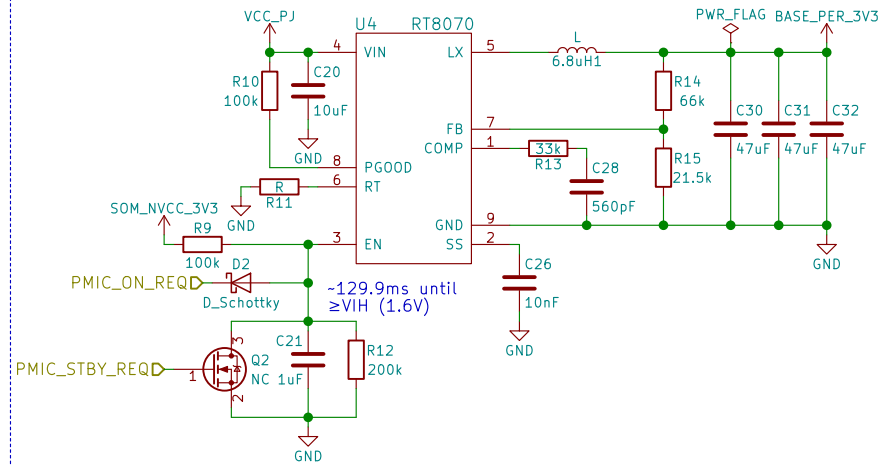
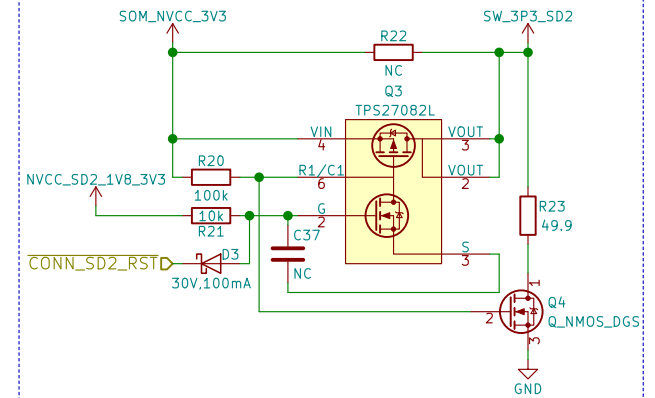


3.3V/3A

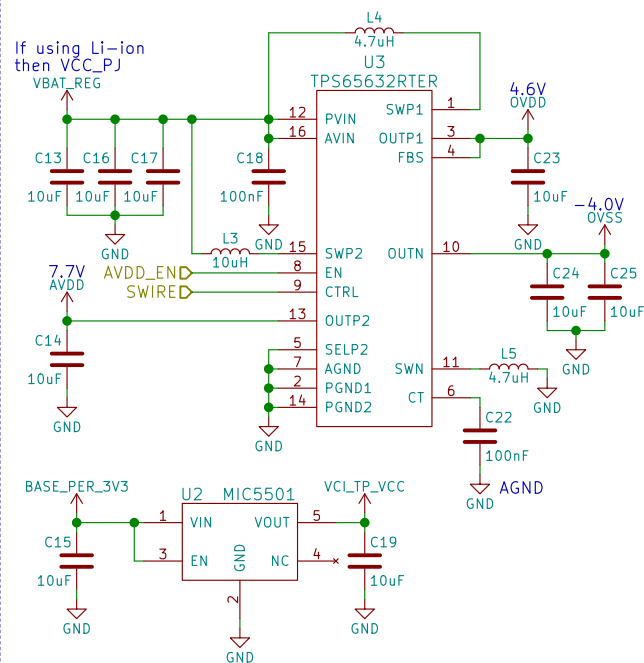
When VBAT can fall below 3.3V use TPS63020 instead!



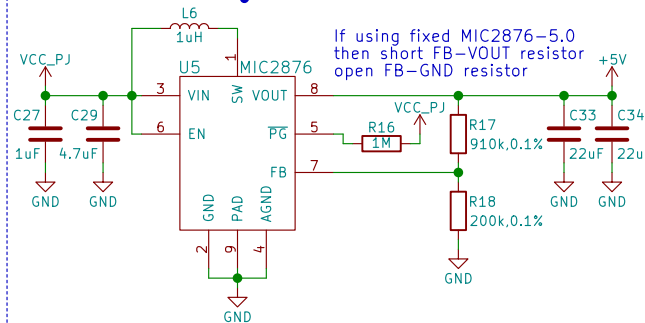
SD POWER



AMOLED POWER

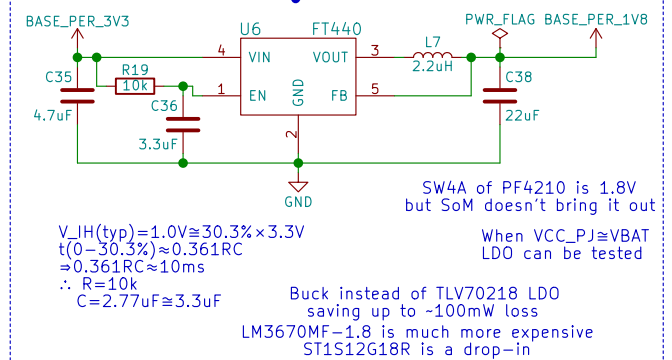


5.0V/800mA



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

1.8V/600mA



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

SW4A of PF4210 is 1.8V
but SoM doesn't bring it out
When VCC_PJ \approx VBAT
LDO can be tested

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

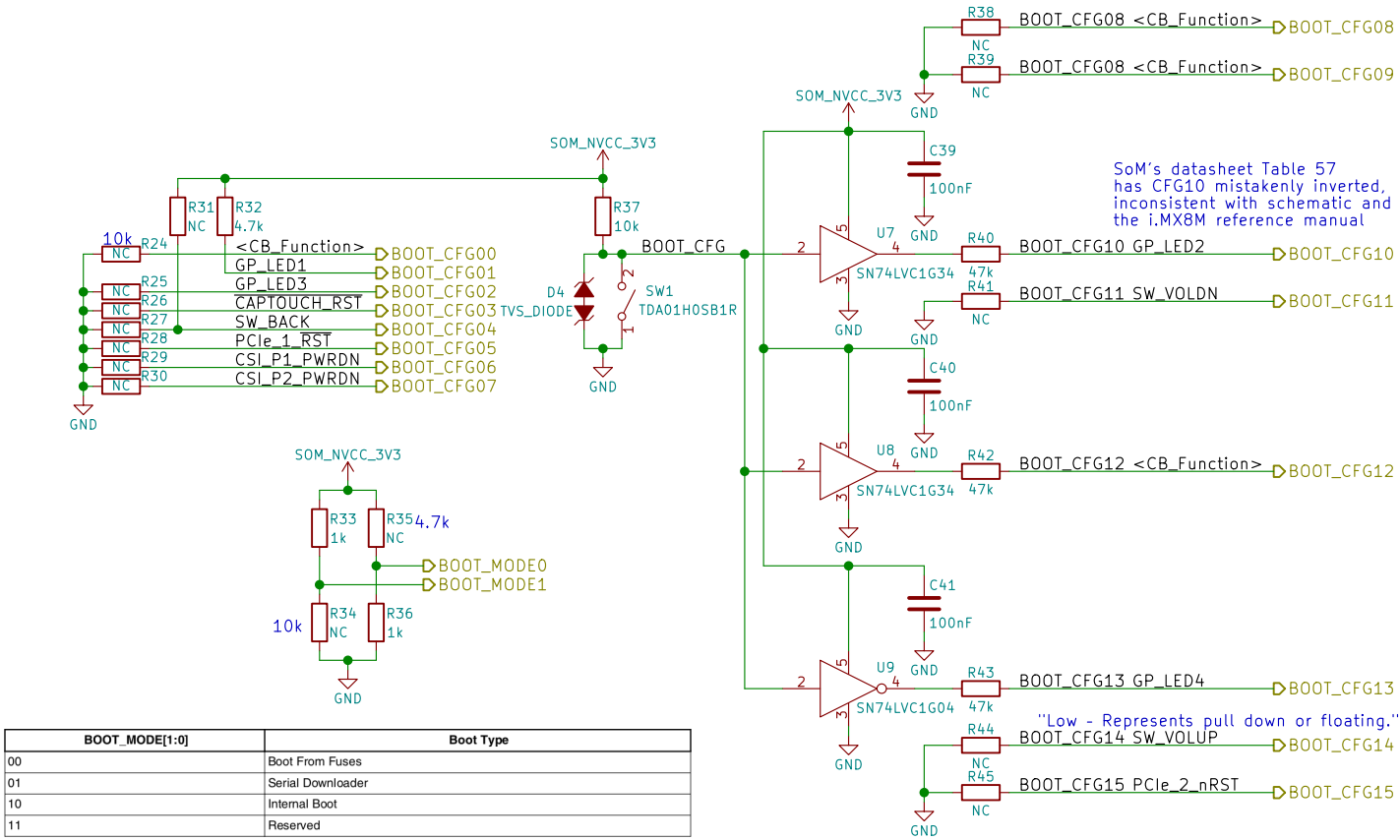
Title: Power

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

Date: 2018-04-16

Rev: v0.1.0
Id: 3/14

BOOT_CFG[14:12]			Boot device		
001			SD/eSD		
010			MMC/eMMC		
011			NAND		
Fuse	Config	Definition	GPIO ¹	Shipped value	Settings
BOOT_CFG[11:10]	OEM	USDHC port selection	Yes	00	00 - USDHC-1 01 - USDHC-2 10 - USDHC-3 else - reserved



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Purism SPC

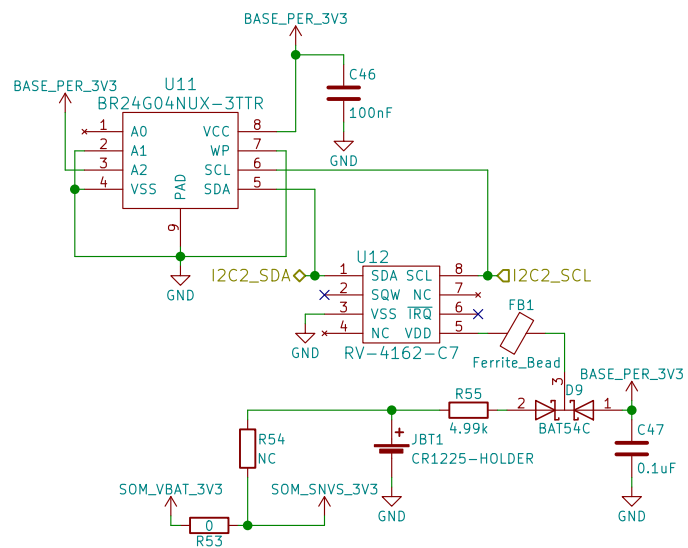
Sheet: /Boot Config/
File: boot.sch

Title: Boot Configuration

Size: A4 Date: 2018-04-16
KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0
Id: 4/14

Id: 5/14



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Purism SPC

Sheet: /RTC Battery/
File: rtc.sch

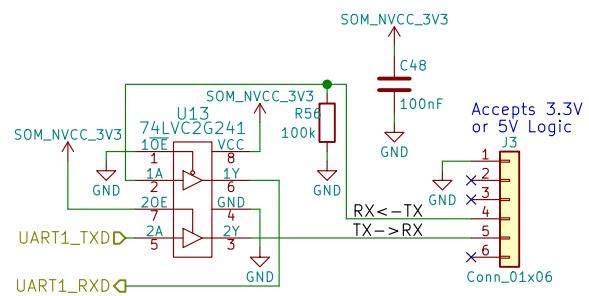
Title: RTC Battery

Size: A4 Date: 2018-04-16

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 6/14



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Purism SPC

Sheet: /UART Debug/
File: uart.sch

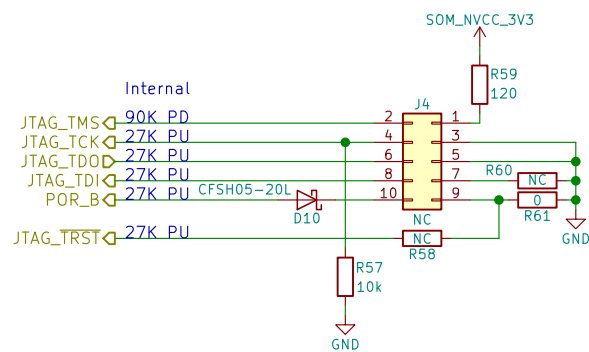
Title: UART Debug

Size: A4 Date: 2018-04-16

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 7/14



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Sheet: /JTAG/
File: jtag.sch

Title: JTAG

Size: A4 Date: 2018-04-16

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 8/14

123456

A

A

B

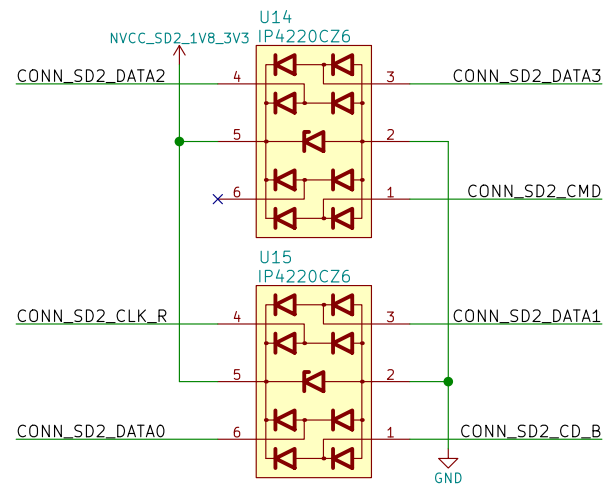
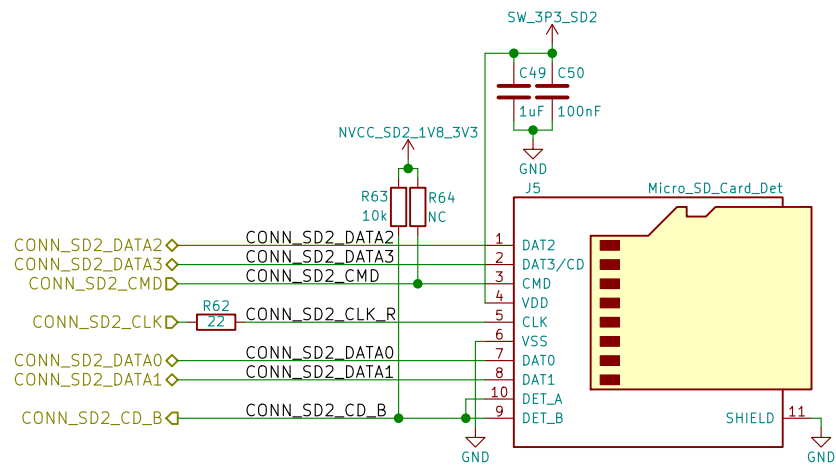
B

C

C

D

D



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Purism SPC

Sheet: /uSD Card/
File: sd.sch

Title: uSD Card

Size: A4 Date: 2018-04-16

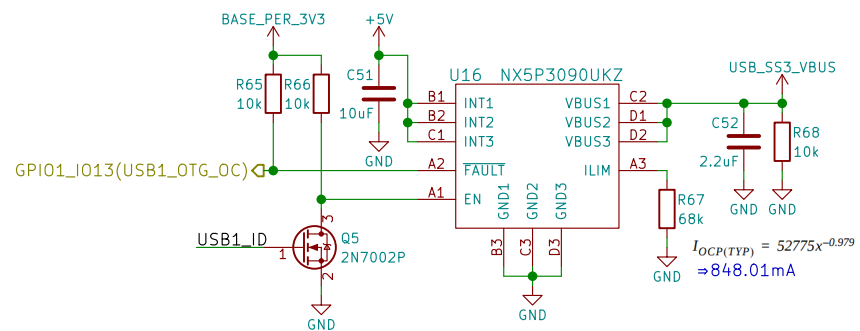
KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 9/14

123456

USB1_ID



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Purism SPC

Sheet: /USB/
File: usb.sch

Title: USB

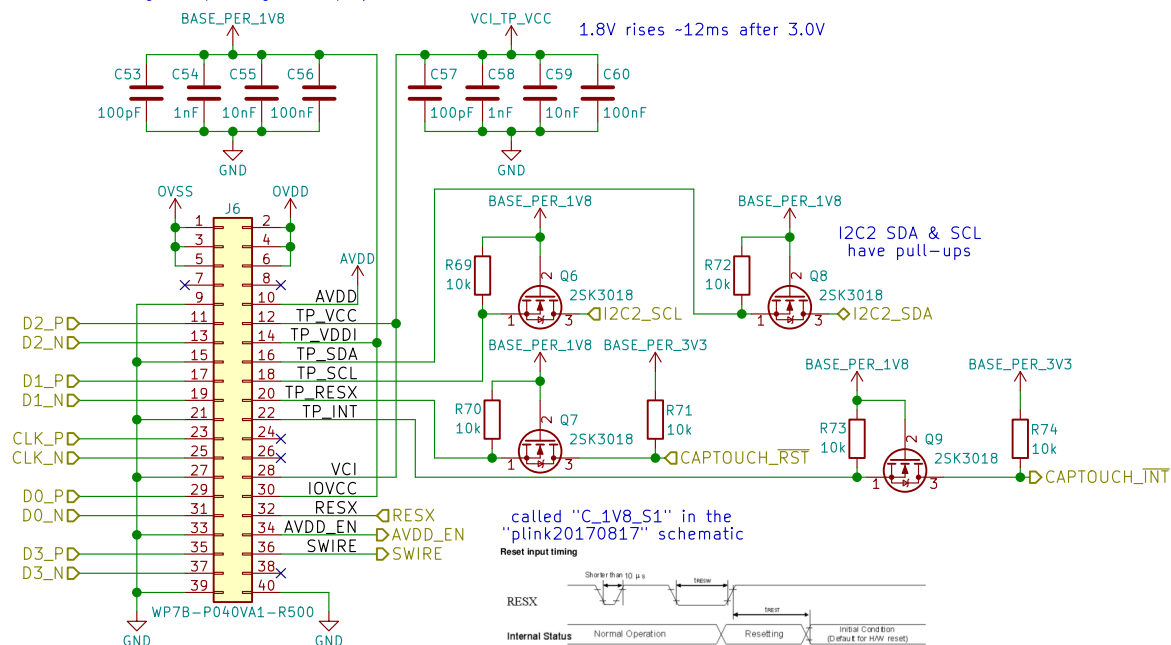
Size: A4 Date: 2018-04-16

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 10/14

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



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Purism SPC

Sheet: /MIPI DSI/
File: mipi_dsi.sch

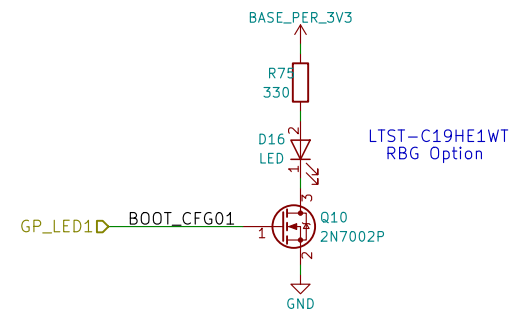
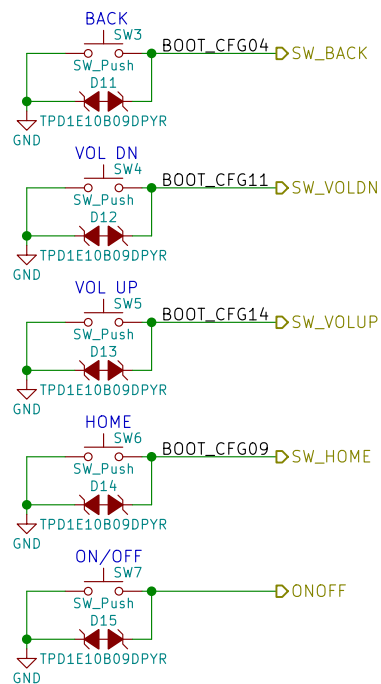
Title: MIPI DSI

Size: A4 Date: 2018-04-16

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 11/14



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Purism SPC

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

Title: Buttons & LED

Size: A4 Date: 2018-04-16

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 12/14

Rev: v0.1.0
Id: 13/14

