

[illegible]

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Purism SPC

Sheet: /USB-C/

File: usb-c.sch

Title: USB Type C

Size: A3

KiCad E.D.A. kicad 4.0.7

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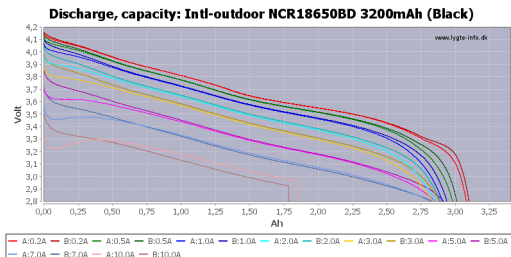
Date: 2018-05-02

4.0.7

7

Rev: v0.1.0

d: 2/17

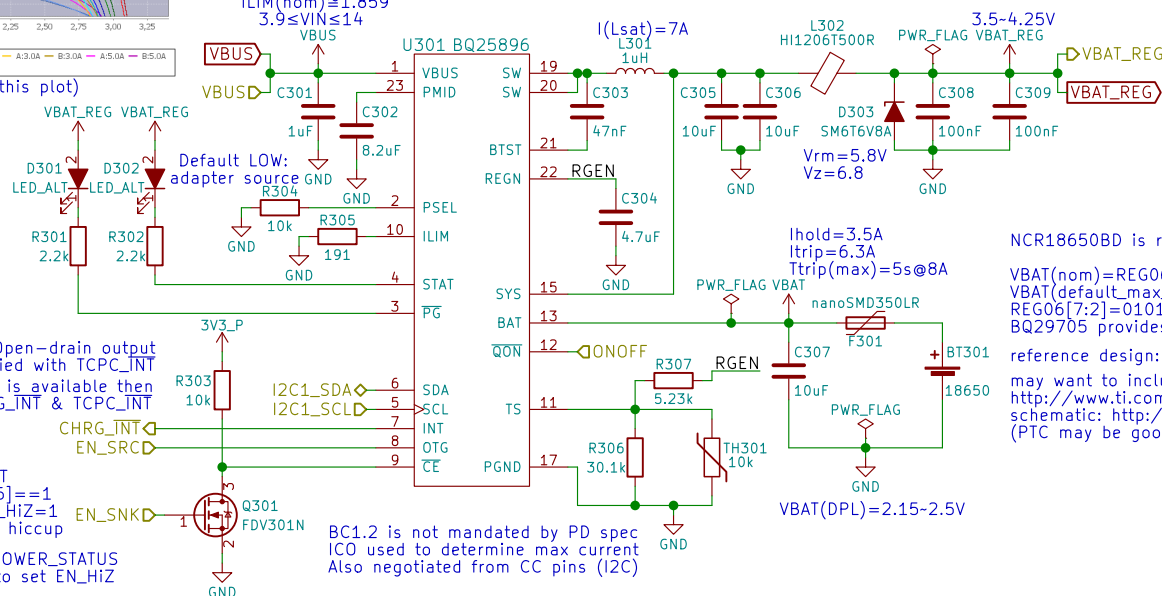


(interpret RSOC% based on this plot)

use AUTO_DPDM_EN
to auto-detect IINLIM

$1.658 \leq I_{LIM} \leq 2.063$
 $I_{LIM}(nom) \approx 1.859$
 $3.9 \leq V_{IN} \leq 14$

Battery Charge Controller



NCR18650BD is recommended

reference design: <http://www.ti.com/lit/ug/sluuba2b/sluuba2b.pdf>
 may want to include BQ29705 protection as in:
<http://www.ti.com/lit/ug/tiduc1/tiduc1.pdf>
 schematic: <http://www.ti.com/lit/df/tidrp70/tidrp70.pdf>
 (PTC may be good enough)

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Sheet: /Battery/

File: battery.sch

Title: Battery

Size: A4 Date: 2018-05-02

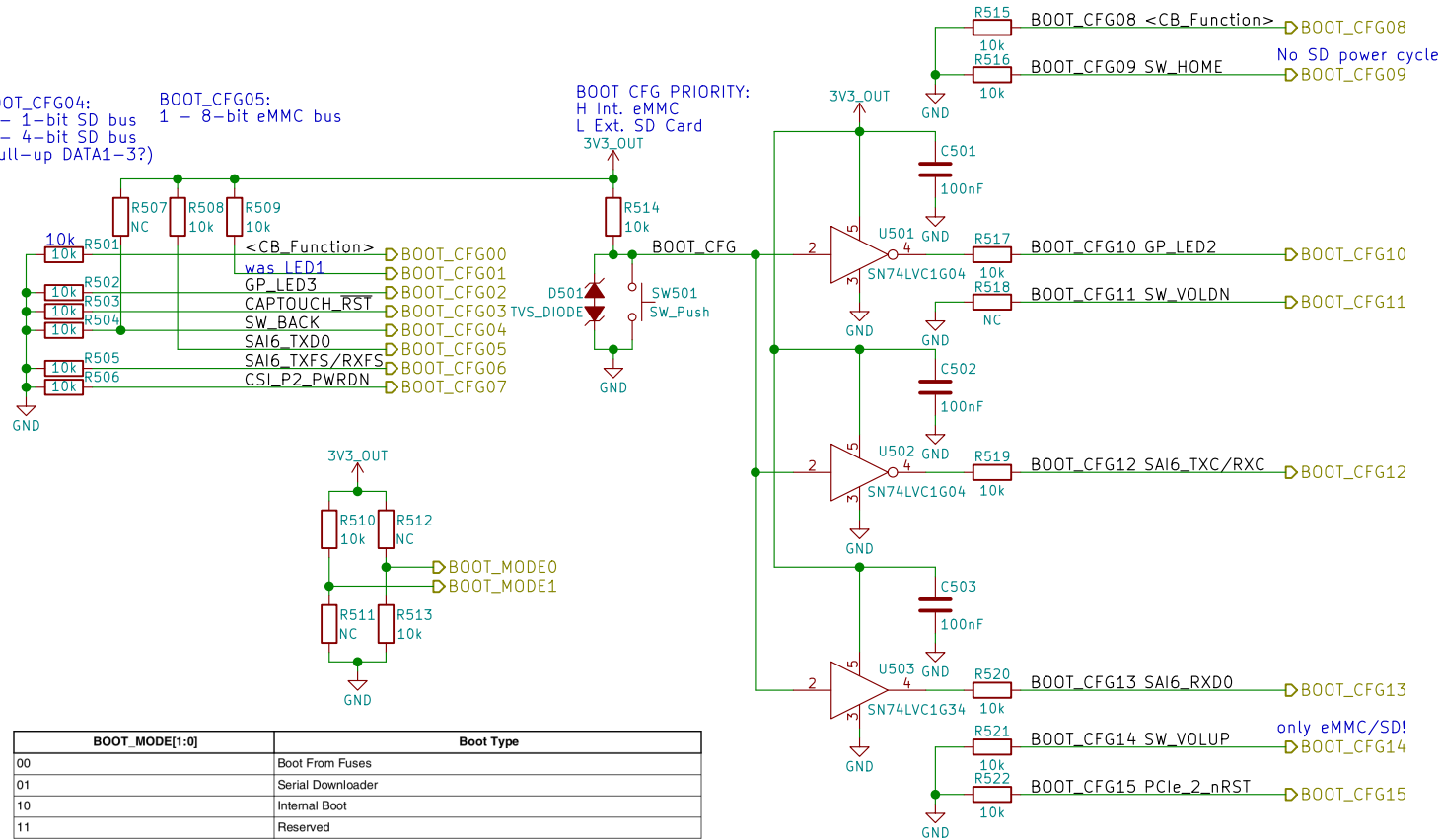
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Id: 3/17

BOOT_CFG04:
0 - 1-bit SD bus
0 - 4-bit SD bus
(pull-up DATA1-3?)

BOOT_CFG05:
1 - 8-bit eMMC bus



BOOT_MODE[1:0]	Boot Type
00	Boot From Fuses
01	Serial Downloader
10	Internal Boot
11	Reserved

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

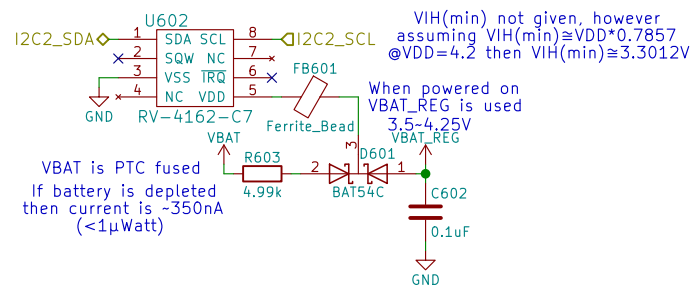
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Sheet: /Boot Config/
File: boot.sch

Title: Boot Configuration

Size: A4 Date: 2018-05-02
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Rev: v0.1.0
Id: 5/17



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Sheet: /RTC/
File: rtc.sch

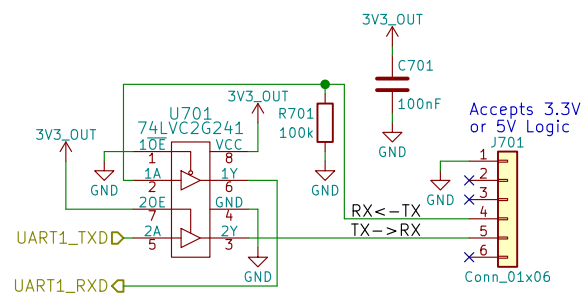
Title: RTC

Size: A4 Date: 2018-05-02

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 6/17



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Sheet: /UART Debug/
File: uart.sch

Title: UART Debug

Size: A4 Date: 2018-05-02

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Rev: v0.1.0

Id: 7/17



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Sheet: /JTAG/

File: jtag.sch

Title: JTAG

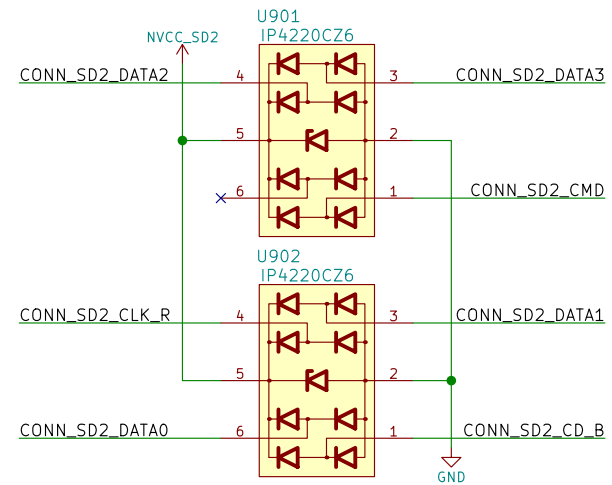
Size: A4

KiCad E.D.A. kicad 4.0.7

Date: 2018-05-02

Rev: v0.1.0

Id: 8/17



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Sheet: /uSD Card/

File: sd.sch

Title: uSD Card

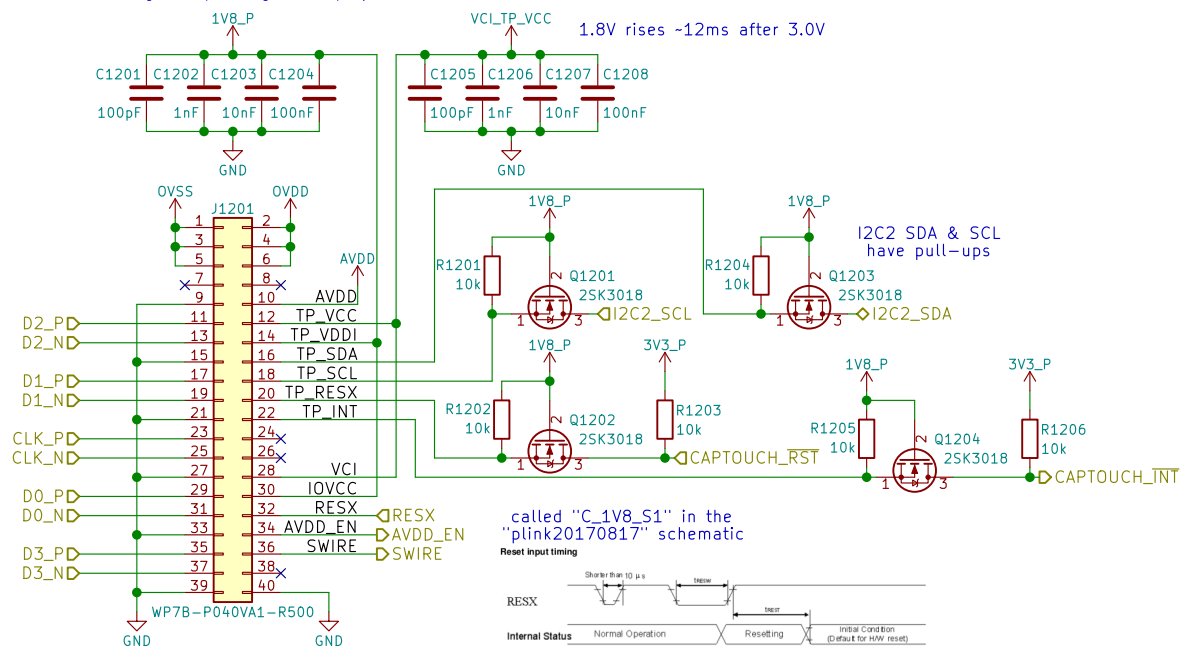
Size: A4 Date: 2018-05-02

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

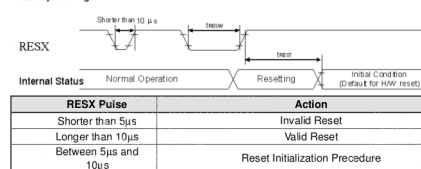
Id: 9/17

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



called "C_1V8_S1" in the "mlink20170817" schematic

Reset input timing



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Sheet: /MIPI DSI/
File: mipi_dsi.sch

Title: MIPI DSI

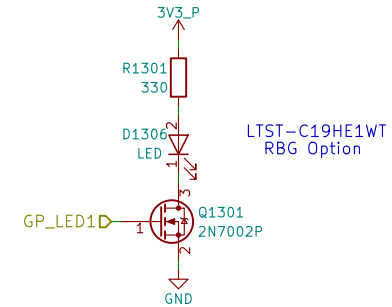
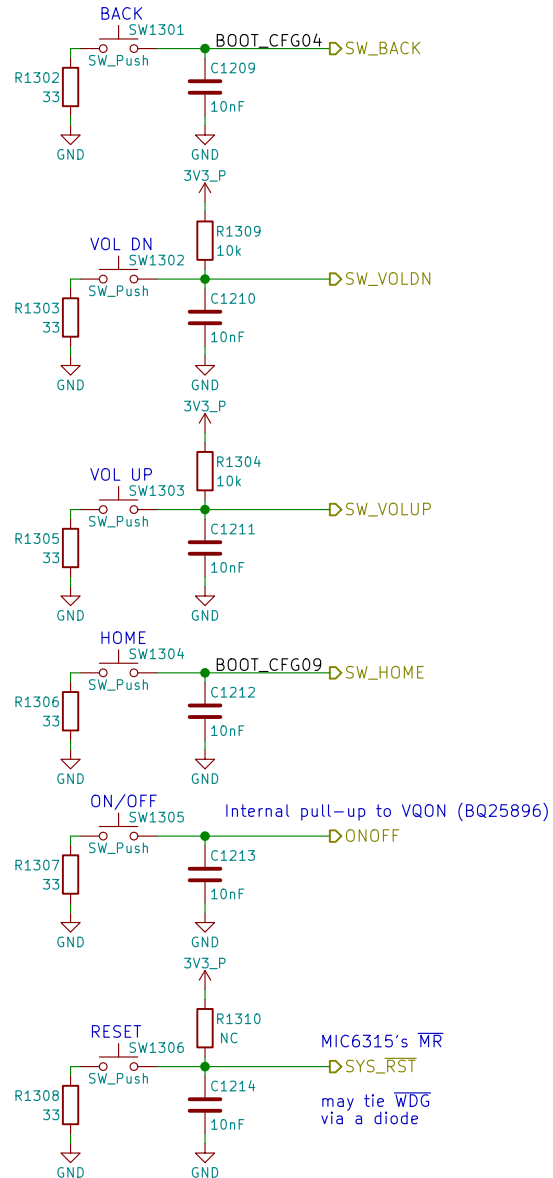
Size: A4 Date: 2018-05-02

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Rev: v0.1.0

Id: 11/17

SW NOTE:
Need to set Int. PU in SOC
on SW_BACK and SW_HOME



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

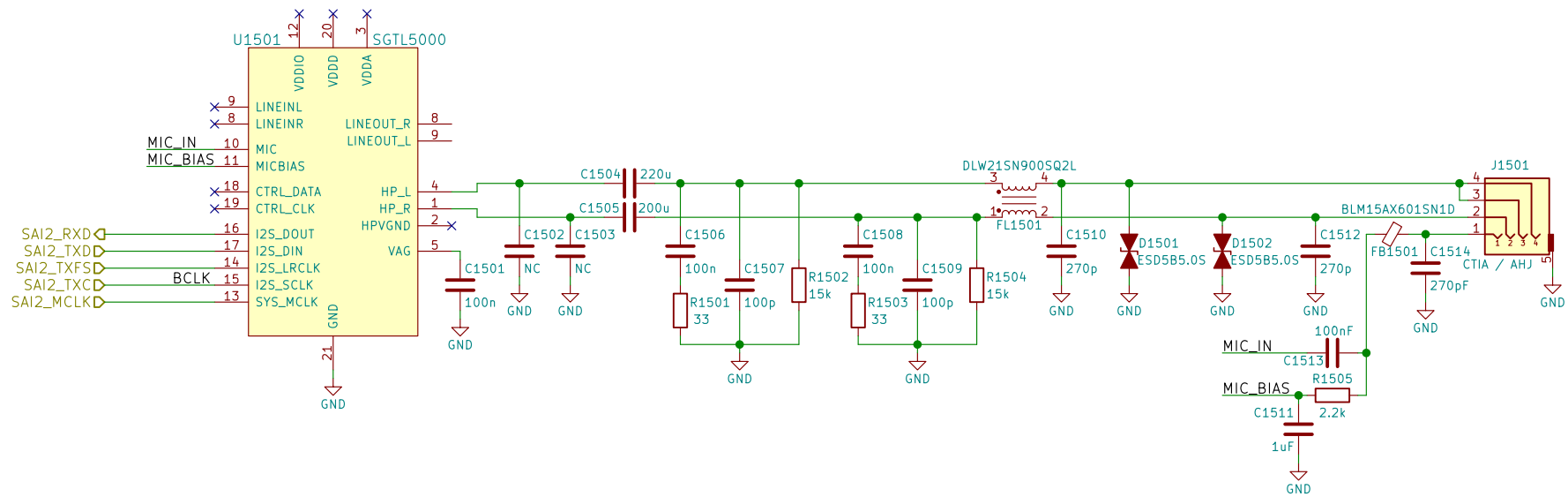
Title: Buttons & LED

Size: A4 Date: 2018-05-02

KiCad E.D.A. kicad 4.0.7

Rev: v0.1.0

Id: 12/17



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Sheet: /Audio/
File: audio.sch

Title: Audio

Size: A4 Date: 2018-05-02

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Rev: v0.1.0

Id: 14/17



EN	IN1	IN2	NC1/2/3 TO COM1/2/3, NC1/2/3 TO NC1/2/3	NC4/5/6 TO COM4/5/6, COM4/5/6 TO NC4/5/6	NO1/2/3 TO COM1/2/3, COM1/2/3 TO NO1/2/3	NO4/5/6 TO COM4/5/6, COM4/5/6 TO NO4/5/6
H	X	X	OFF	OFF	OFF	OFF
L	L	L	ON	ON	ON	ON
L	H	L	OFF	ON	OFF	OFF
L	L	H	ON	OFF	OFF	ON
L	H	H	OFF	OFF	ON	ON



Sheet: /SDIO DEMUX/
File: sdio_demux.sch

Size: A4	Date: 2018-05-02
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Rev: v0.1.0

Id: 16/17

RGMII 10/100/1000 Ethernet

Sheet: /Ethernet/
File: ethernet.sch

Title:

Size: A4	Date:	Rev:
KiCad E.D.A.	kiCad 4.0.7	Id: 17/17

Rev:
Id: 17/17