

place in scan matrix? would need 3-4 wires to UPPER board instead of 2!
 No. VOL+ or VOL- can either be connected to GPIOs
 or drive two FETs that sit in the keyboard matrix
 in any case it is sufficient to connect GPIO-VOL+ and VOL- to two pins on the B2B connector

Buttons

TITLE: untitled

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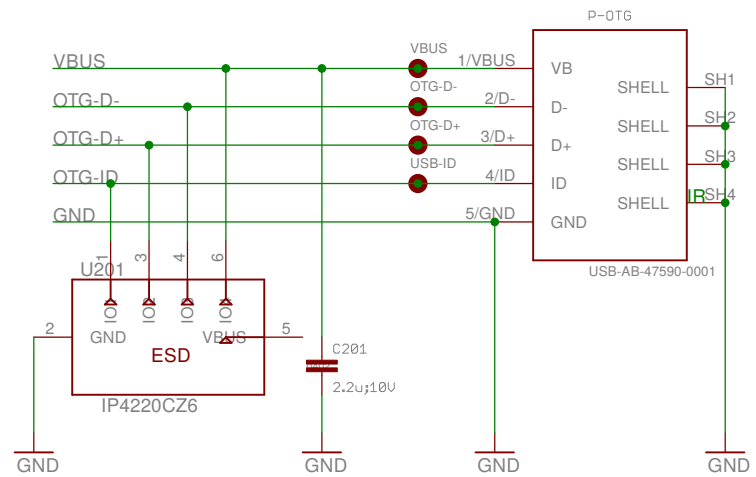
REV:

Date: nicht gespeichert!

Sheet: 1/29

Ok for V2b

Layout: place test points in battery bay



OTG

TITLE: untitled

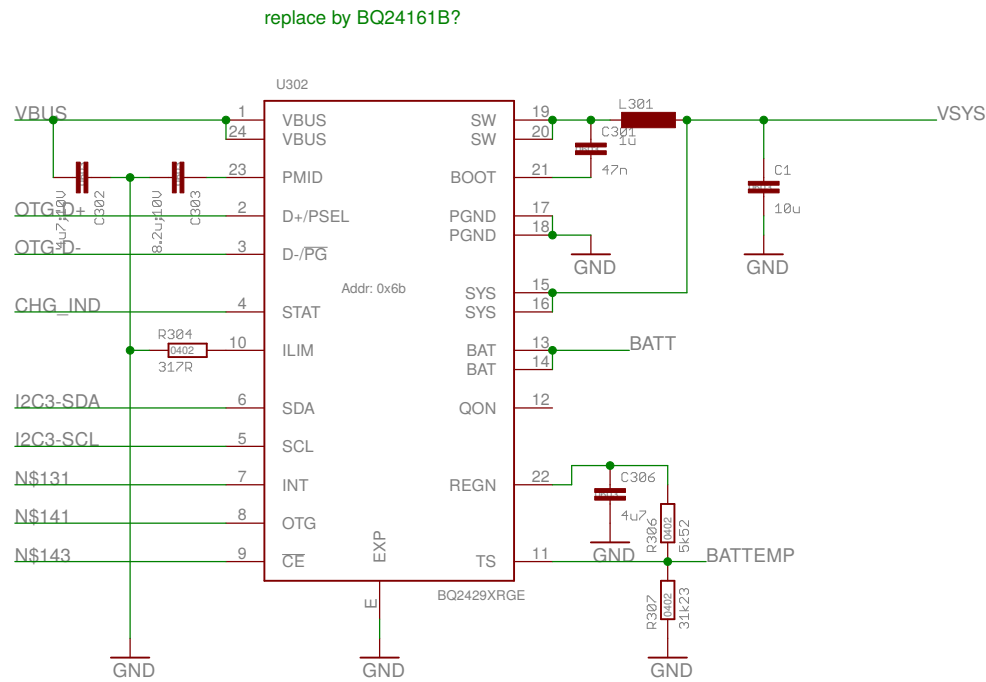
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Ok for V2b



Charger/OTG-Booster

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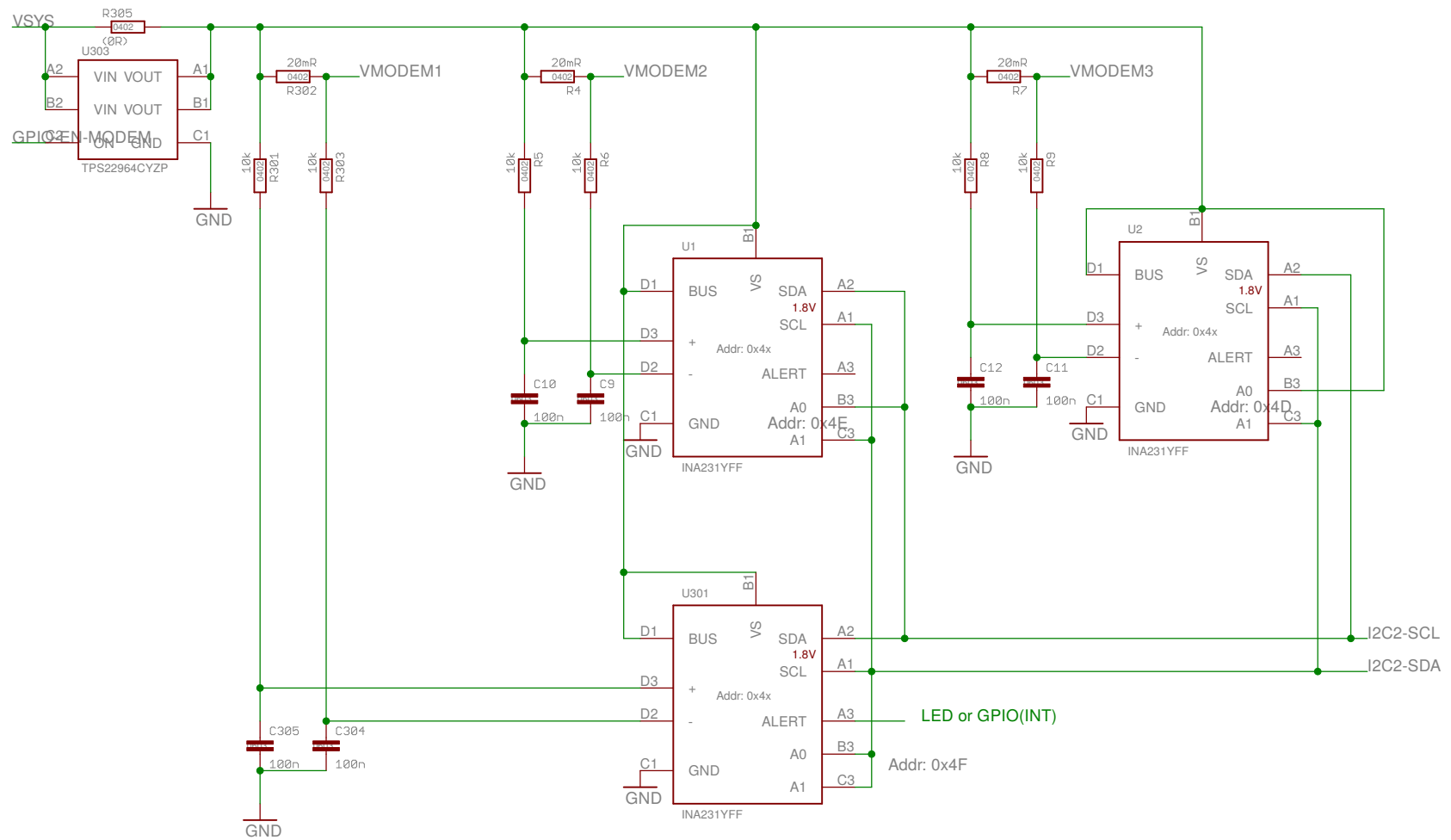
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Modem Power

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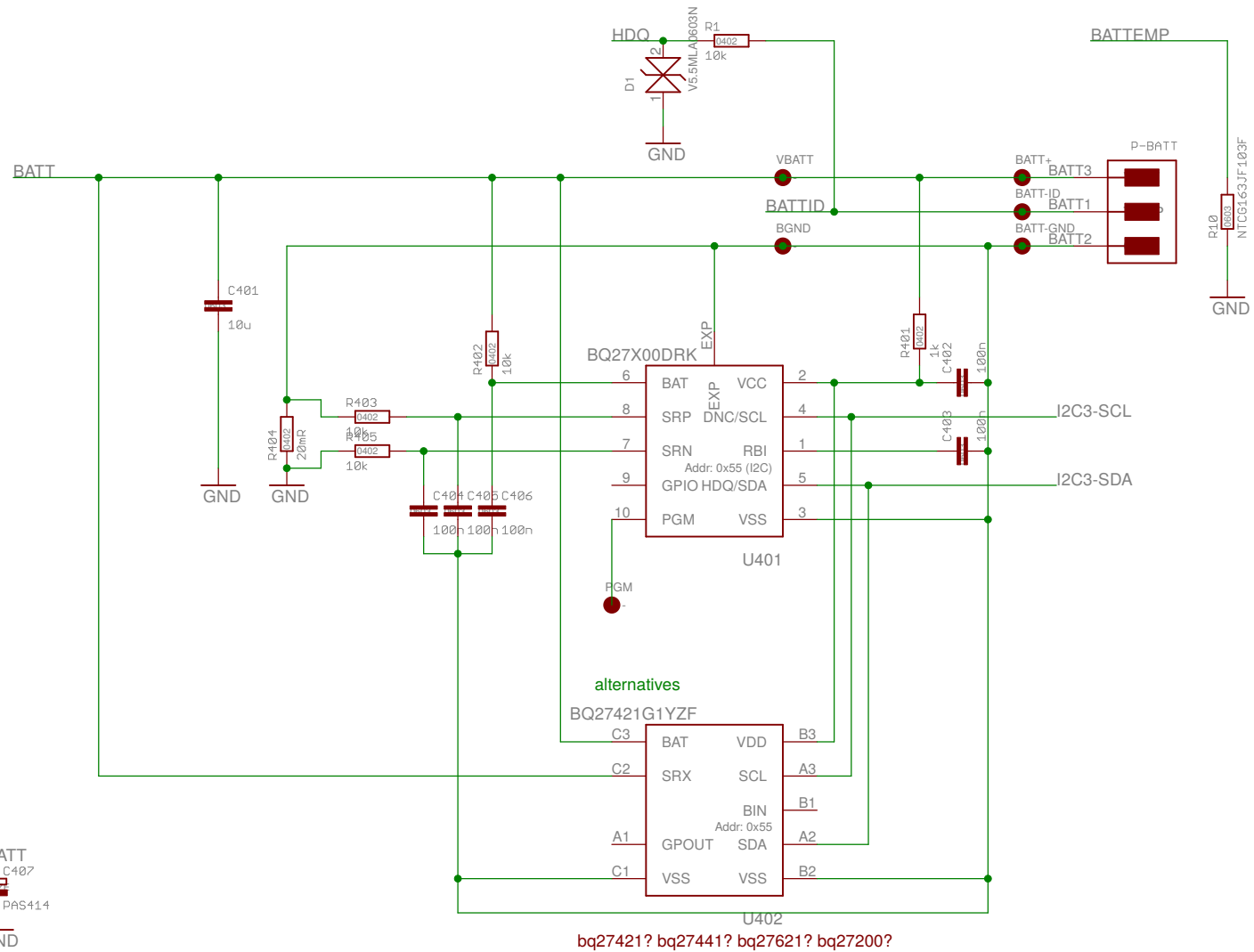
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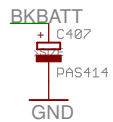
Date: nicht gespeichert!

Sheet: 4/29

Ok for V2b



auf Upper schieben?



battery cage to GND?

bq27421? bq27441? bq27621? bq27200?

Fuel Gauge

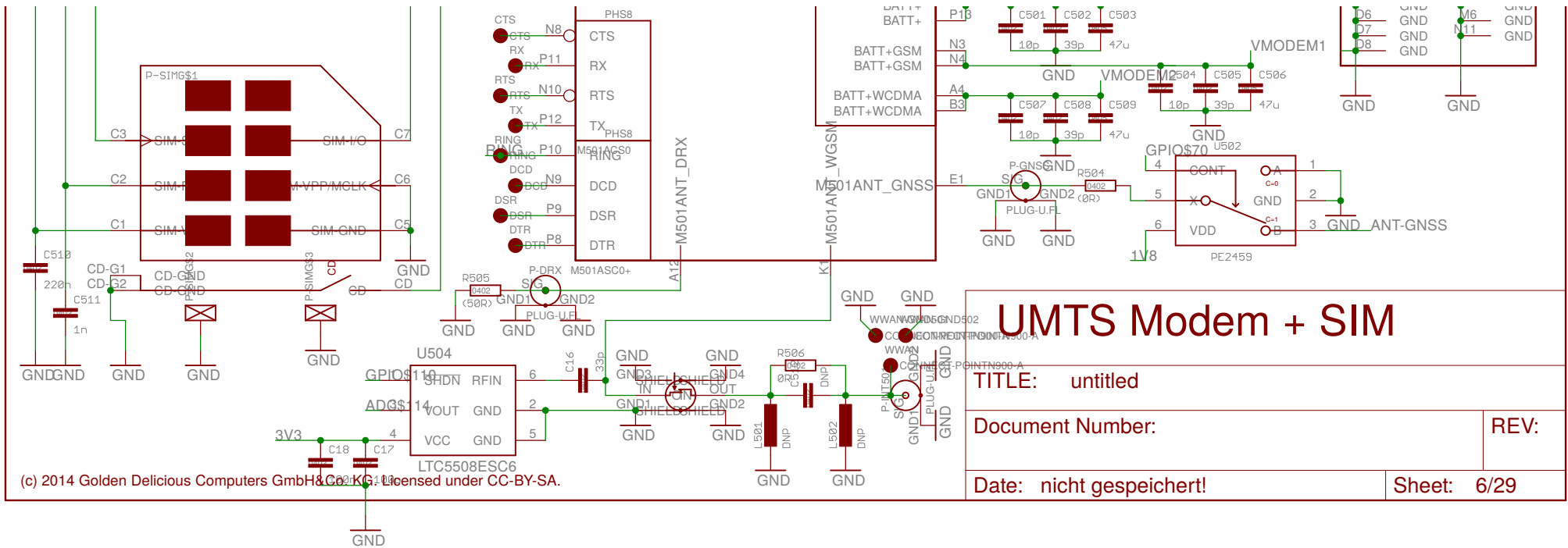
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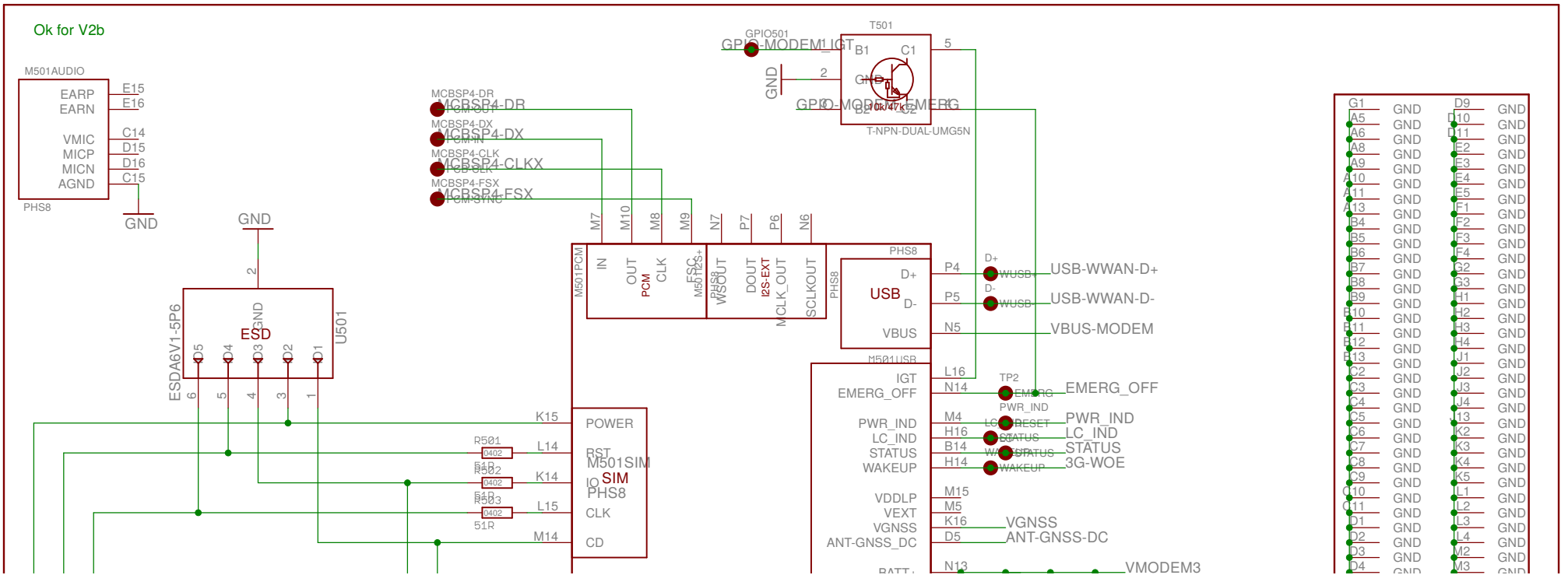
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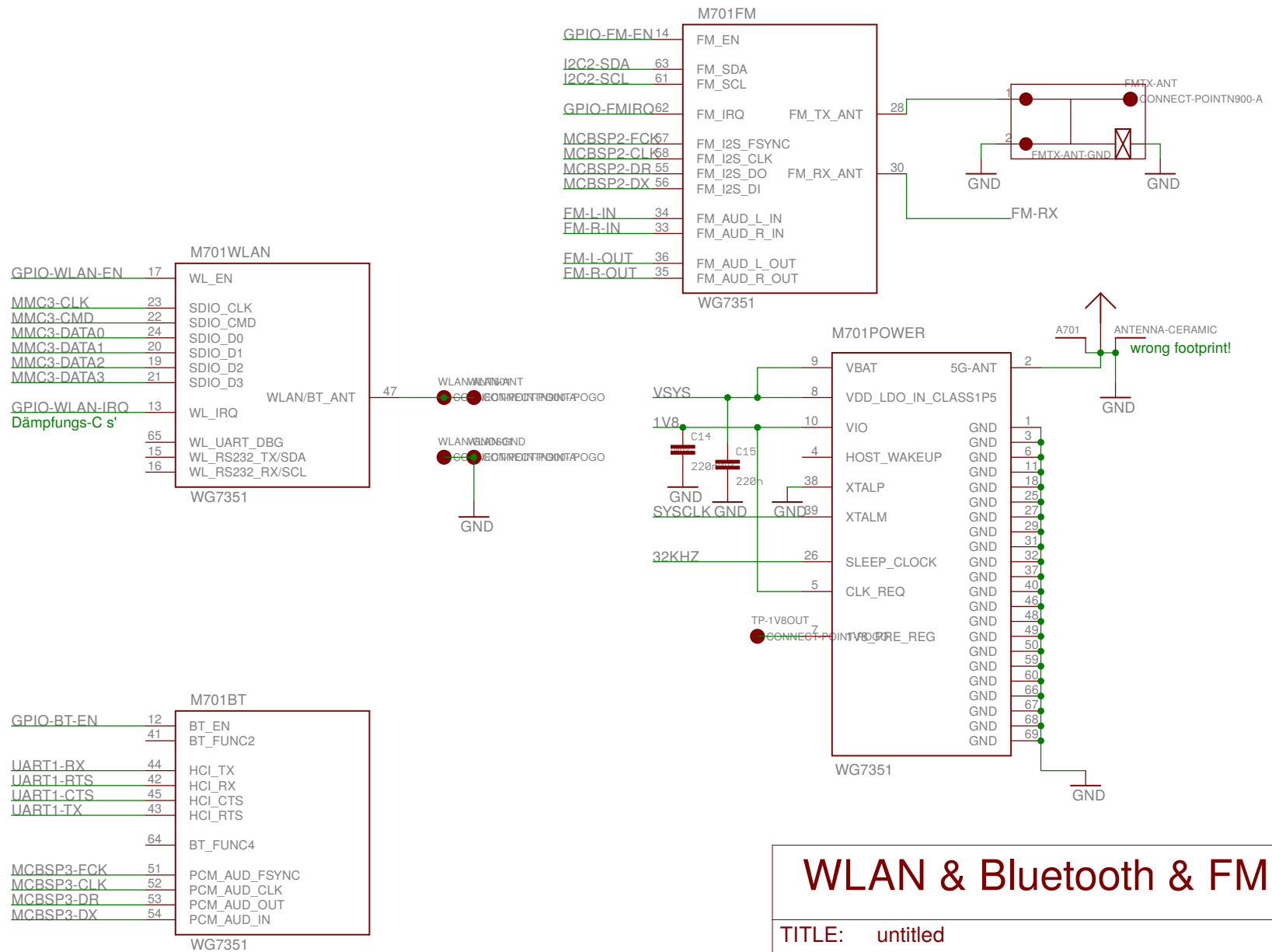
Sheet: 5/29



Ok for V2b



Ok for V2b



WLAN & Bluetooth & FM

TITLE: untitled

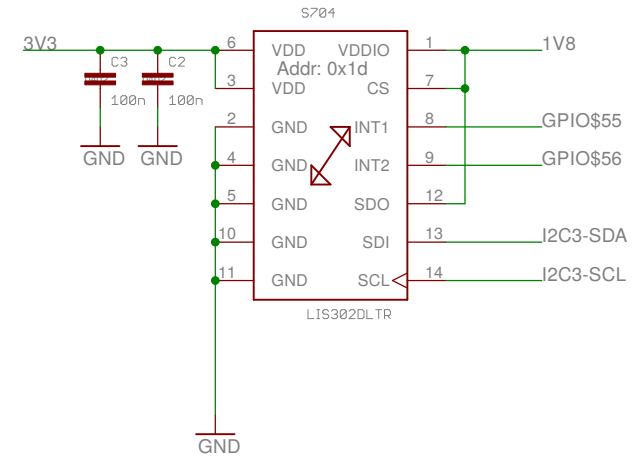
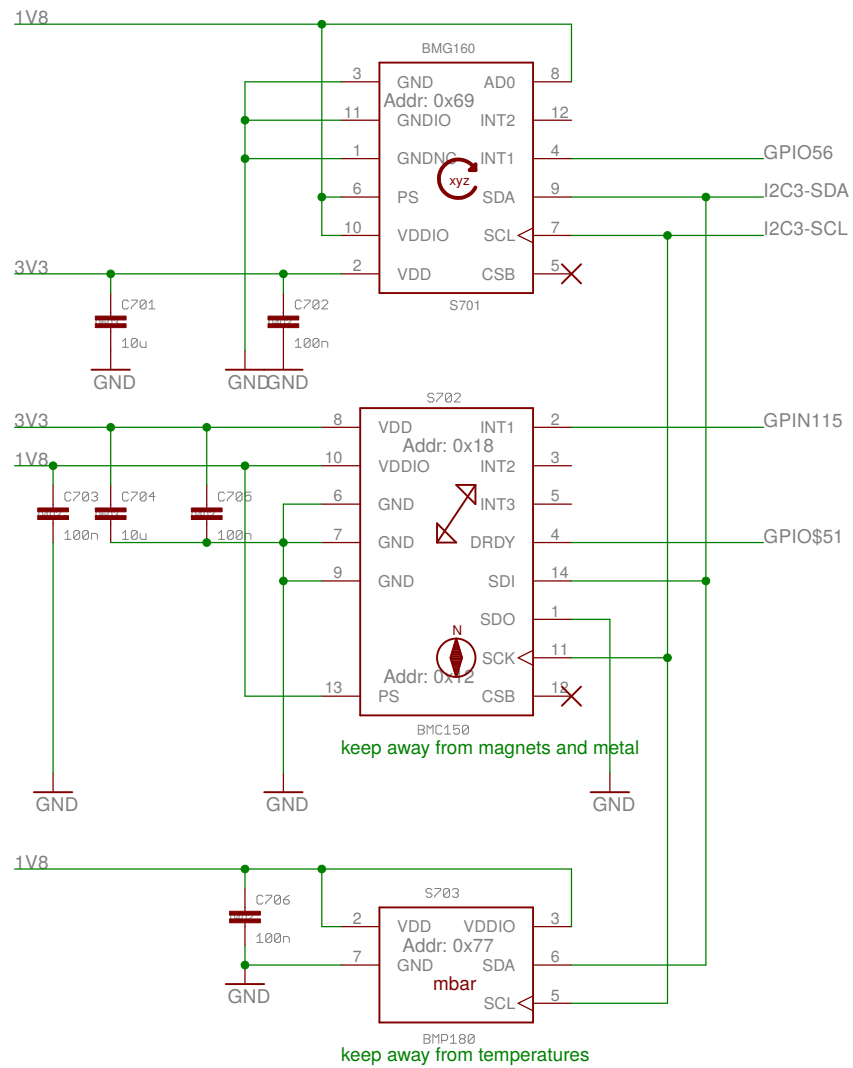
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Ok for V2b



Sensors

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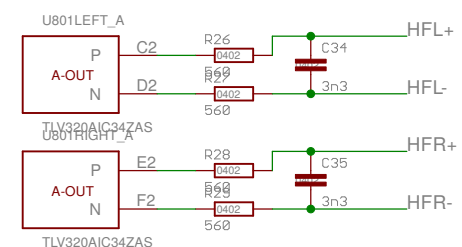
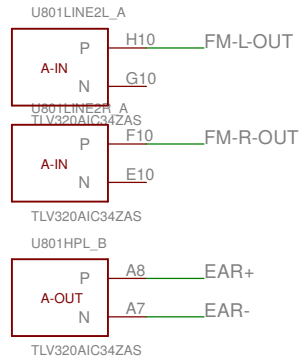
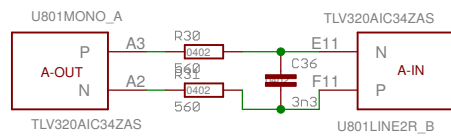
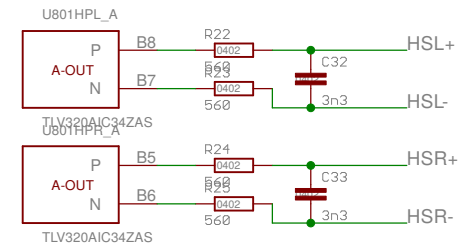
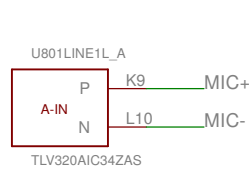
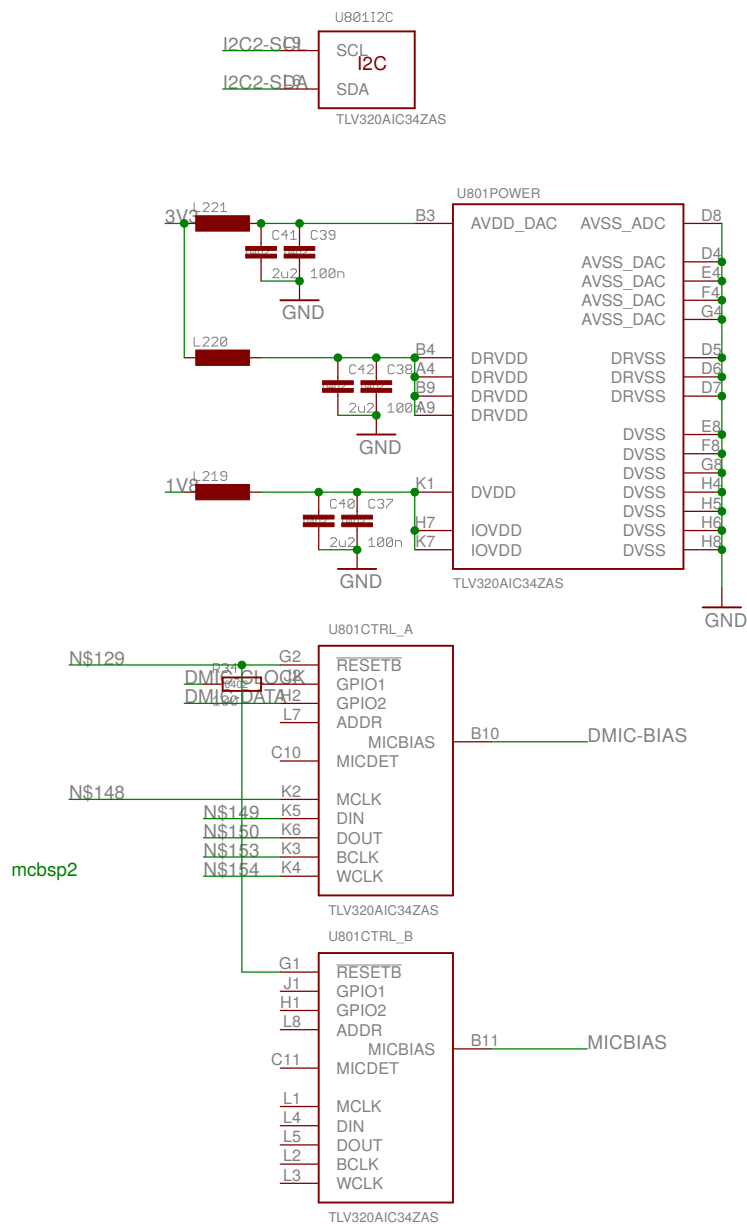
Sheet: 8/29

Ok for V2b

conflict with bmc150?

address: 0x18-0x1b

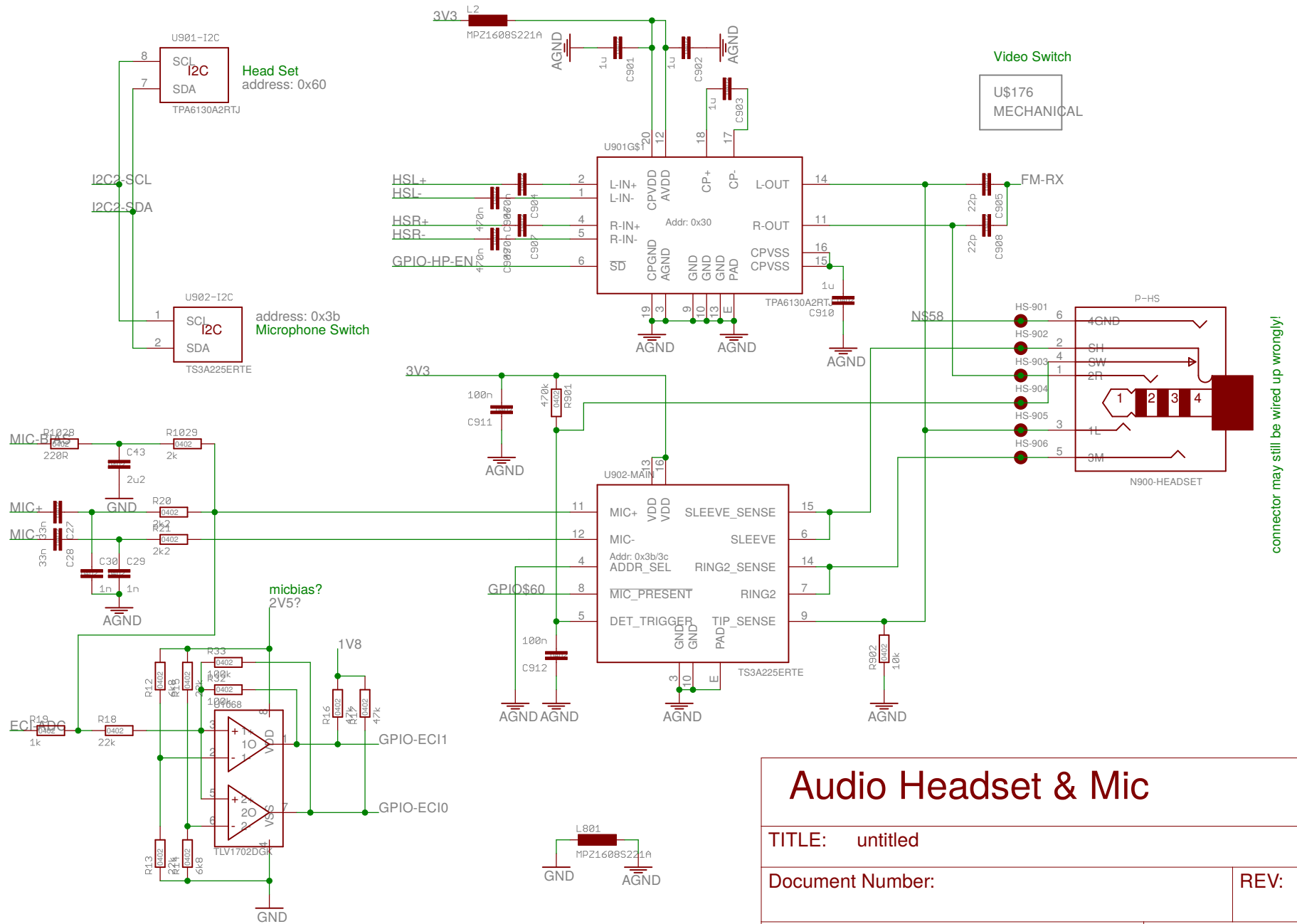
problem: this is a 0.5mm BGA making lower board expensive!
but it appears to be not extremely critical (only 3 rows and inner ring is GND)
problem: analog mic is on upper board!
alternative: place on upper board (to be evaluated)



Audio Codec

TITLE: untitled	
Document Number:	REV:
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Ok for V2b



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Audio Headset & Mic

TITLE: untitled

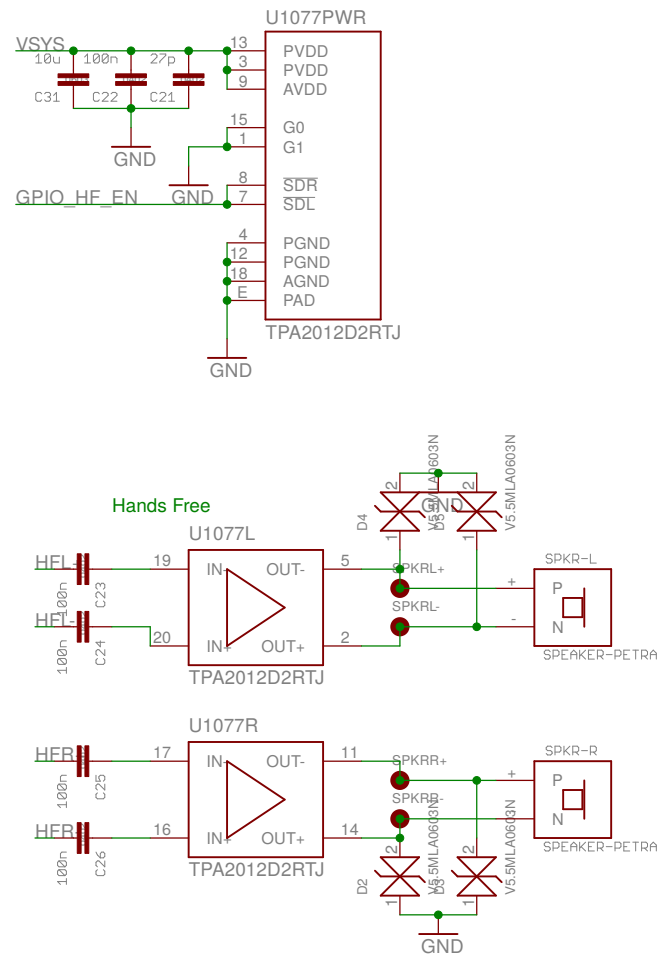
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Ok for V2b



Audio Handsfree

TITLE: untitled

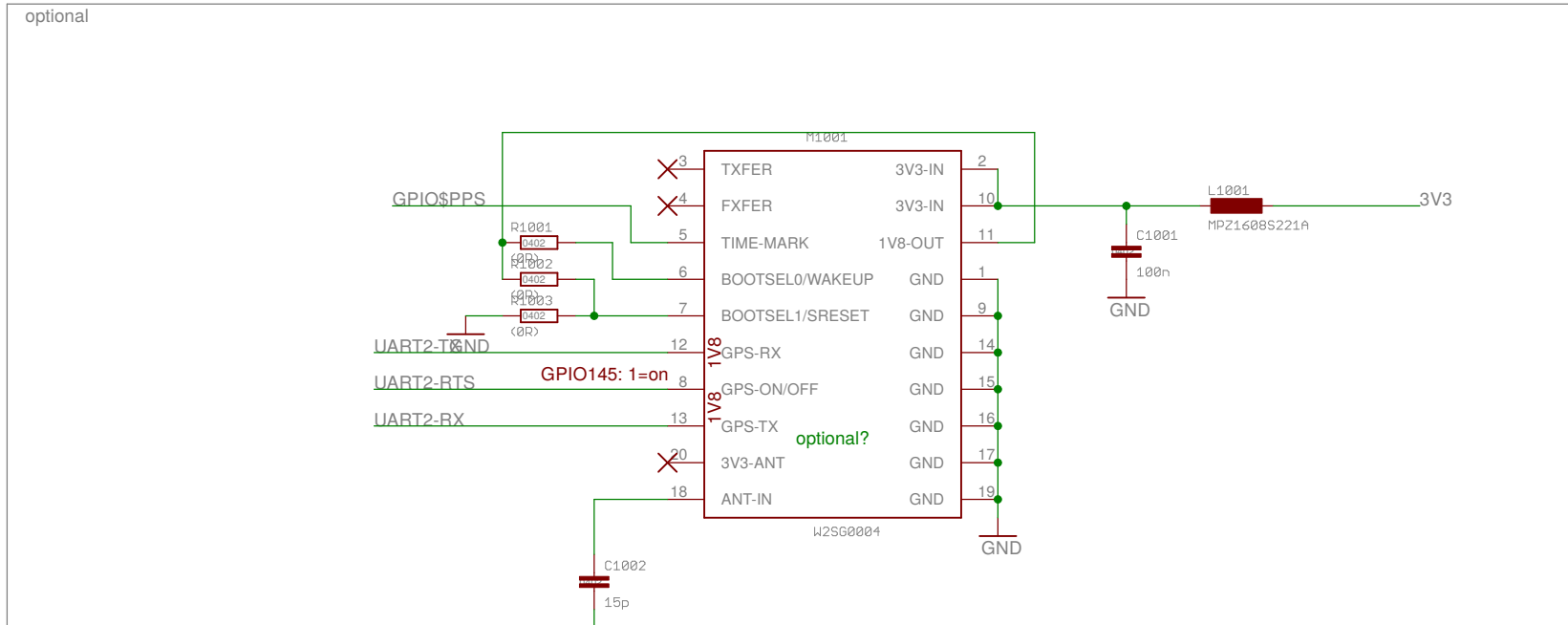
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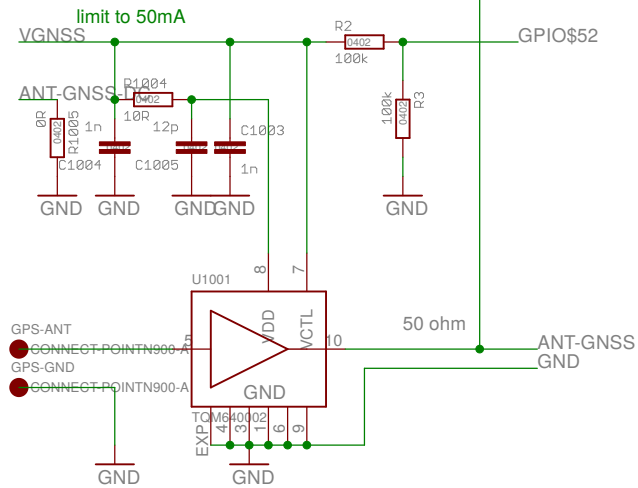
Sheet: 11/29

Ok for V2b



not needed if we can interrupt the ANT

separate supply?
independent of Modem?



GPS

TITLE: untitled

Document Number:

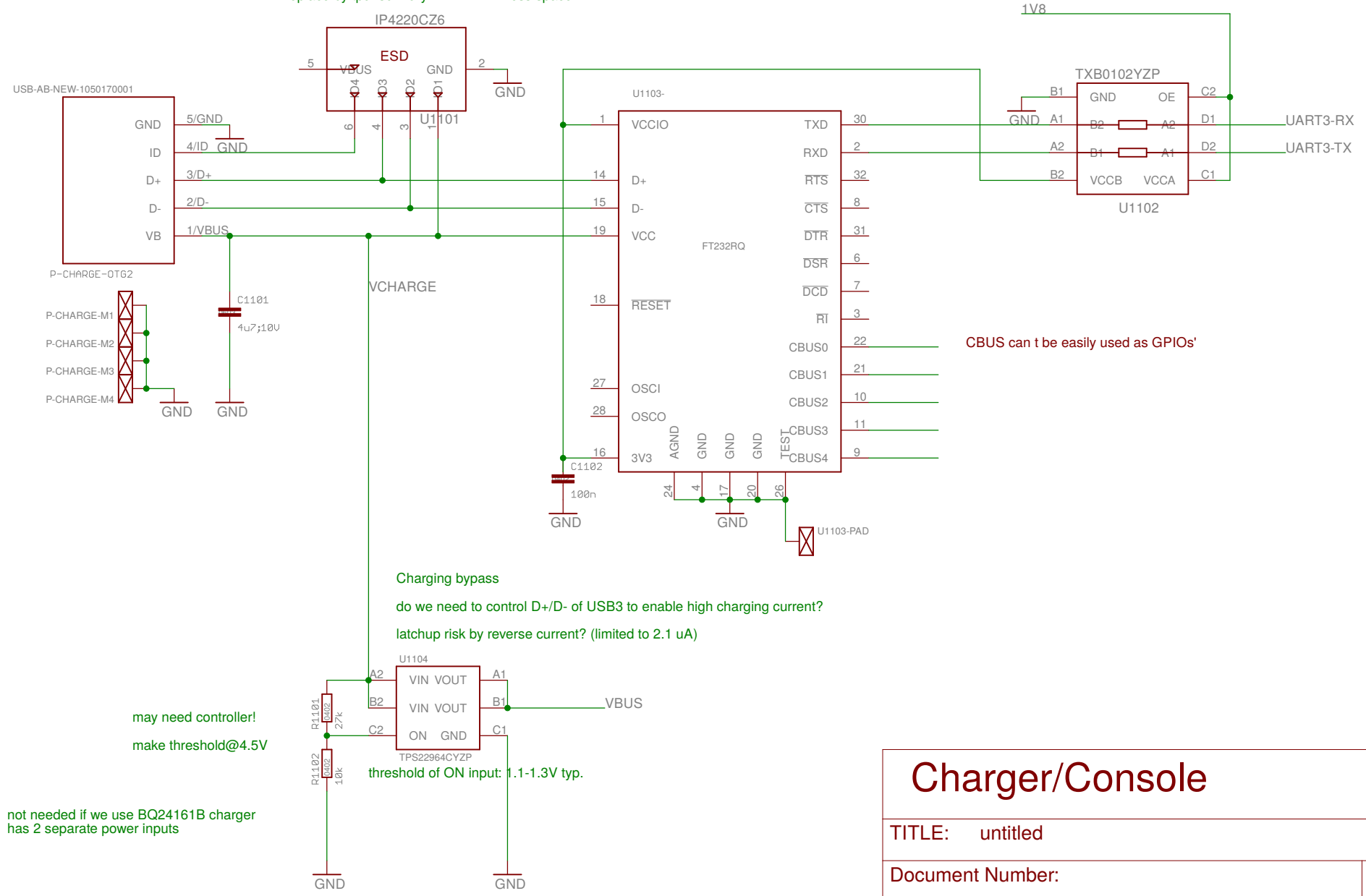
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Sheet: 12/29

Ok for V2b

replace by tpd4s012dryr? less space?



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Charger/Console

TITLE: untitled

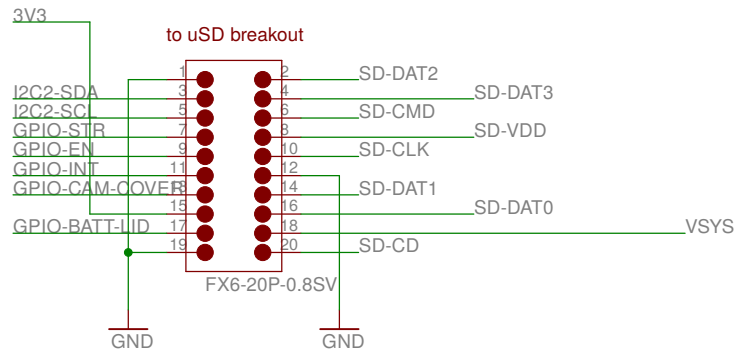
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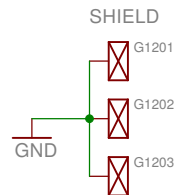
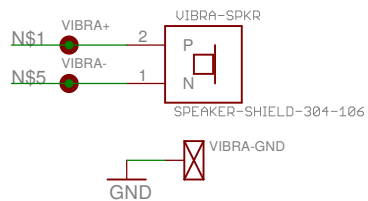
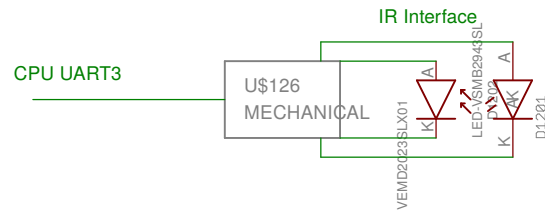
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Sheet: 13/29

Ok for V2b



2nd microphone on lower board? Or on bottom of upper?



Misc (lower)

TITLE: untitled

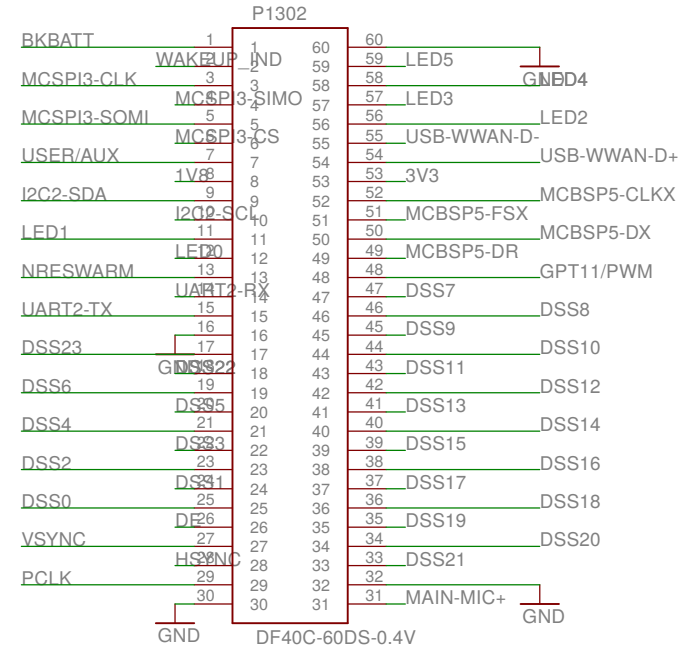
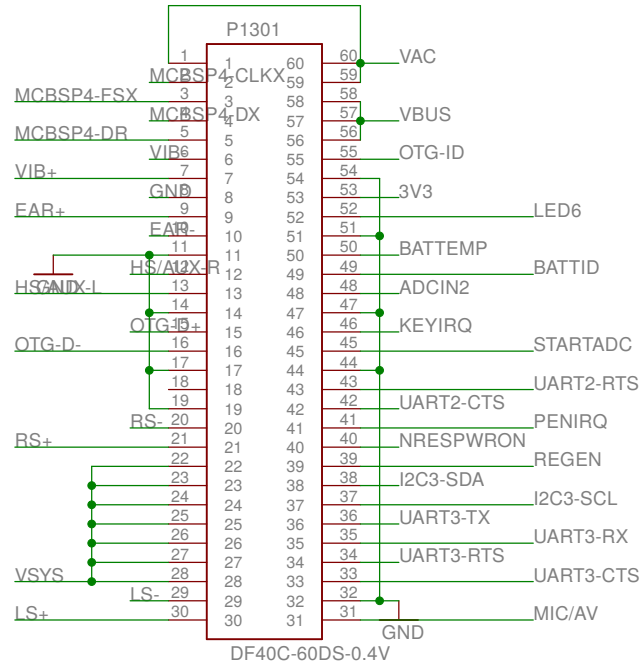
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pin assignment tbd. (draft copied from GTA04Custom)



B2B to upper board

TITLE: untitled

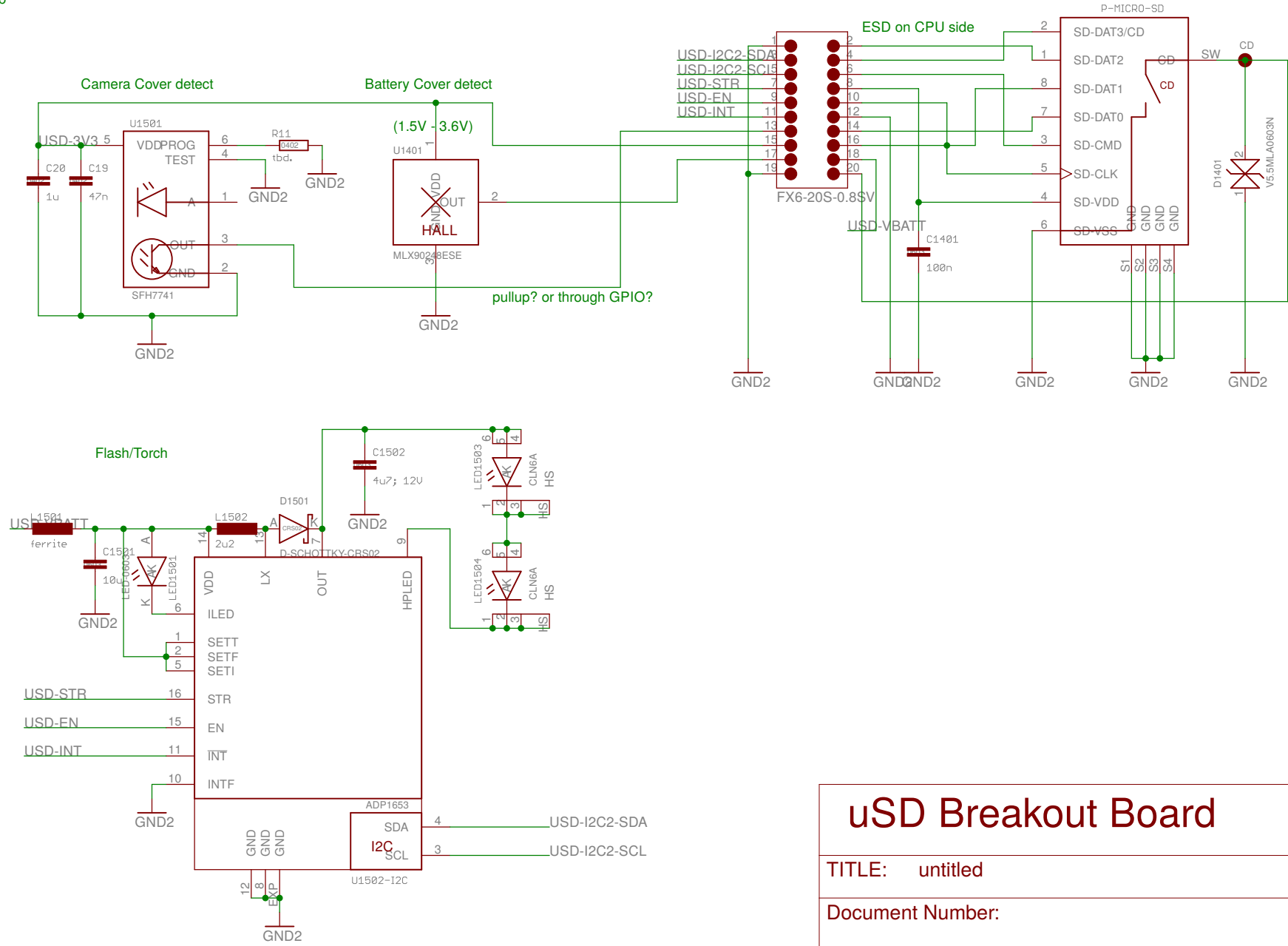
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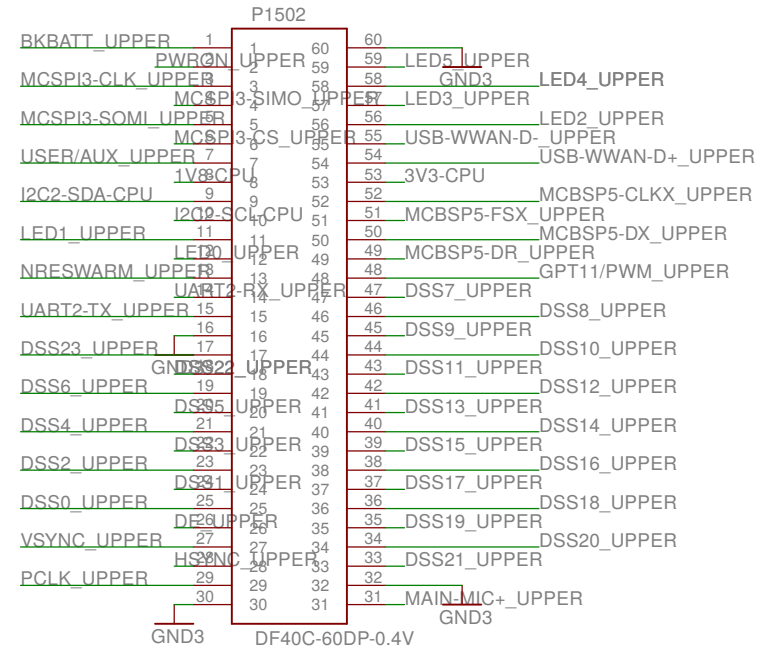
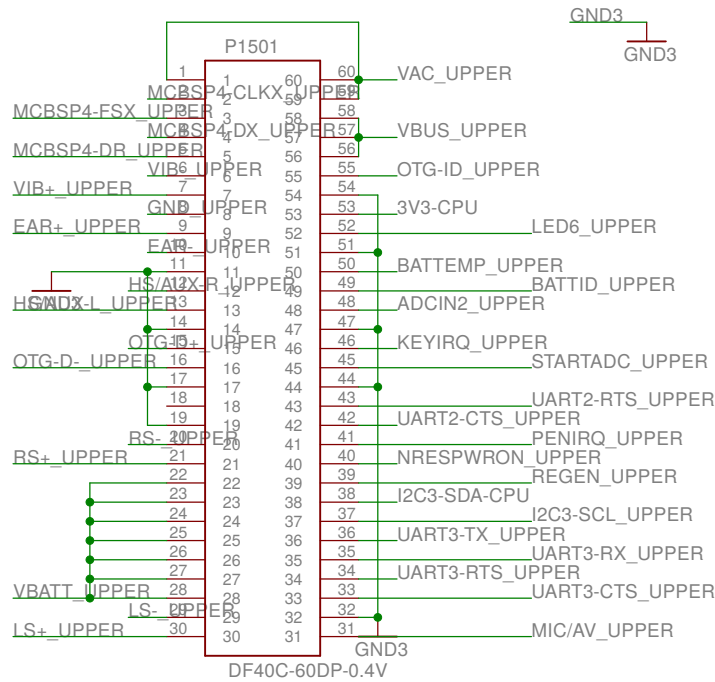
Sheet: 15/29

Ok for V2b



<h1>uSD Breakout Board</h1>	
TITLE: untitled	
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Date: nicht gespeichert!	Sheet: 16/29

to be adjusted to lower board connector

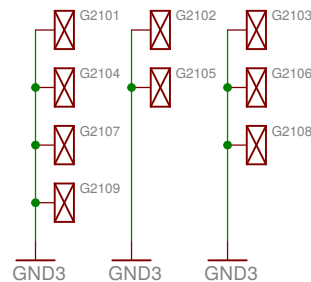


no longer needed:
DSS
keyirq, penirq

additionally needed:
main camera CSI-A

lockswitch: 113 cam-focus: 58 cam-trigger: 69

SHIELD



B2B to lower board

TITLE: untitled

Document Number:

REV:

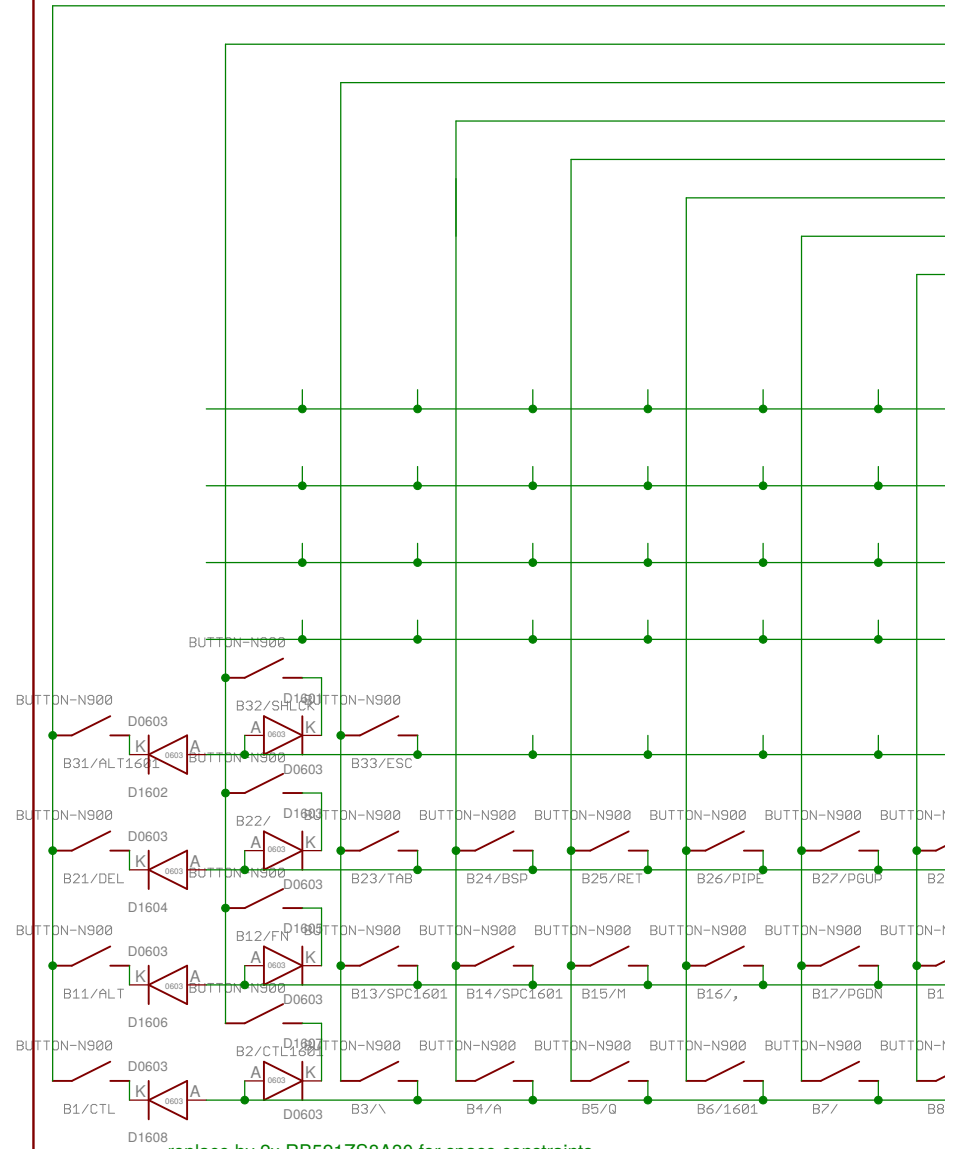
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Sheet: 17/29

Ok for V2b

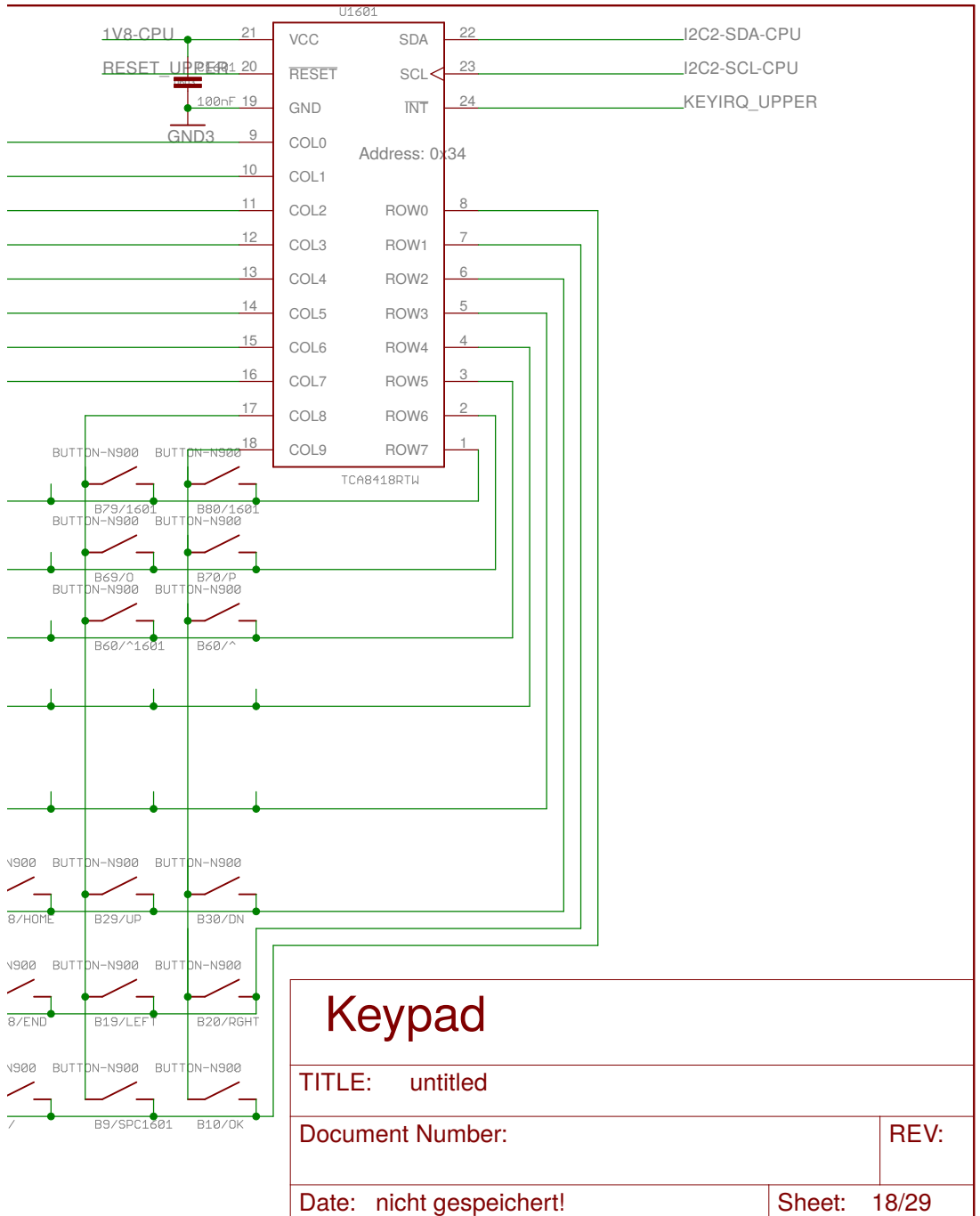
needs final tuning (which button on which position)

VOL+ and VOL- could drive FETs sitting in the matrix



replace by 2x RB521ZS8A30 for space constraints

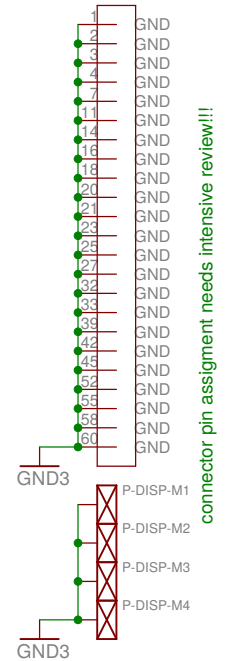
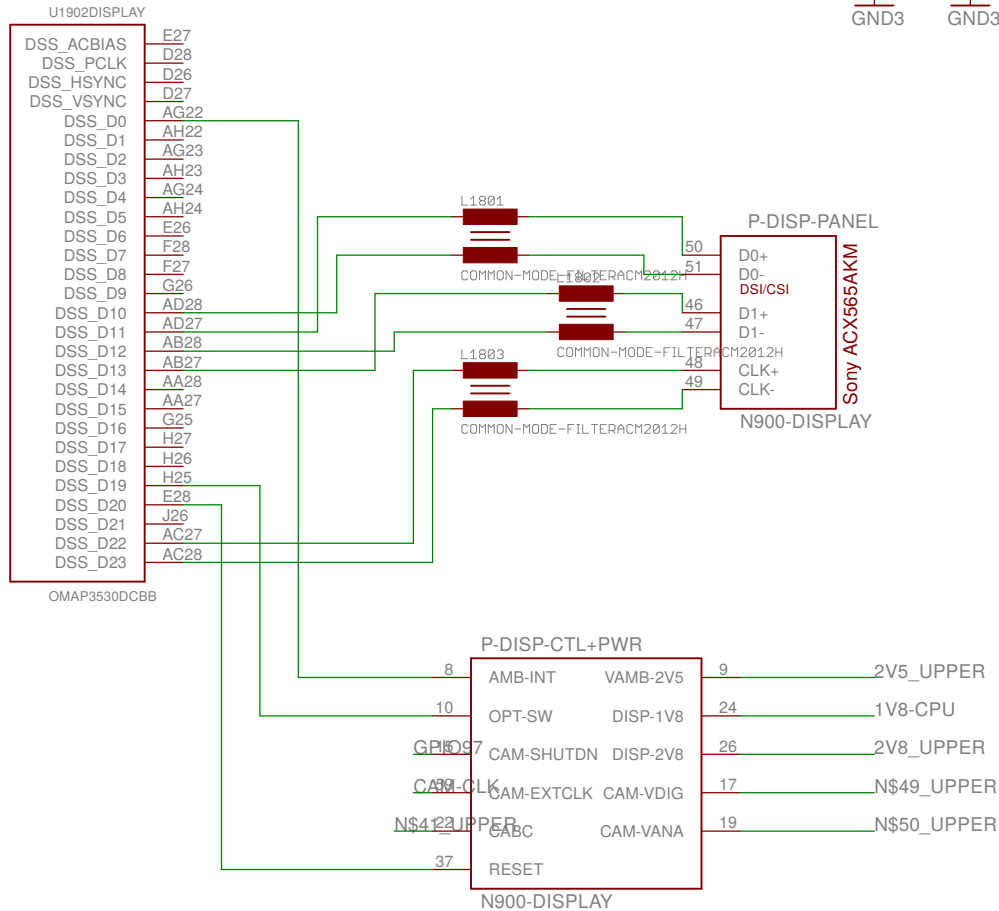
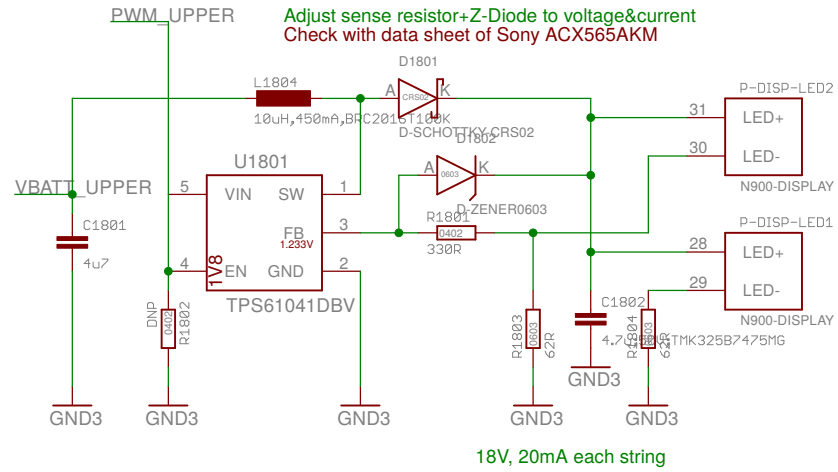
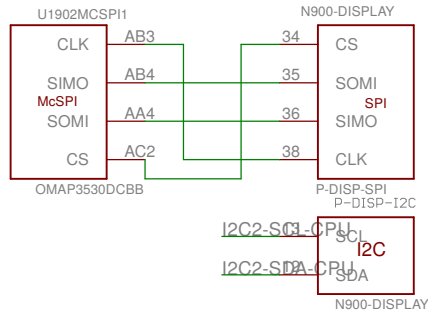
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Keypad

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Ok for V2b



Display-Panel&Power

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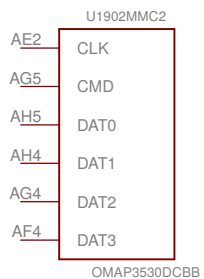
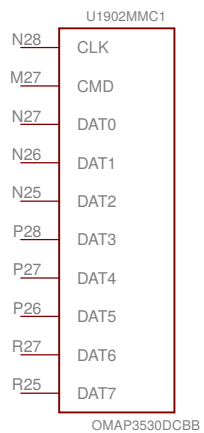
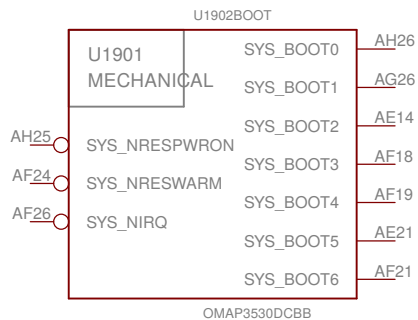
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Ok for V2b

POP or eMMC or both?



CPU + PoP RAM/NAND

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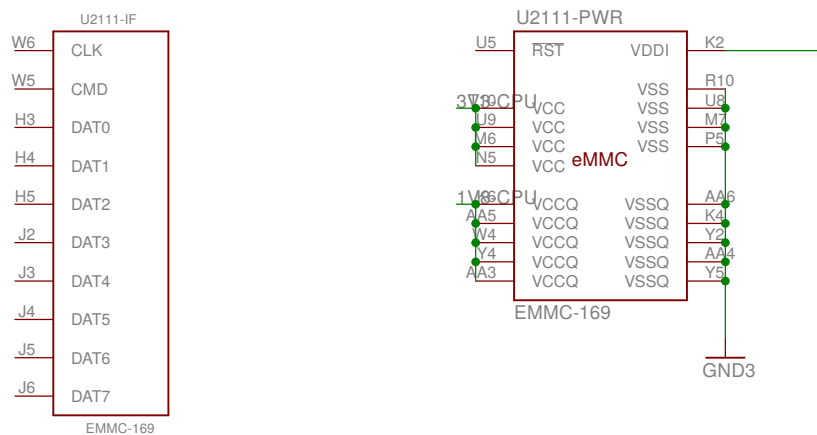
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Ok for V2b



eMMC

TITLE: untitled

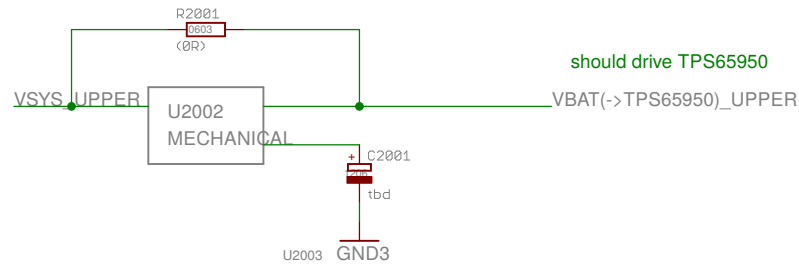
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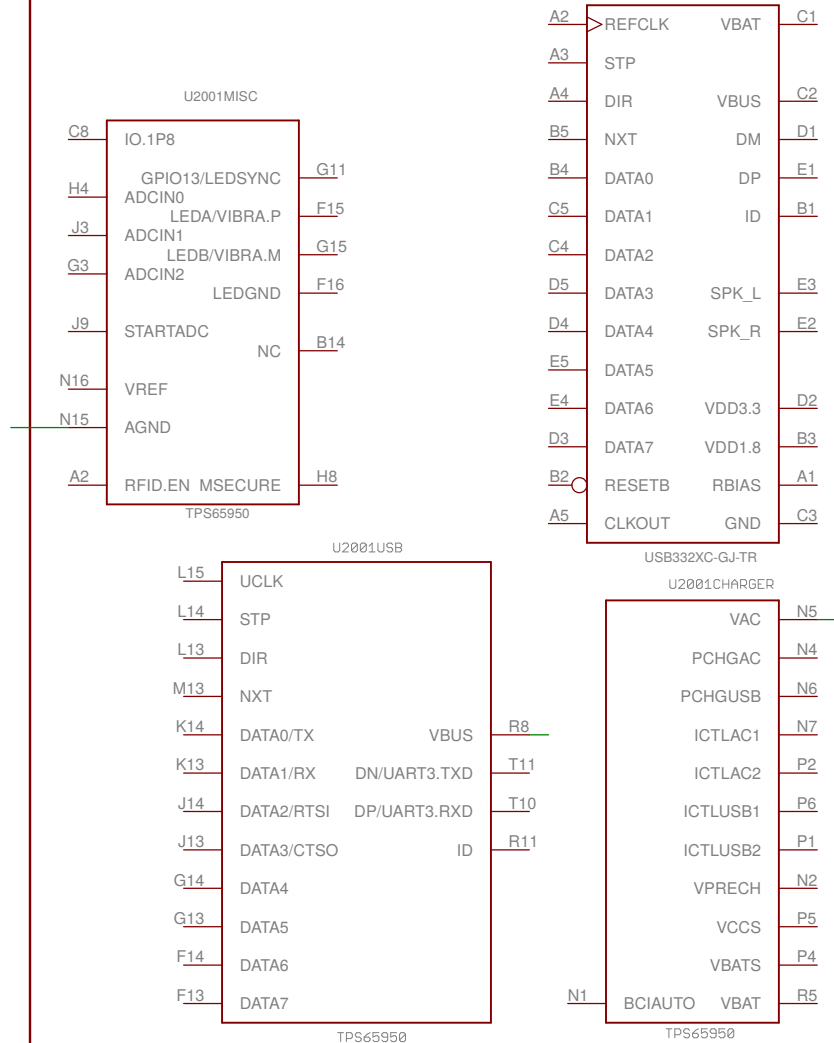
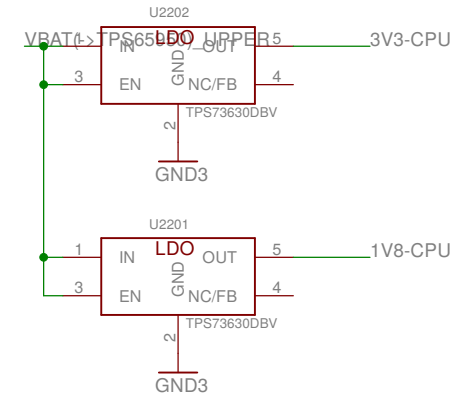
Sheet: 22/29

Ok for V2b



should drive TPS65950

simple capless 400mA LDO for TPS65950 substitute



PMU+Codec

TITLE: untitled

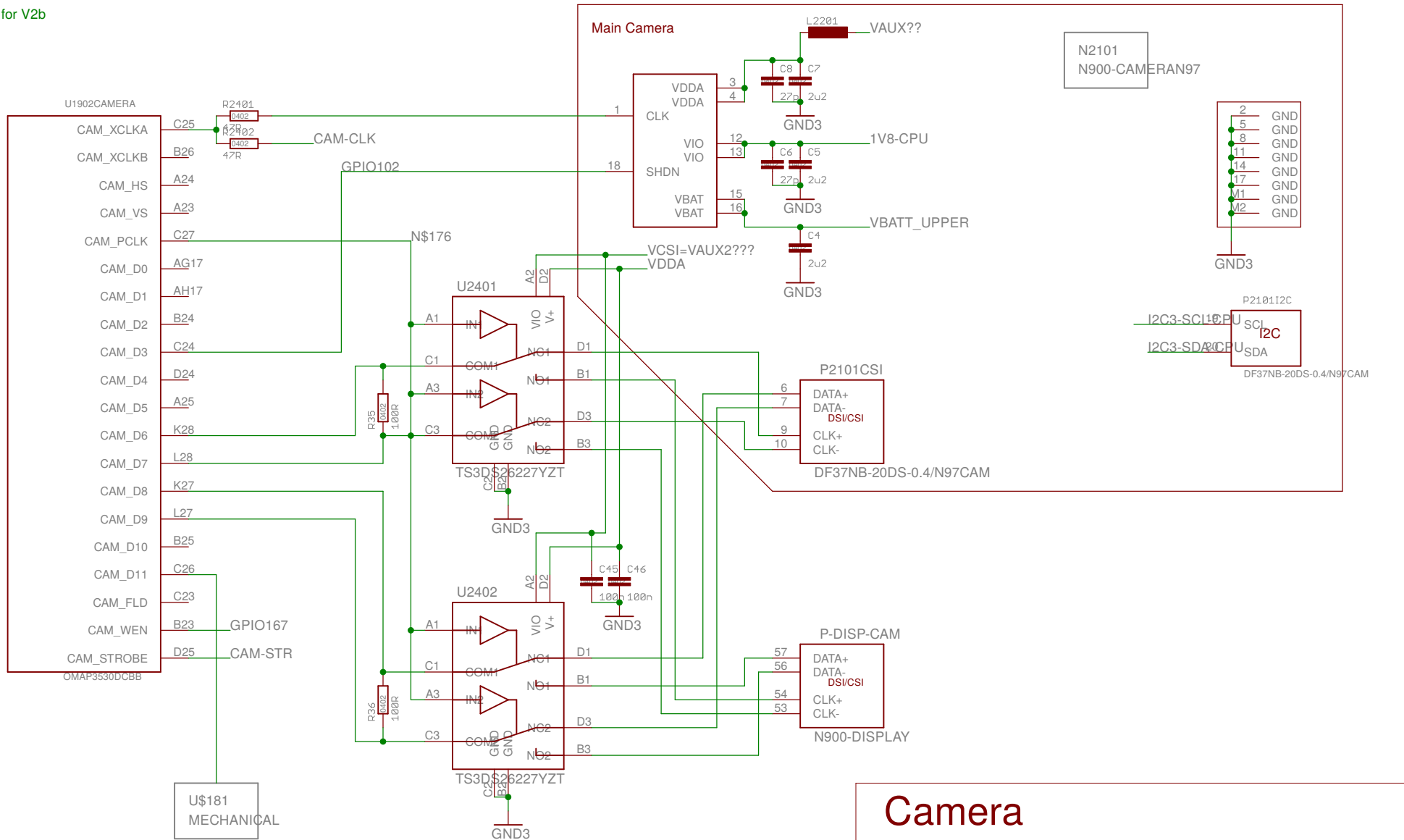
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Ok for V2b



Camera

TITLE: untitled

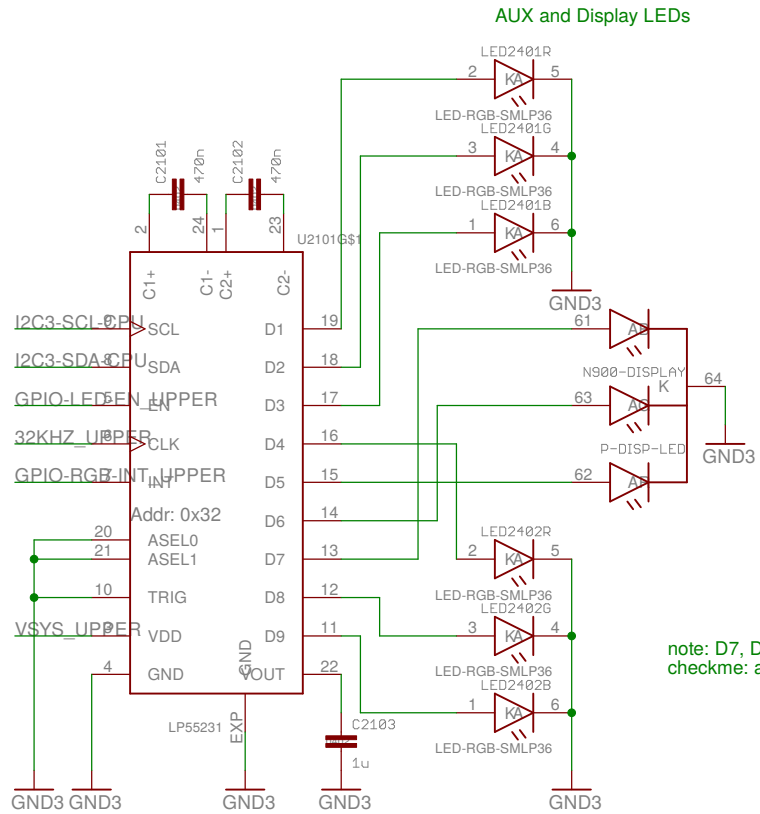
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Ok for V2b



LEDs

TITLE: untitled

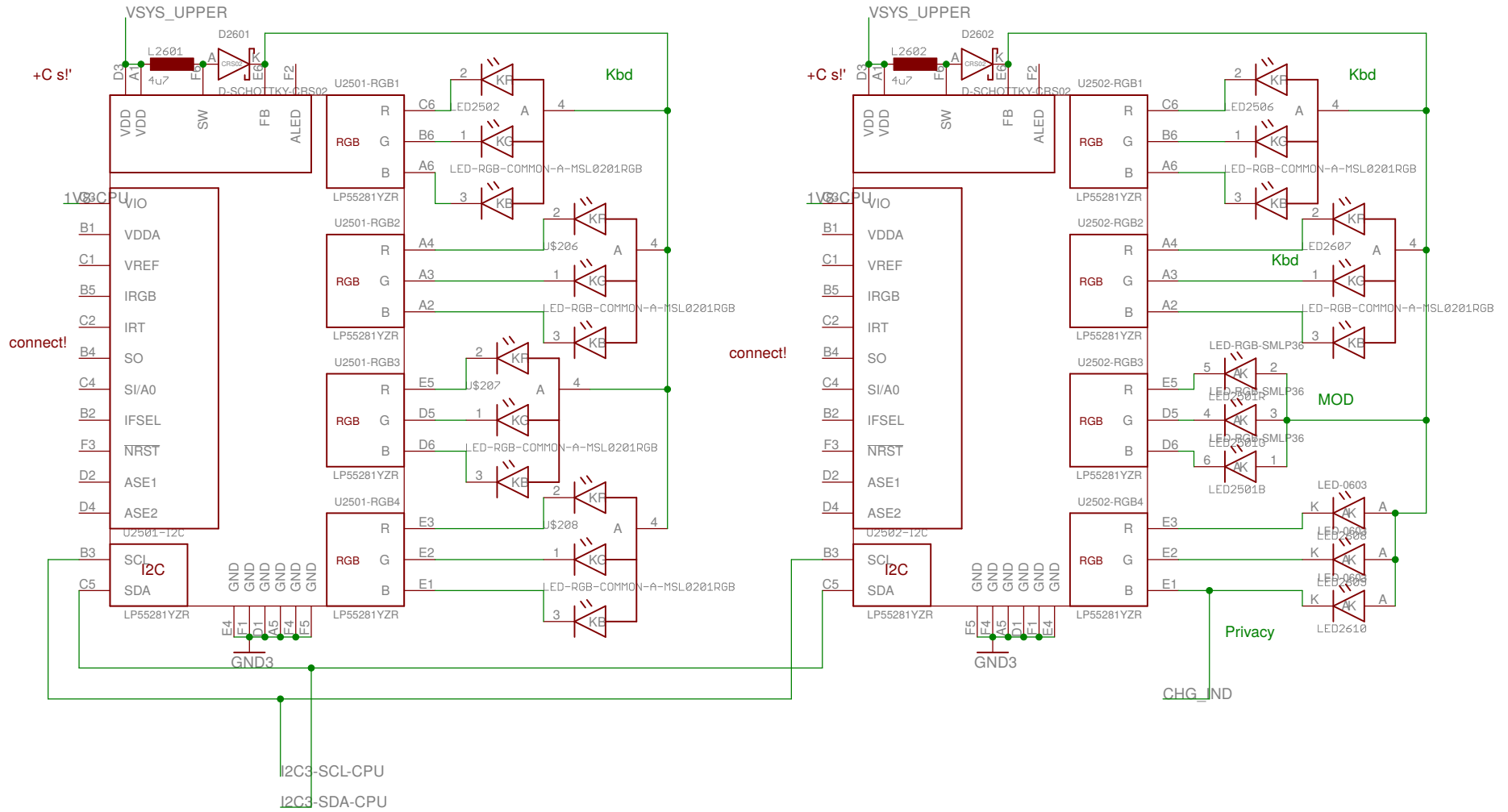
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Date: nicht gespeichert!

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Ok for V2b



Fancy LEDs

TITLE: untitled

Document Number:

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Date: nicht gespeichert!

Sheet: 26/29



DSS, McSPI1, I2C, Camera, some GPIOs

Connector to BB

TITLE: untitled

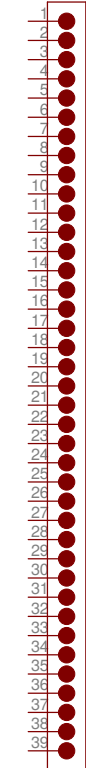
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Sheet: 27/29

53 signals + 3 power
+ camera

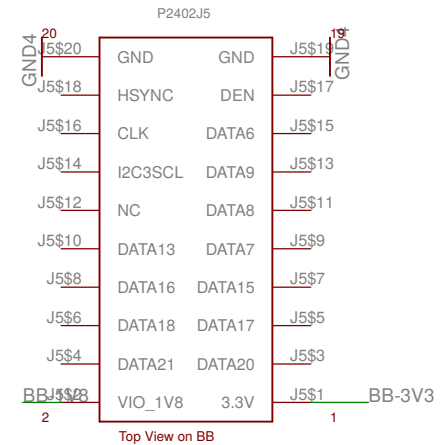
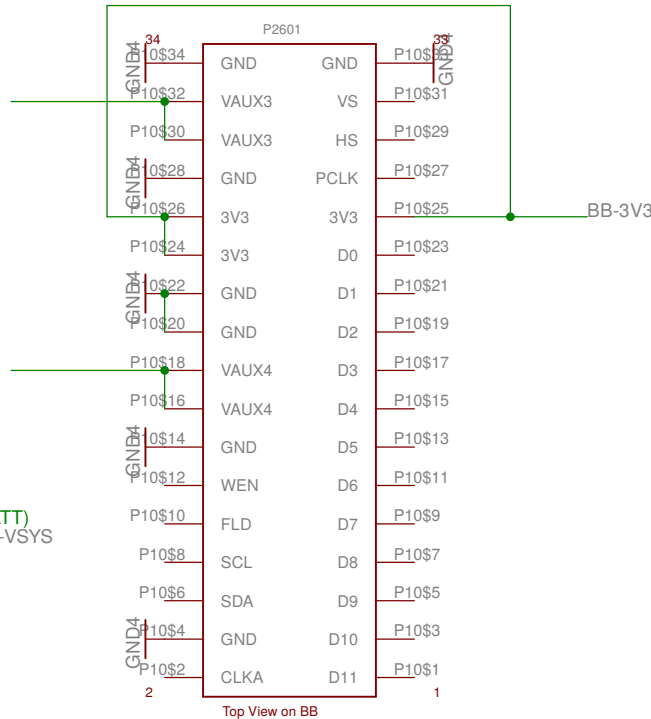
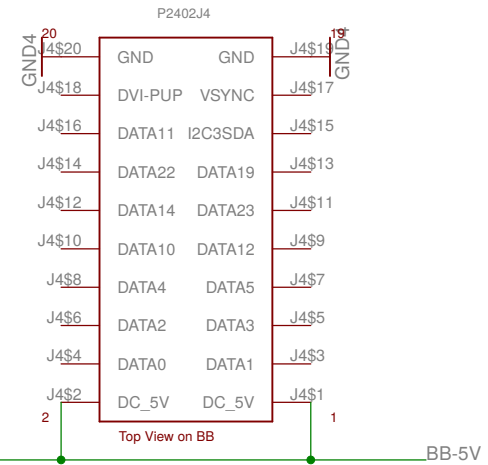
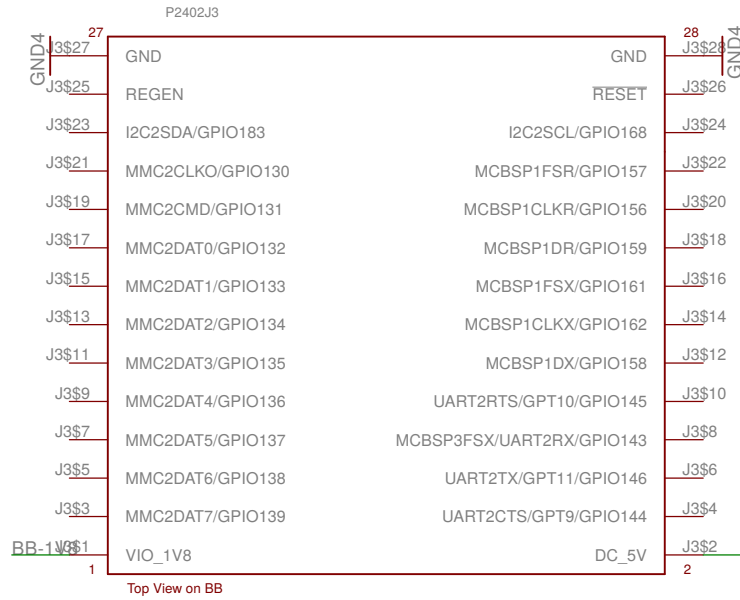
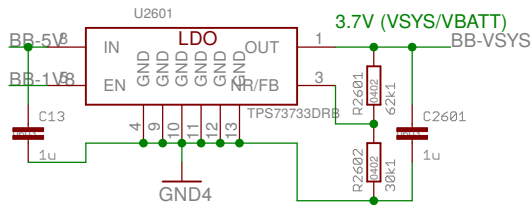


1v8???

vsys

gnd

reverse?



BB-XM Adapter

TITLE: untitled

Document Number:

REV:

Date: nicht gespeichert!

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Ok for V2b

N2501
MECHANICAL

N2401
N900-CAMERA N97-CAMERA-SPACE

N2502
MECHANICAL

N2503
MECHANICAL

N2504
MECHANICAL-STENCIL

N2505
MECHANICAL-STENCIL

No-Solder Components

TITLE: untitled

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