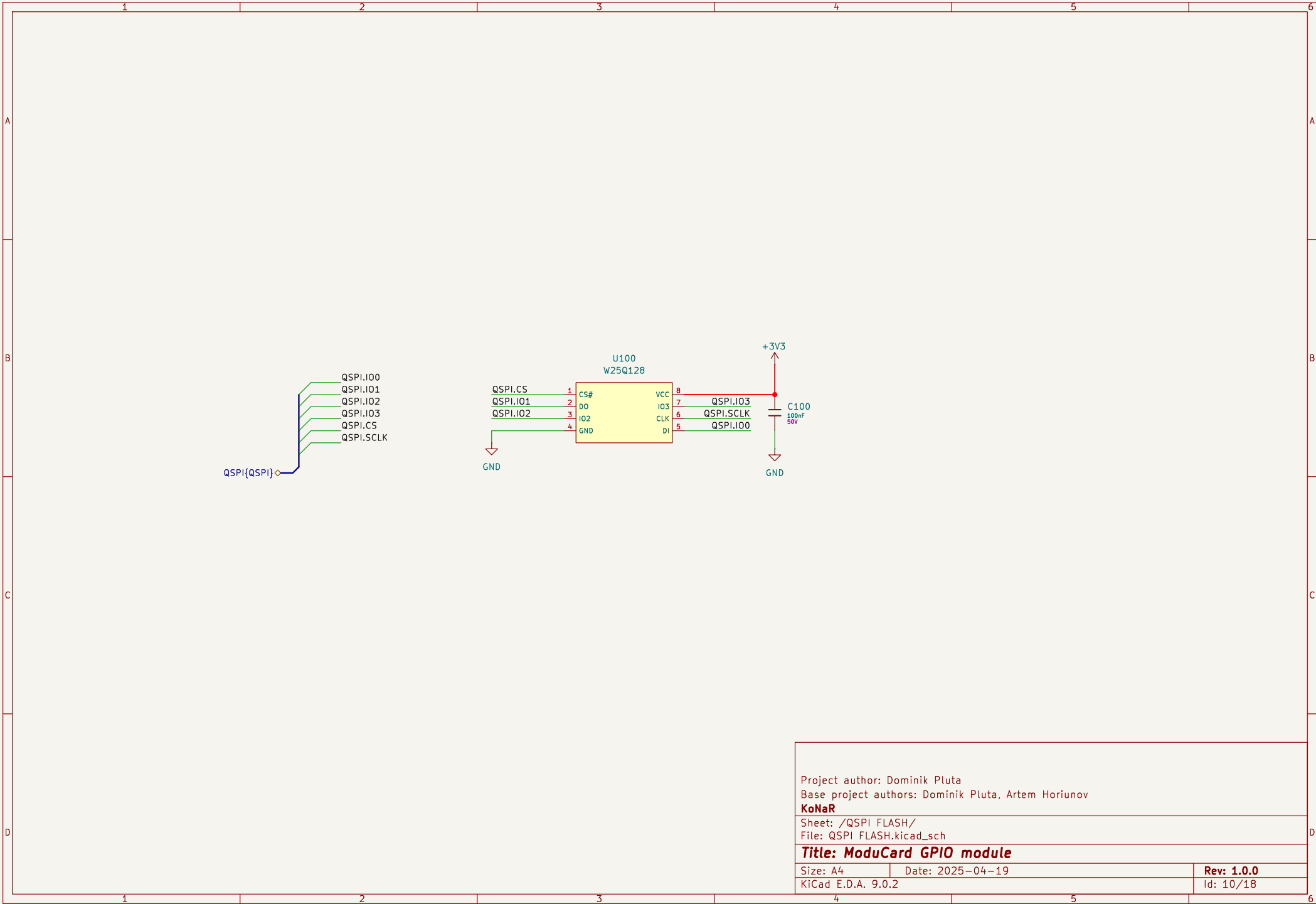
Title: ModuCard GPIO module

Size: A4 Date: 2025-04-19

KiCad E.D.A. 9.0.2

Rev: 1.0.0

Id: 9/18

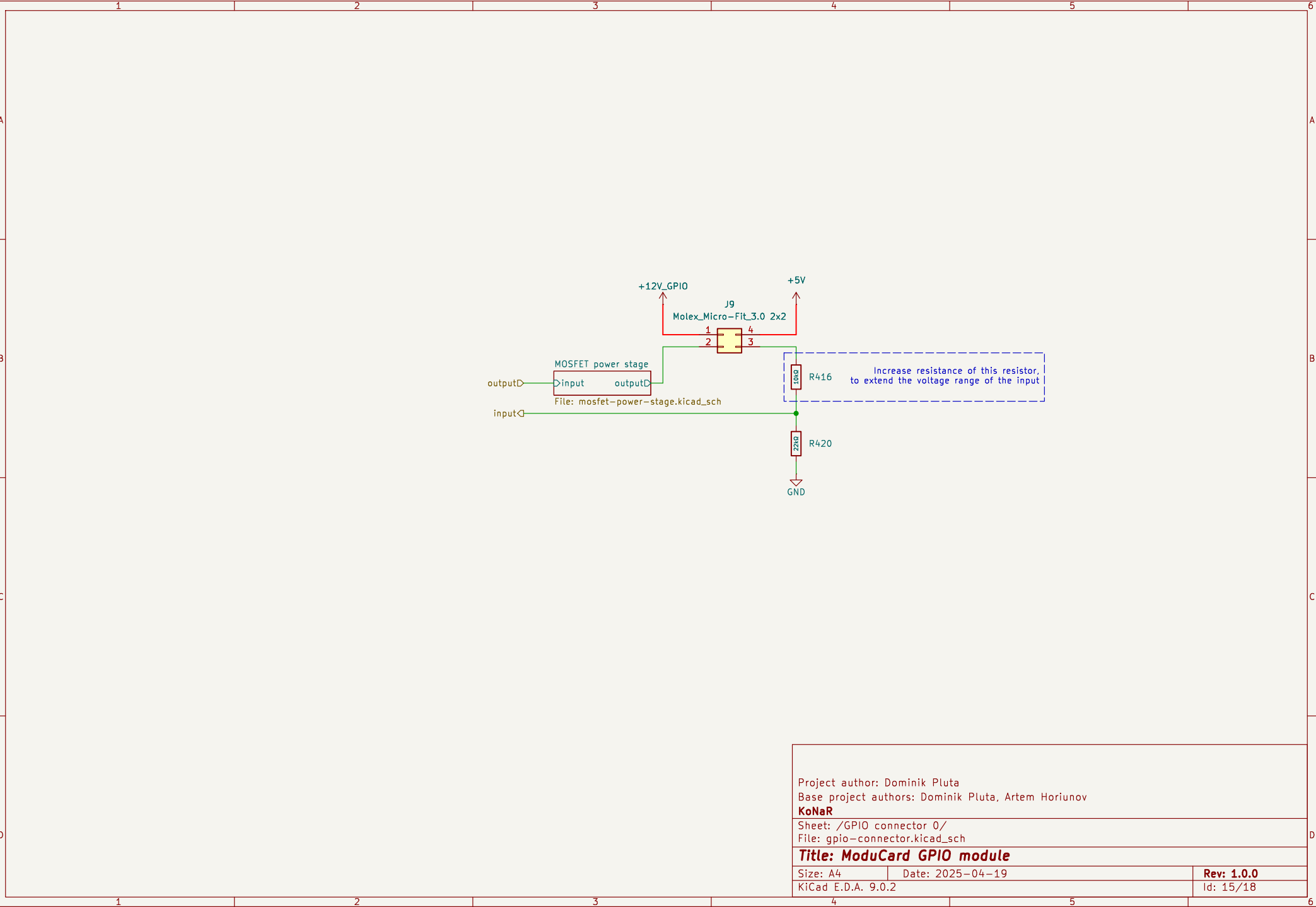


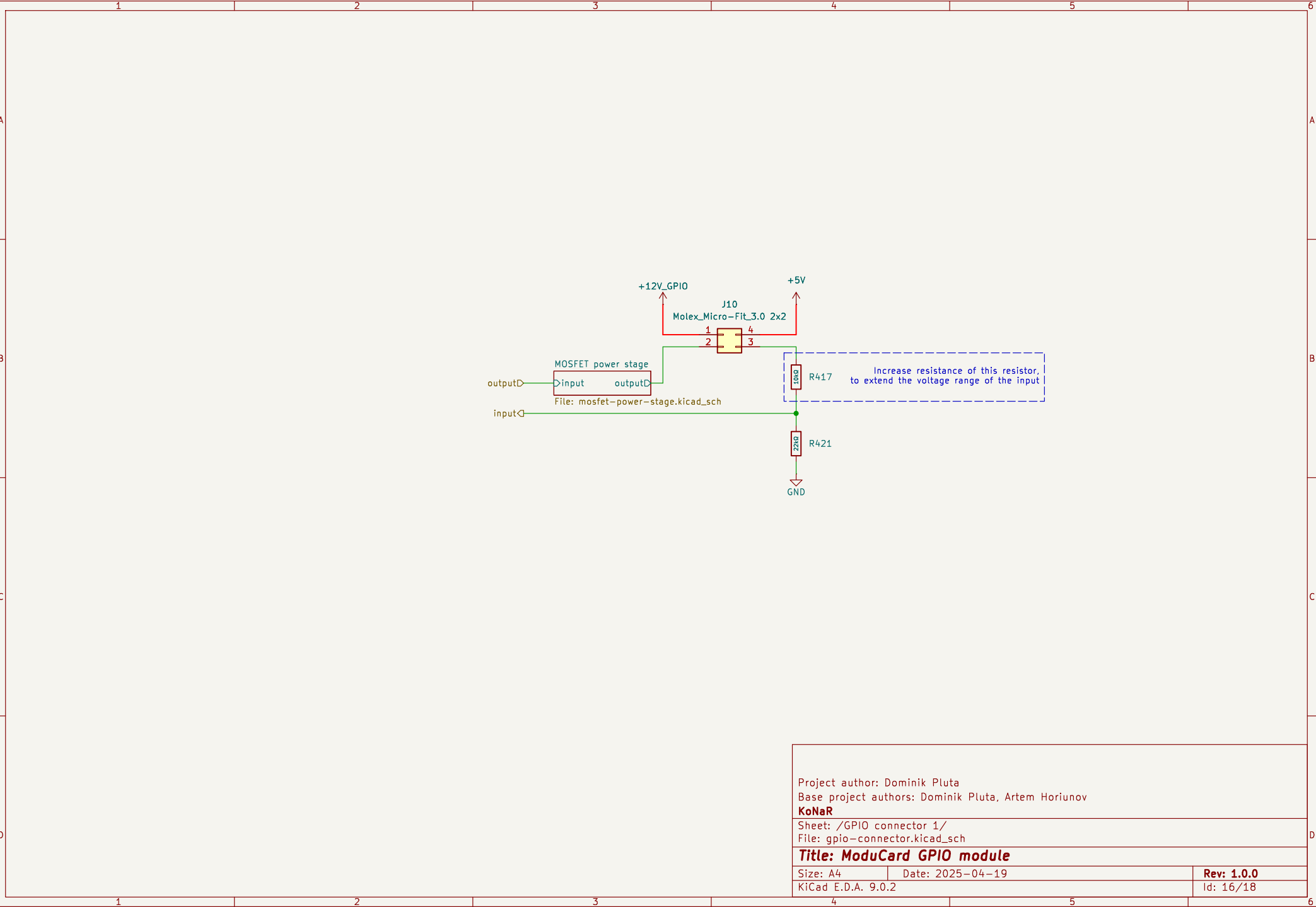
Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /QSPI FLASH/
File: QSPI FLASH.kicad_sch

Title: ModuCard GPIO module

Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 10/18



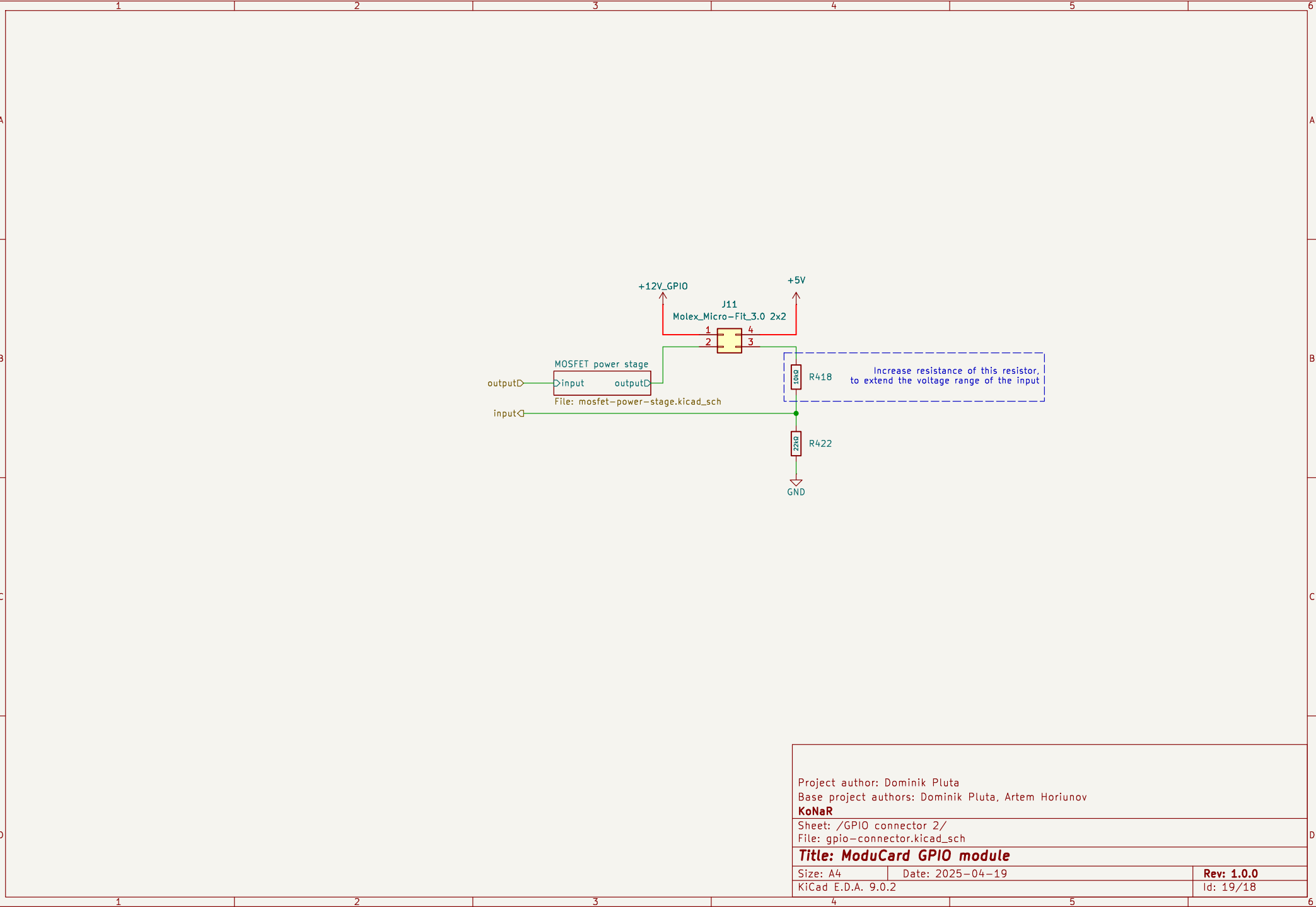


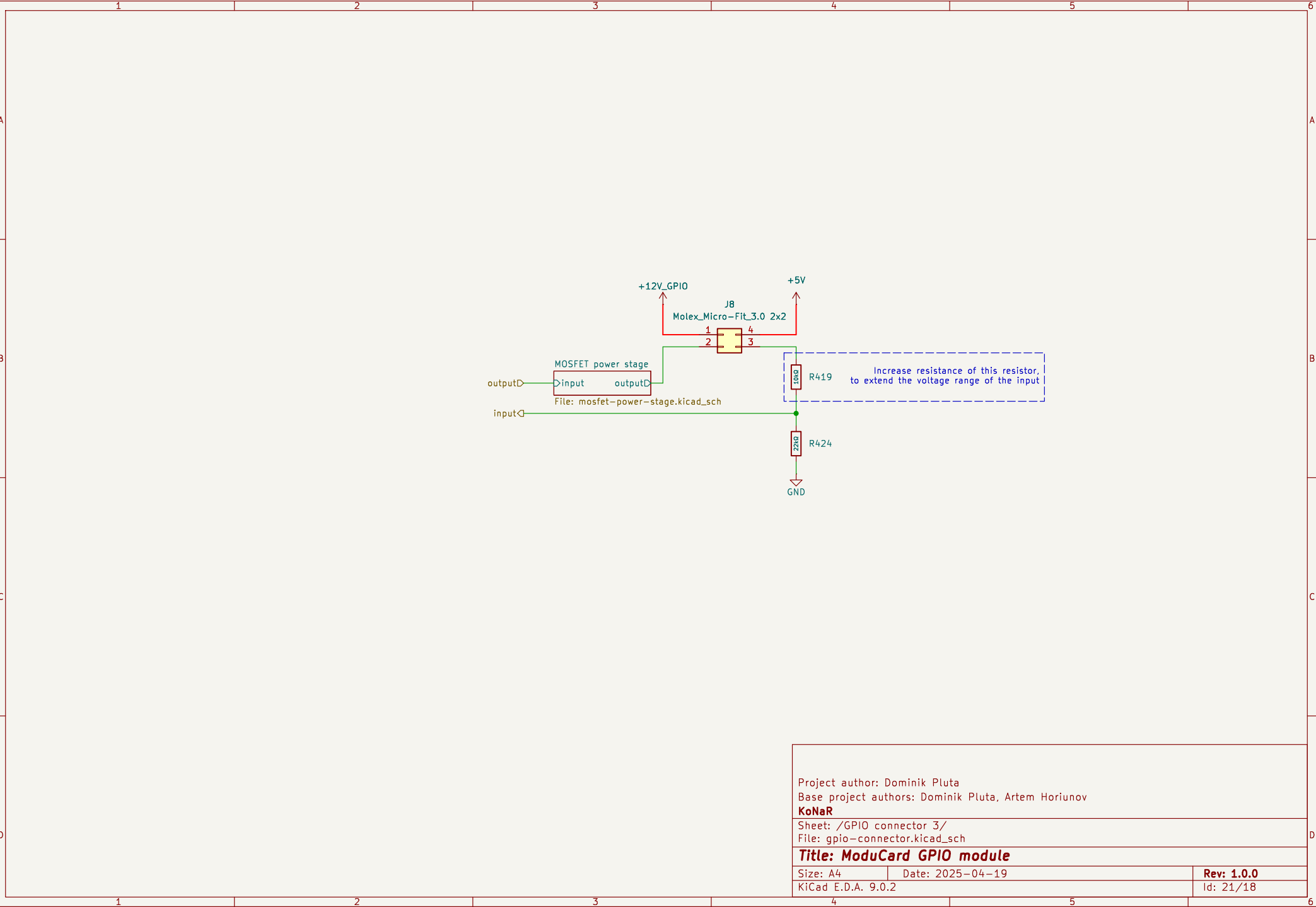
Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

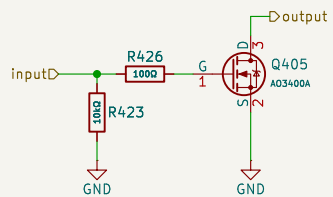
Sheet: /GPIO connector 1/
File: gpio-connector.kicad_sch

Title: ModuCard GPIO module

Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 16/18





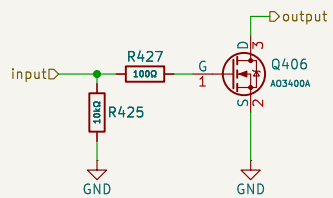


Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /GPIO connector 0/MOSFET power stage/
File: mosfet-power-stage.kicad_sch

Title: ModuCard GPIO module

Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 17/18

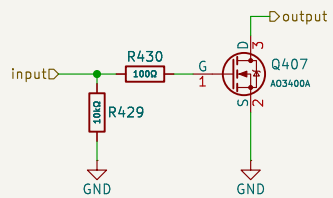


Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /GPIO connector 1/MOSFET power stage/
File: mosfet-power-stage.kicad_sch

Title: ModuCard GPIO module

Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 18/18

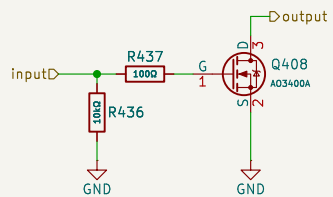


Project author: Dominik Pluta
Base project authors: Dominik Pluta, Artem Horiunov
KoNaR

Sheet: /GPIO connector 2/MOSFET power stage/
File: mosfet-power-stage.kicad_sch

Title: ModuCard GPIO module

Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 20/18



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

Sheet: /GPIO connector 3/MOSFET power stage/
File: mosfet-power-stage.kicad_sch

Title: ModuCard GPIO module

Size: A4	Date: 2025-04-19	Rev: 1.0.0
KiCad E.D.A. 9.0.2		Id: 22/18