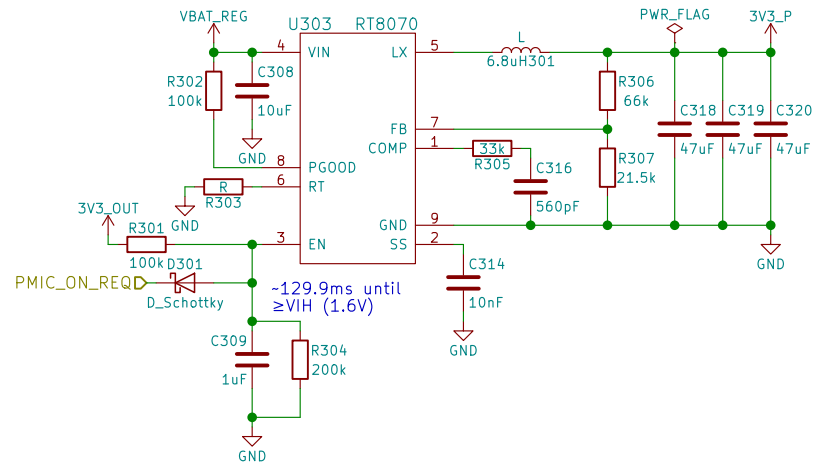
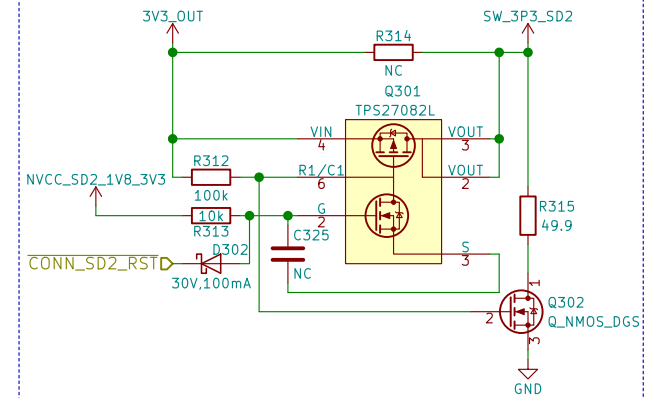


3.3V/3A

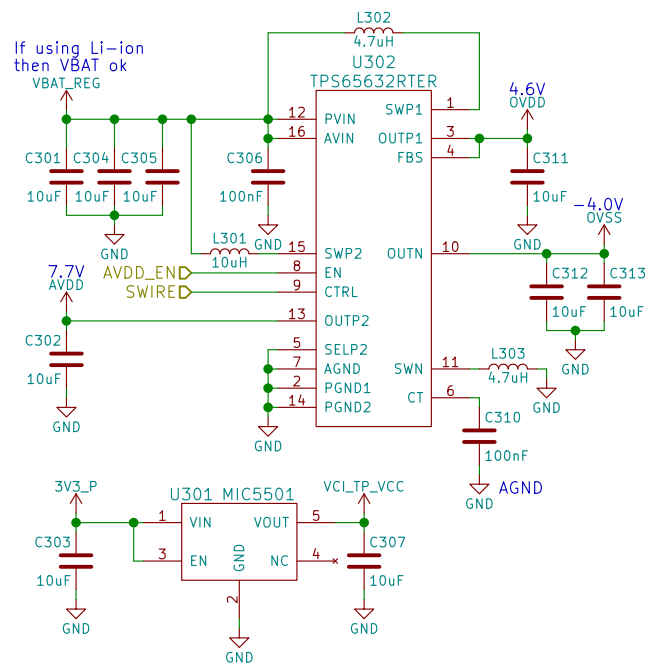
When VBAT can fall below 3.3V use TPS63020 instead!



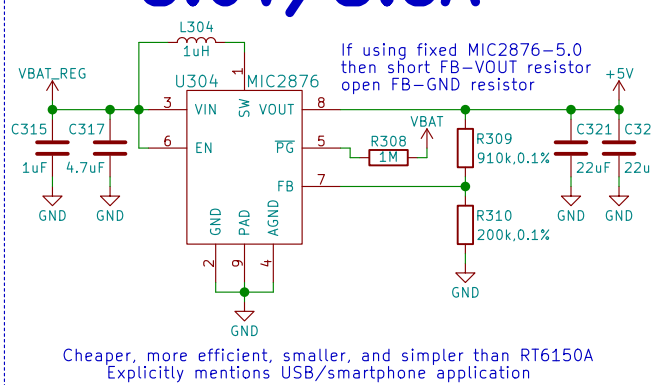
SD POWER



AMOLED POWER

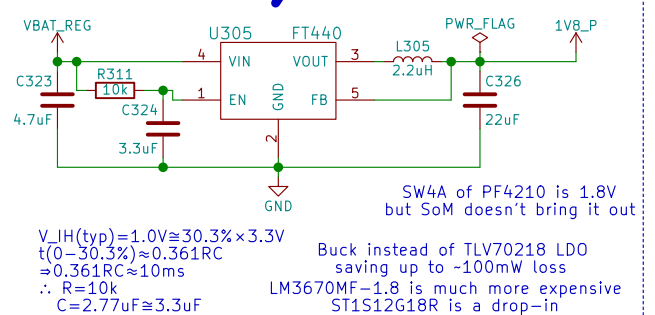


5.0V/3.8A



Cheaper, more efficient, smaller, and simpler than RT6150A
Explicitly mentions USB/smartphone application

1.8V/600mA



$V_{IH}(typ) = 1.0V \approx 30.3\% \times 3.3V$
 $t(0-30.3\%) \approx 0.361RC$
 $\approx 0.361RC \approx 10ms$
 $\therefore R = 10k$
 $C = 2.77uF \approx 3.3uF$

Buck instead of TLV70218 LDO
 saving up to ~100mW loss
 LM3670MF-1.8 is much more expensive
 ST1S12G18R is a drop-in

GNU GPLv3
 Copyright 2018
Purism SPC

Sheet: /Power/
 File: power.sch

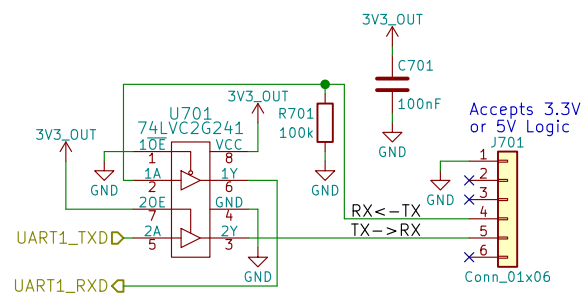
Title: Power

Size: A4
 Date: 2018-04-19
 KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0
 Id: 3/15

Id: 5/15

Id: 6/15



GNU GPLv3
Copyright 2018

Purism SPC

Sheet: /UART Debug/
File: uart.sch

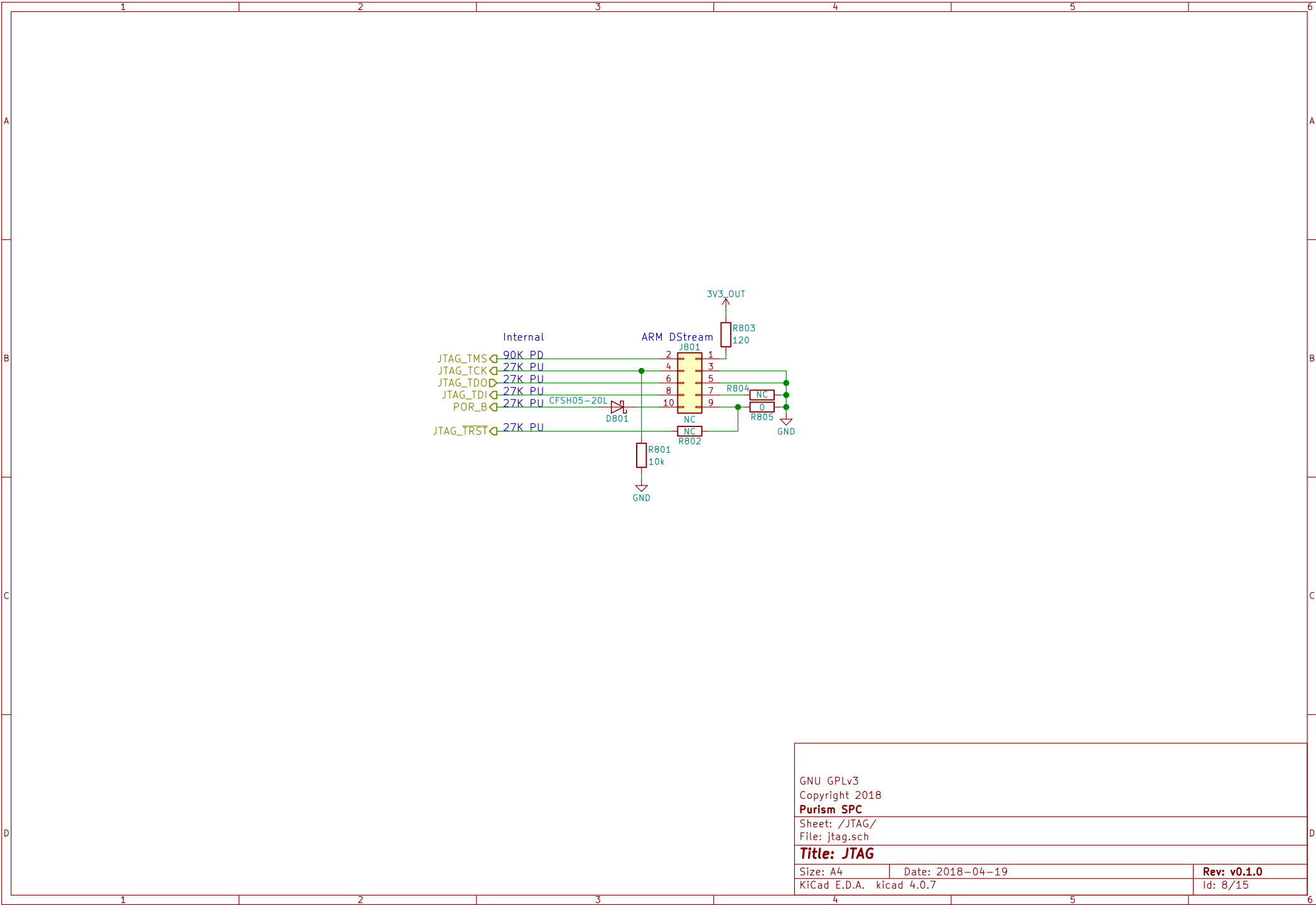
Title: UART Debug

Size: A4 Date: 2018-04-19

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 7/15



GNU GPLv3
Copyright 2018

Purism SPC

Sheet: /JTAG/
File: jtag.sch

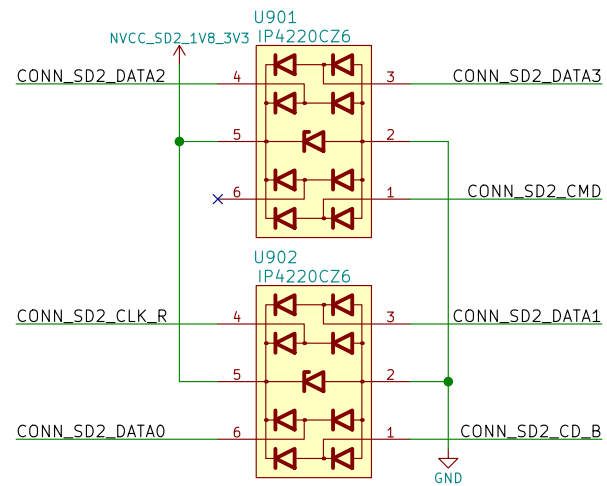
Title: JTAG

Size: A4
KiCad E.D.A. kicad 4.0.7

Date: 2018-04-19

Rev: v0.1.0

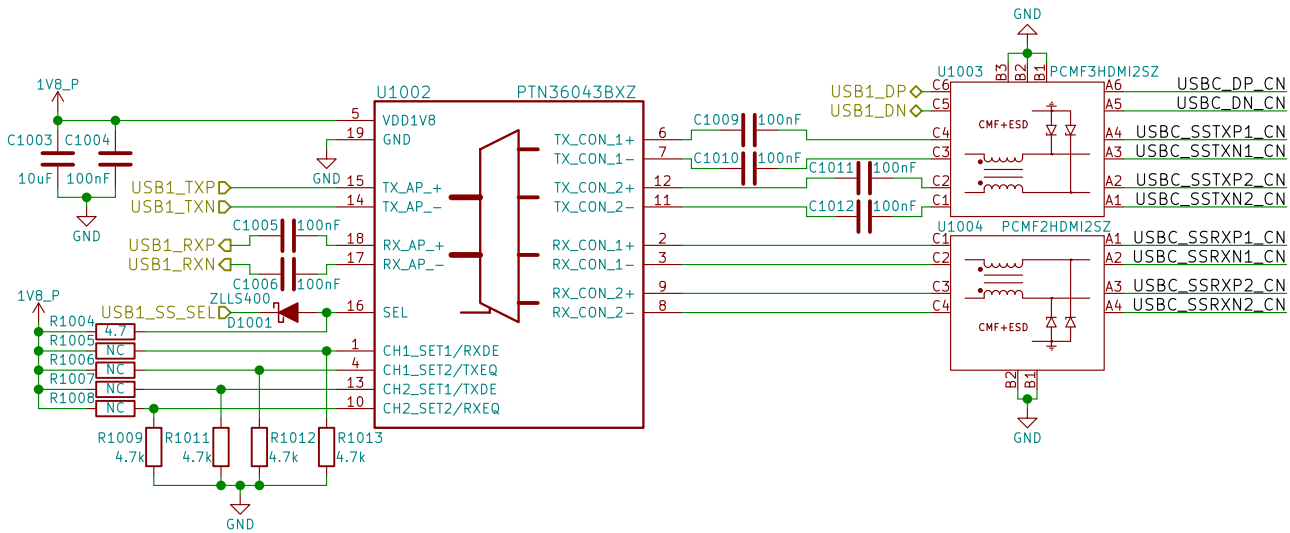
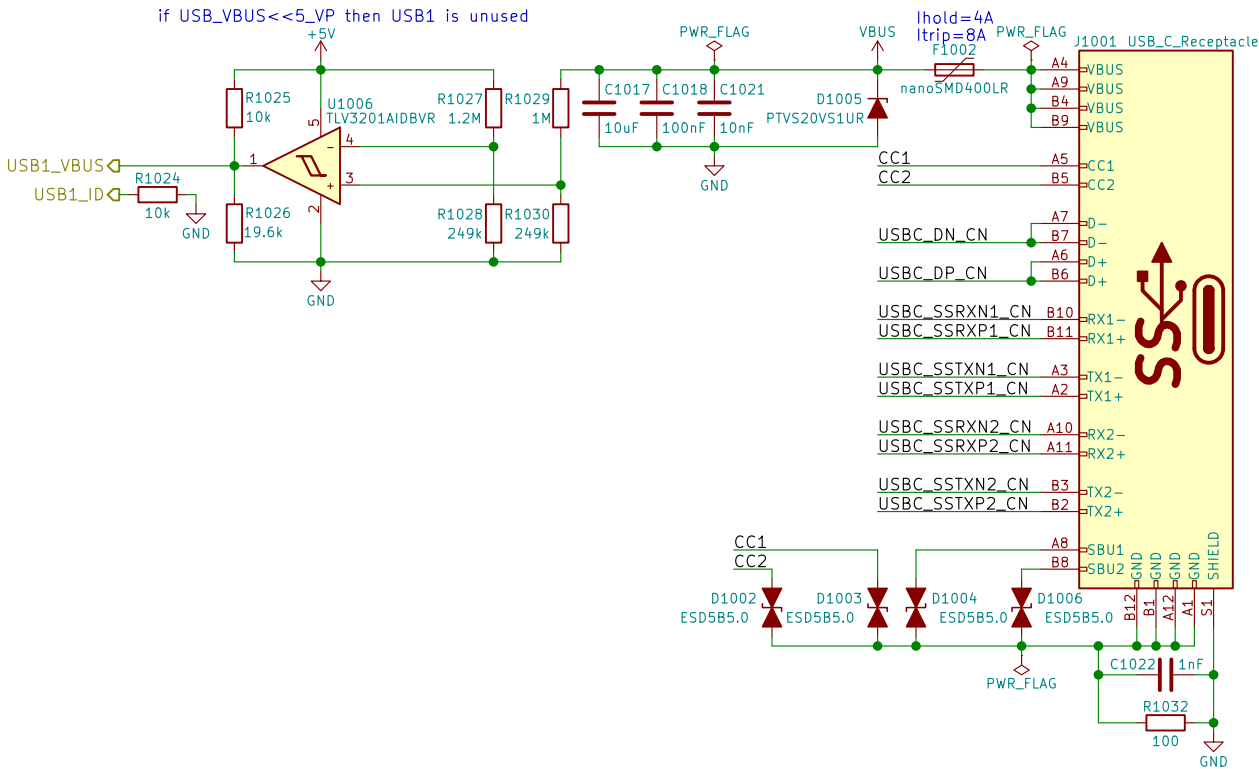
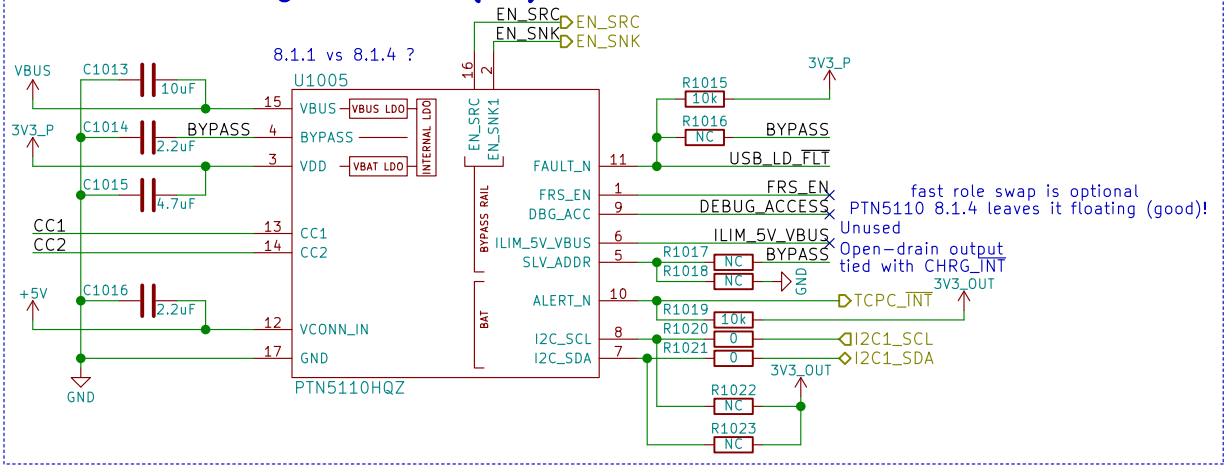
Id: 8/15



Id: 9/15

May have BQ25896 handle switching!!!

USB-C Config Channel (CC) and PD Role Controller



GNU GPLv3
Copyright 2018
Purism SPC
Sheet: /USB-C/
File: usb-c.sch

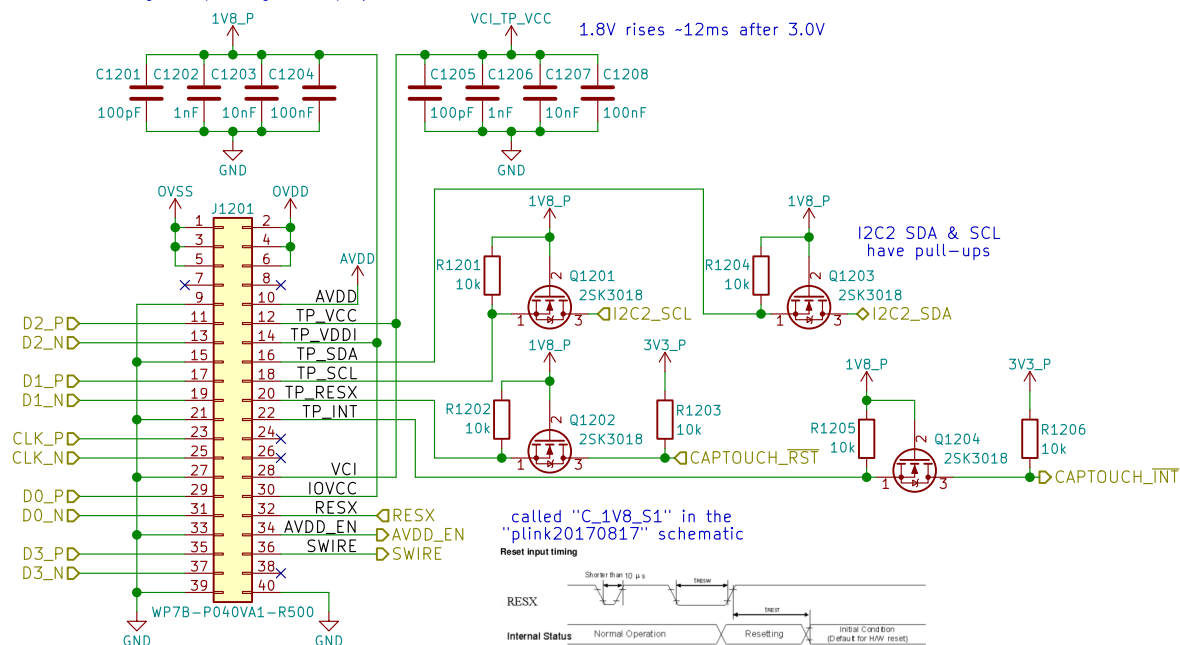
Title: USB Type C

Size: A3 Date: 2018-04-19
KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0
Id: 10/15

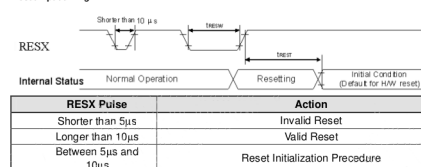
Rev: v0.1.0
Id: 11/15

Using H546DLB01.1 pin assignment may need to be changed depending on display used



called "C_1V8_S1" in the "plink20170817" schematic

Reset input timing



GNU GPLv3
Copyright 2018

Purism SPC

Sheet: /MIPI DSI/
File: mipi_dsi.sch

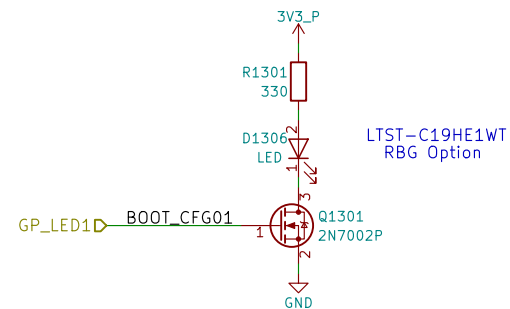
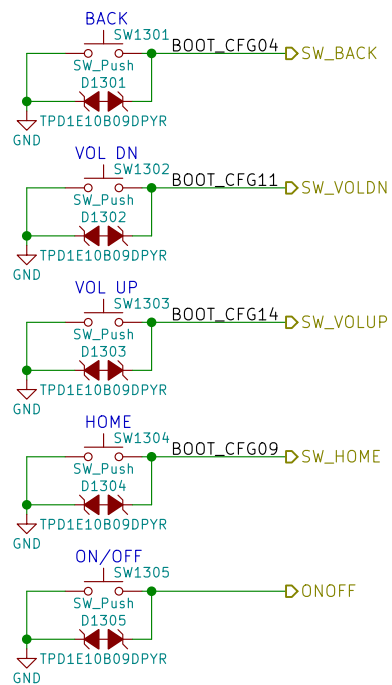
Title: MIPI DSI

Size: A4 Date: 2018-04-19

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 12/15



GNU GPLv3
Copyright 2018

Purism SPC

Sheet: /Buttons & LED/
File: buttons_led.sch

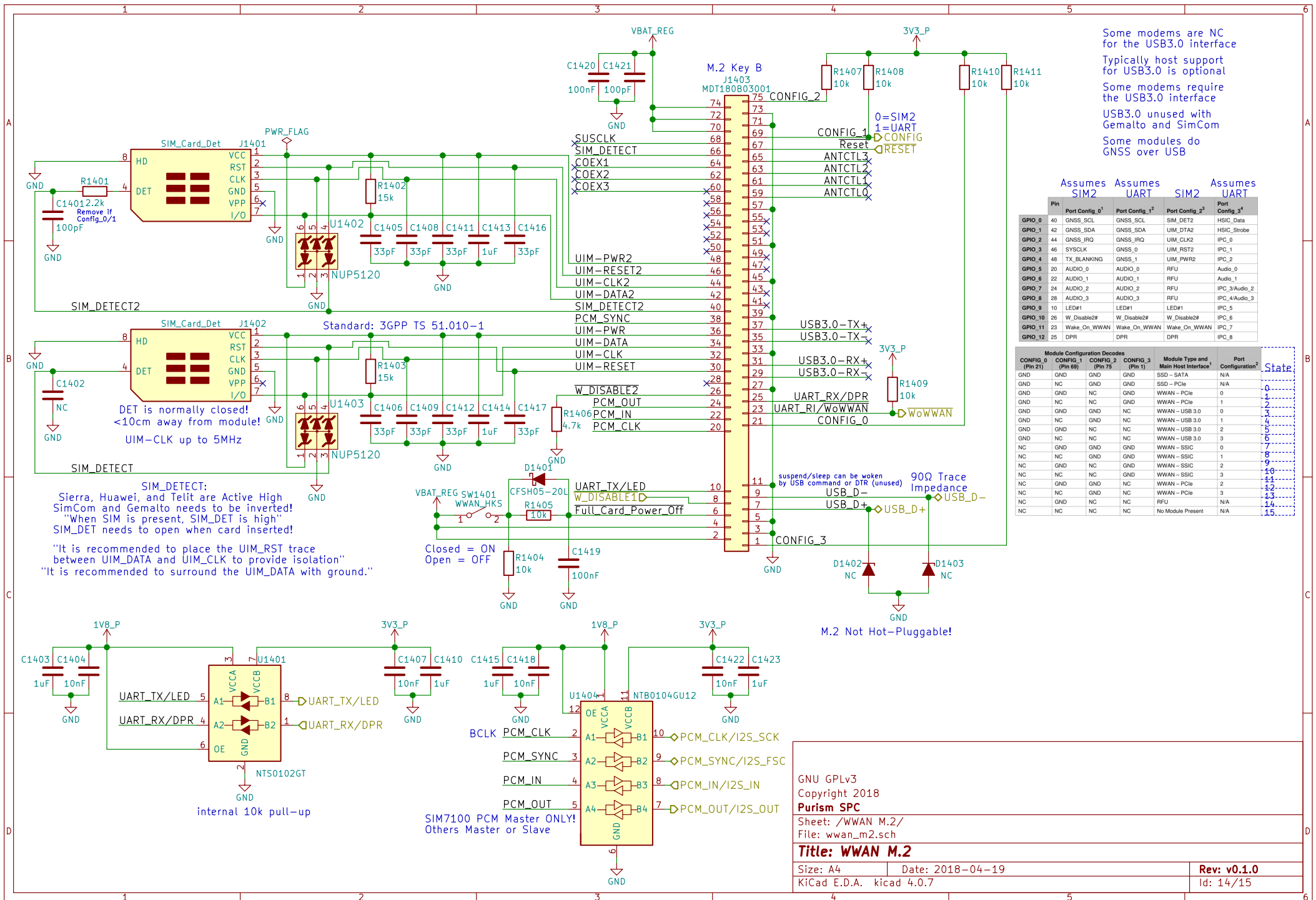
Title: Buttons & LED

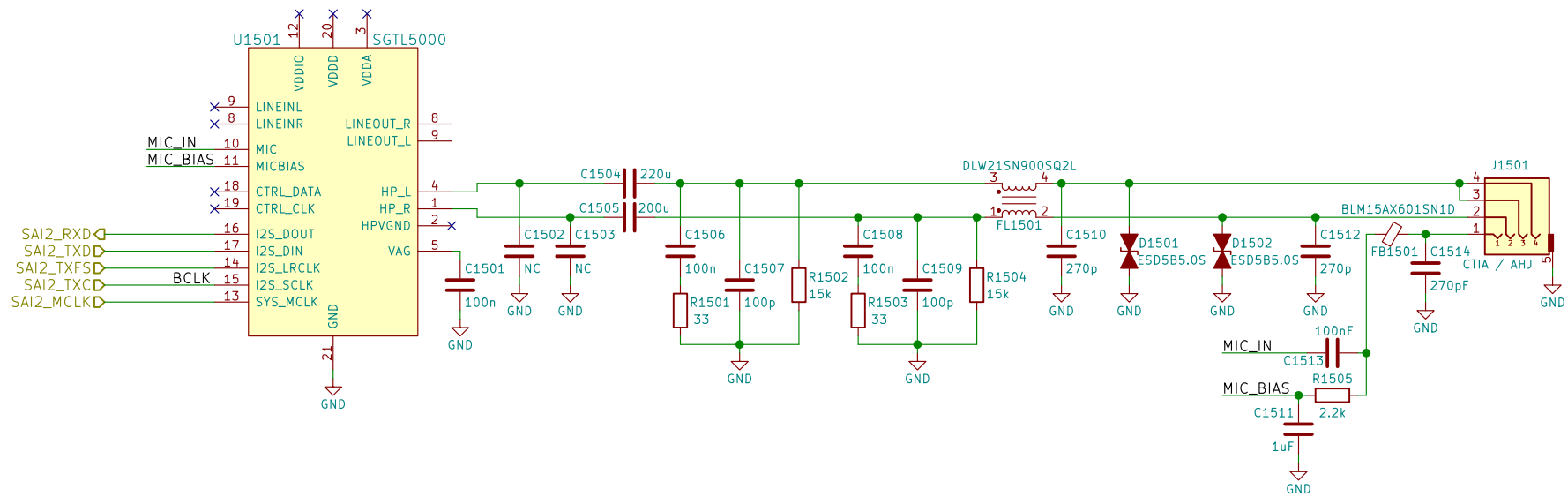
Size: A4 Date: 2018-04-19

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 13/15





GNU GPLv3
Copyright 2018

Purism SPC

Sheet: /Audio/
File: audio.sch

Title: Audio

Size: A4 Date: 2018-04-19
KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0
Id: 15/15