

Notes:

Schottky diode on each usb VBUS in attempt to be able to use both USB connections simultaneously.
 TODO: Update this text when assembled with working status.

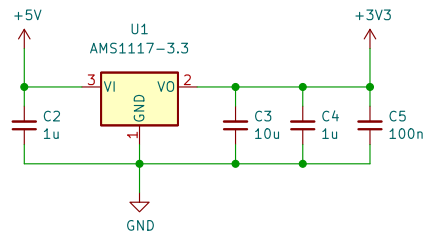
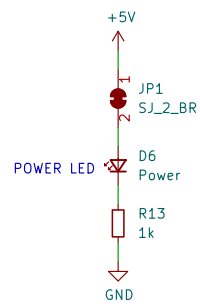
TODO: Fuses on inputs? 5v and 3v3 output to DB25 are fused

TODO: Consider filter on USB shield, potentially small cap large resistor, or even ferrite bead

Sheet: /USB Data/
 File: USB_C.kicad_sch

Title:

Size: A4	Date:	Rev:
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Notes:

Large'ish capacitance near USB connectors (10u), should cover any bulk input capacitance for 1117

Bridged by default jumper on power led allows disabling always on power led.

Sheet: /Power/
File: Power.kicad_sch

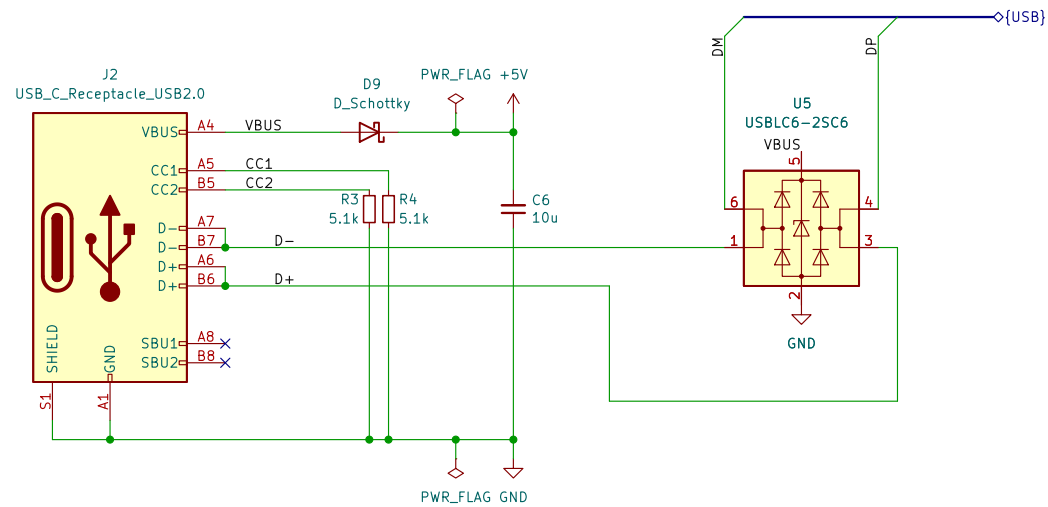
Title:

Size: A4
KiCad E.D.A. kicad (6.0.9)

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Rev:

Id: 3/9



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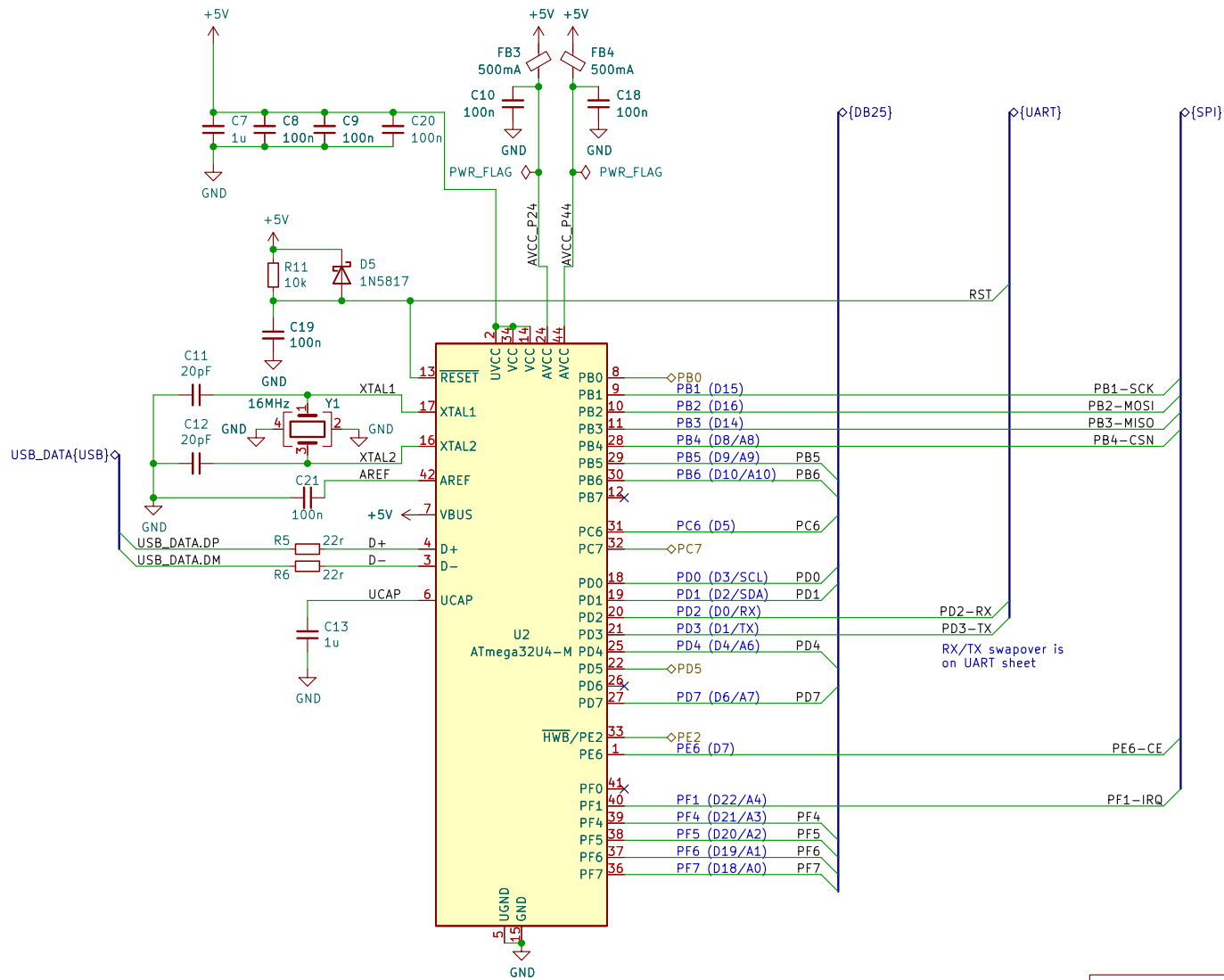
TODO: Fuses on inputs? 5v and 3v3 output to DB25 are fused

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Sheet: /USB Program/
 File: USBC.kicad_sch

Title:

Size: A4	Date:	Rev:
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Notes:

Initial design based on "AN2519 – AVR Microcontroller Hardware Design Considerations" DS00002519

Sheet: /Microcontroller/
File: ATmega32U4-M.kicad_sch

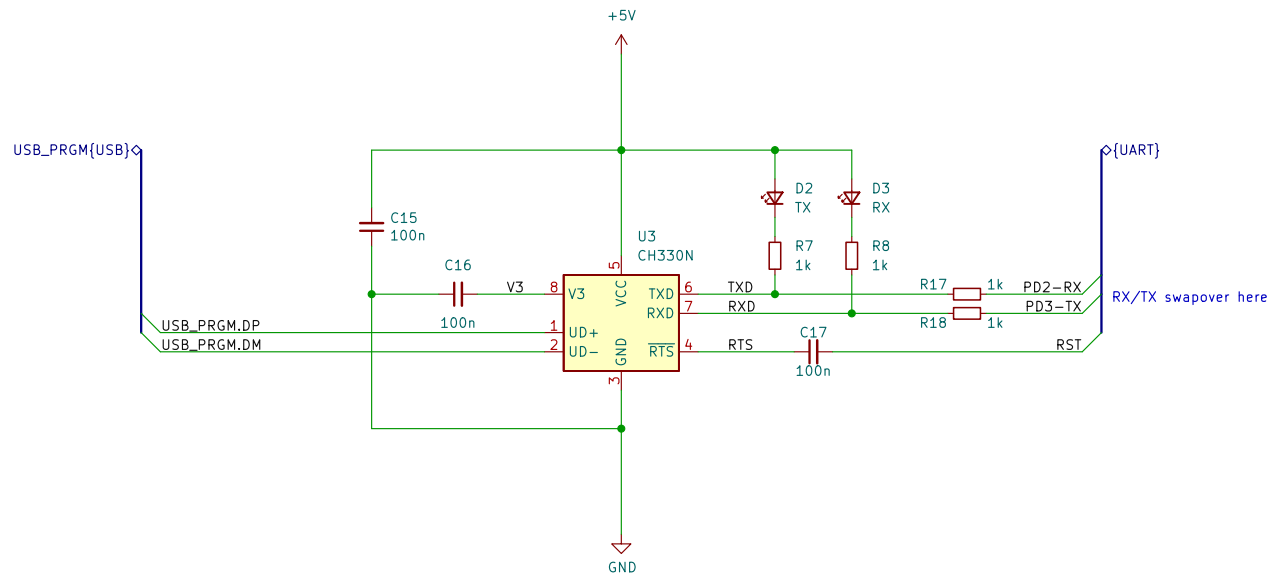
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Size: A4
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Date:

Rev:

Id: 5/9



Notes:

CH330N/CH340N interchangeable parts

Datasheet recommends not powering CH340 and MCU separately. Could cause issues when using TX/RX port for controllers.
 TODO: Investigate powering separately, adding diode instead of resistors to RXD/TXD

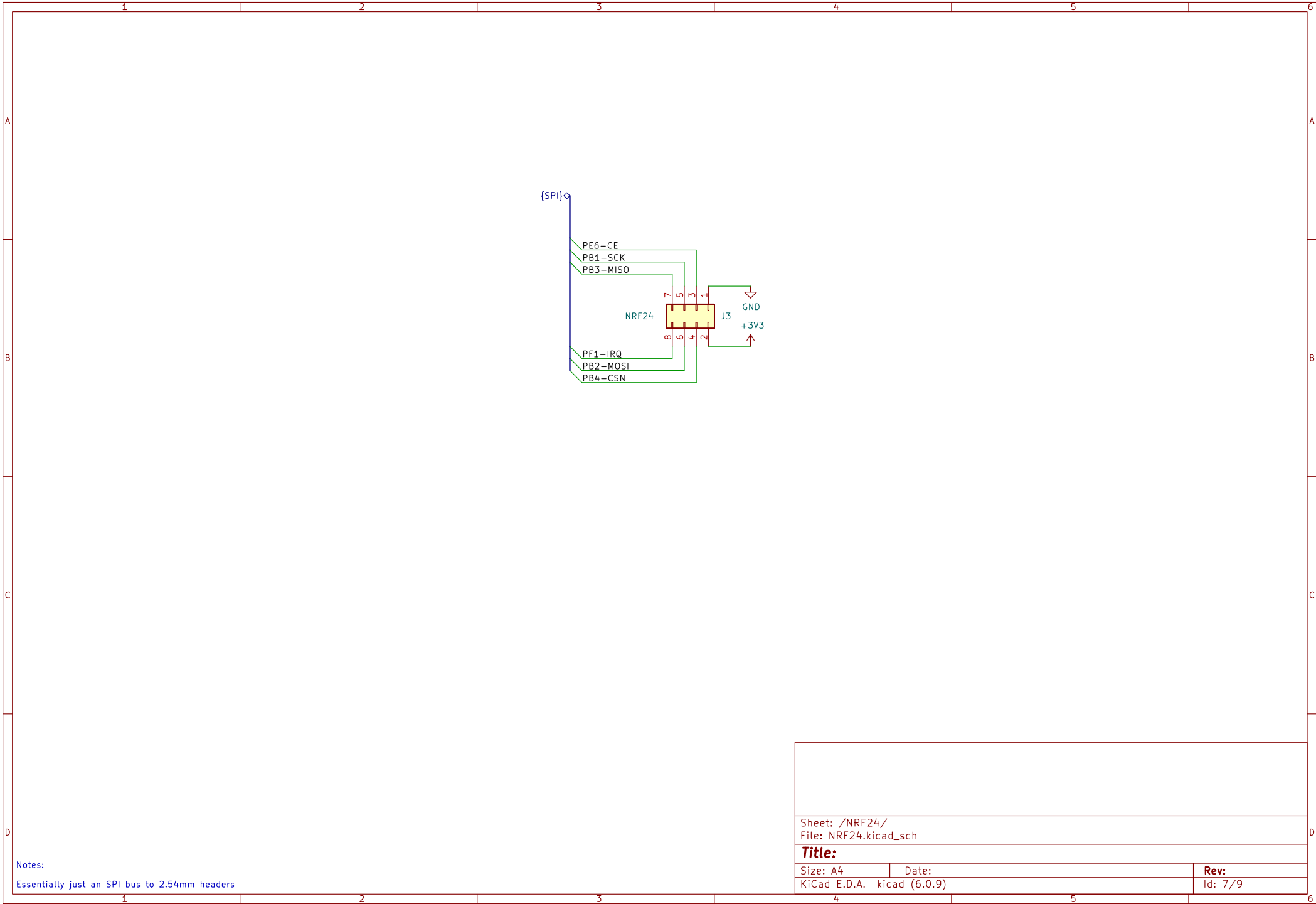
Sheet: /UART/
 File: UART.kicad_sch

Title:

Size: A4
 KiCad E.D.A. kicad (6.0.9)

Date:

Rev:
 Id: 6/9



Notes:
Essentially just an SPI bus to 2.54mm headers

Sheet: /NRF24/ File: NRF24.kicad_sch		
Title:		
Size: A4	Date:	Rev:
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