

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

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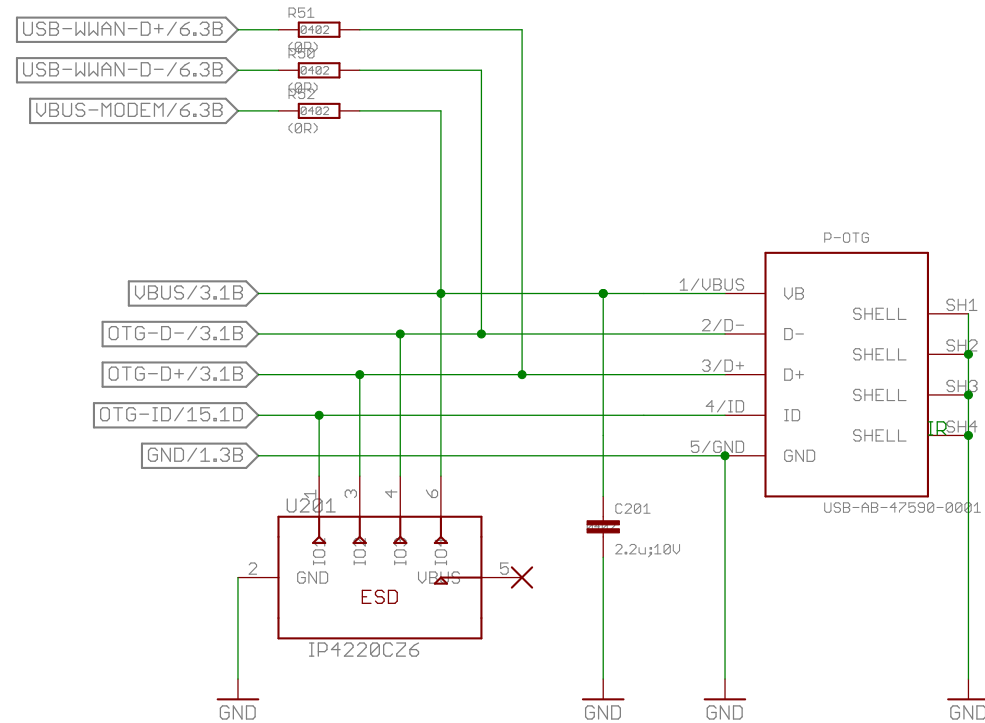
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can be used to test/operate the modem through the OTG port (w/o UPPER PCB)



OTG

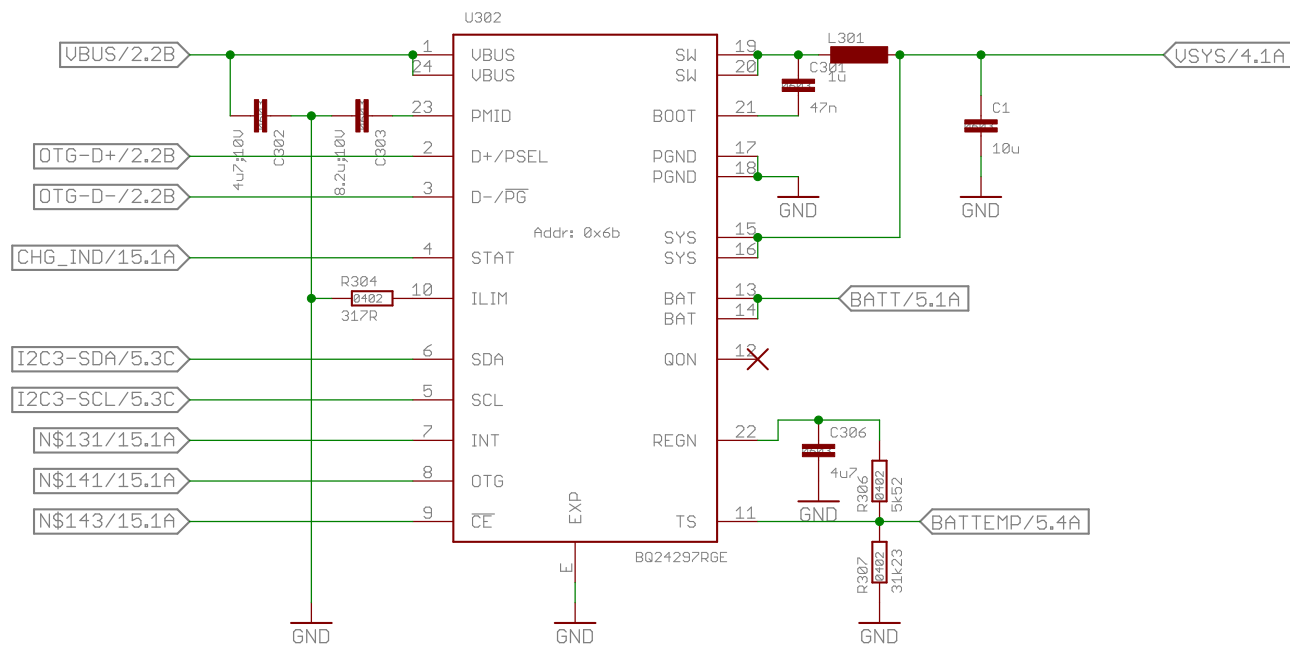
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Charger/OTG-Booster

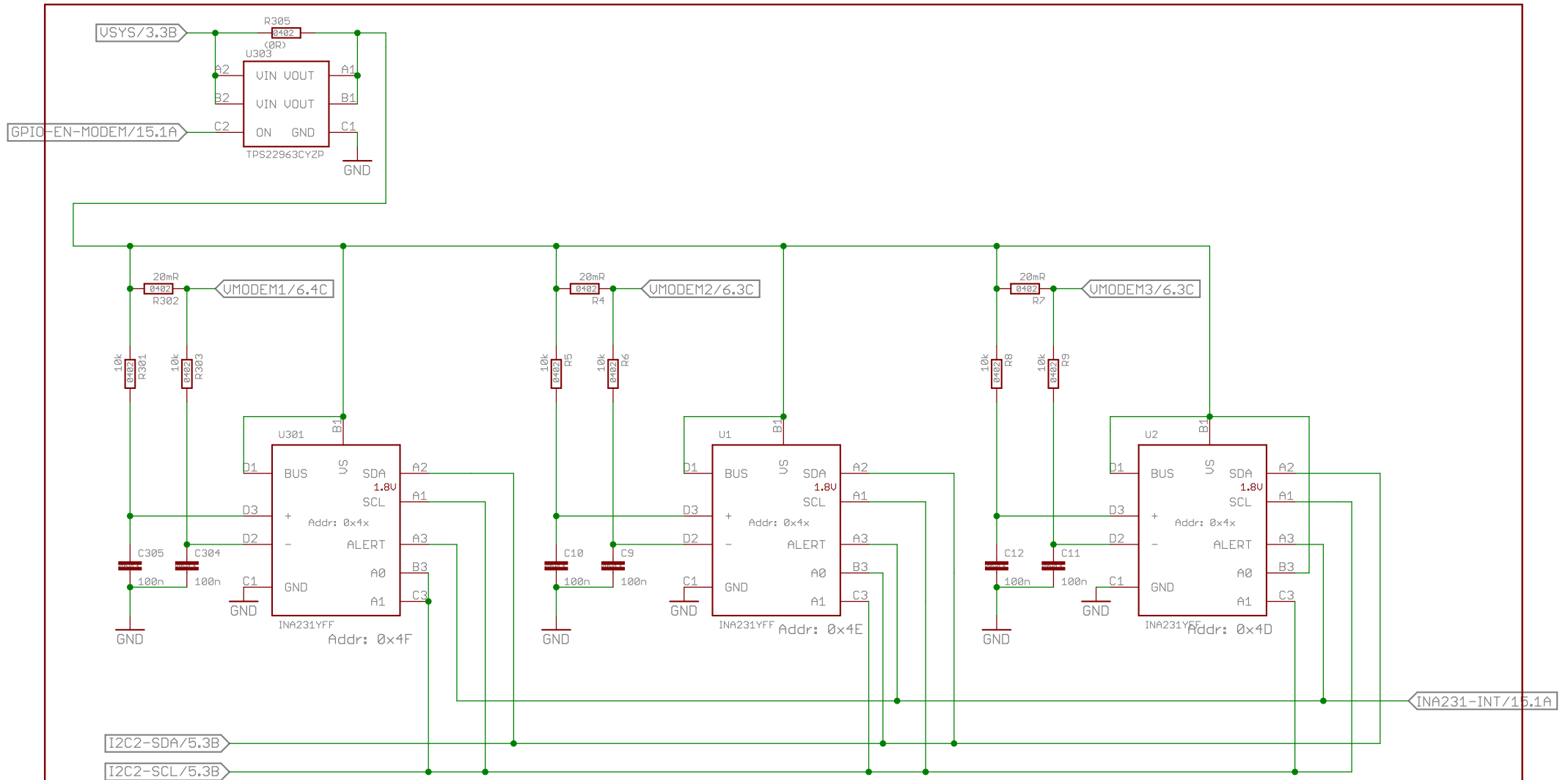
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Modem Power

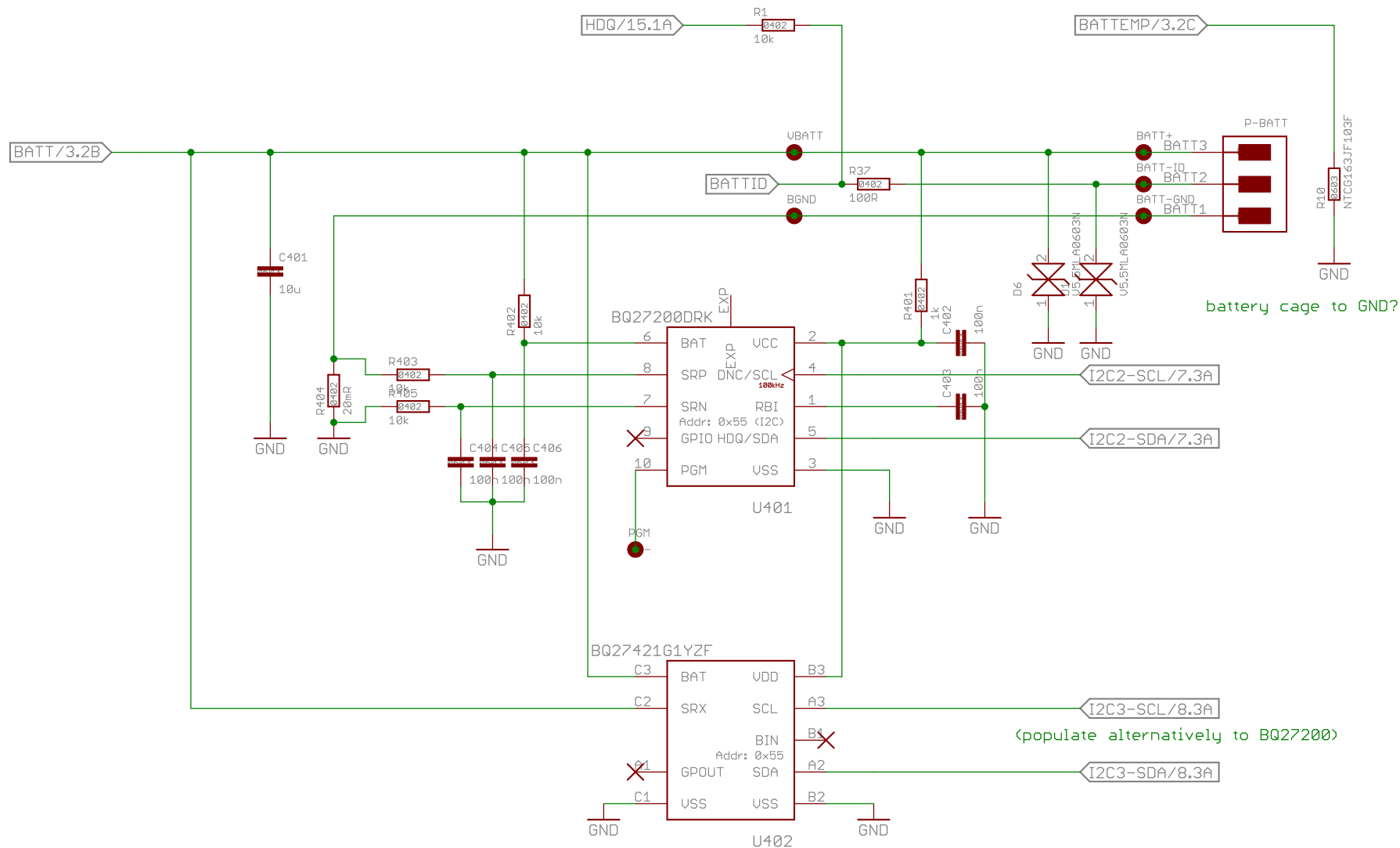
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bq27421? bq27441? bq27621? bq27200?

Fuel Gauge

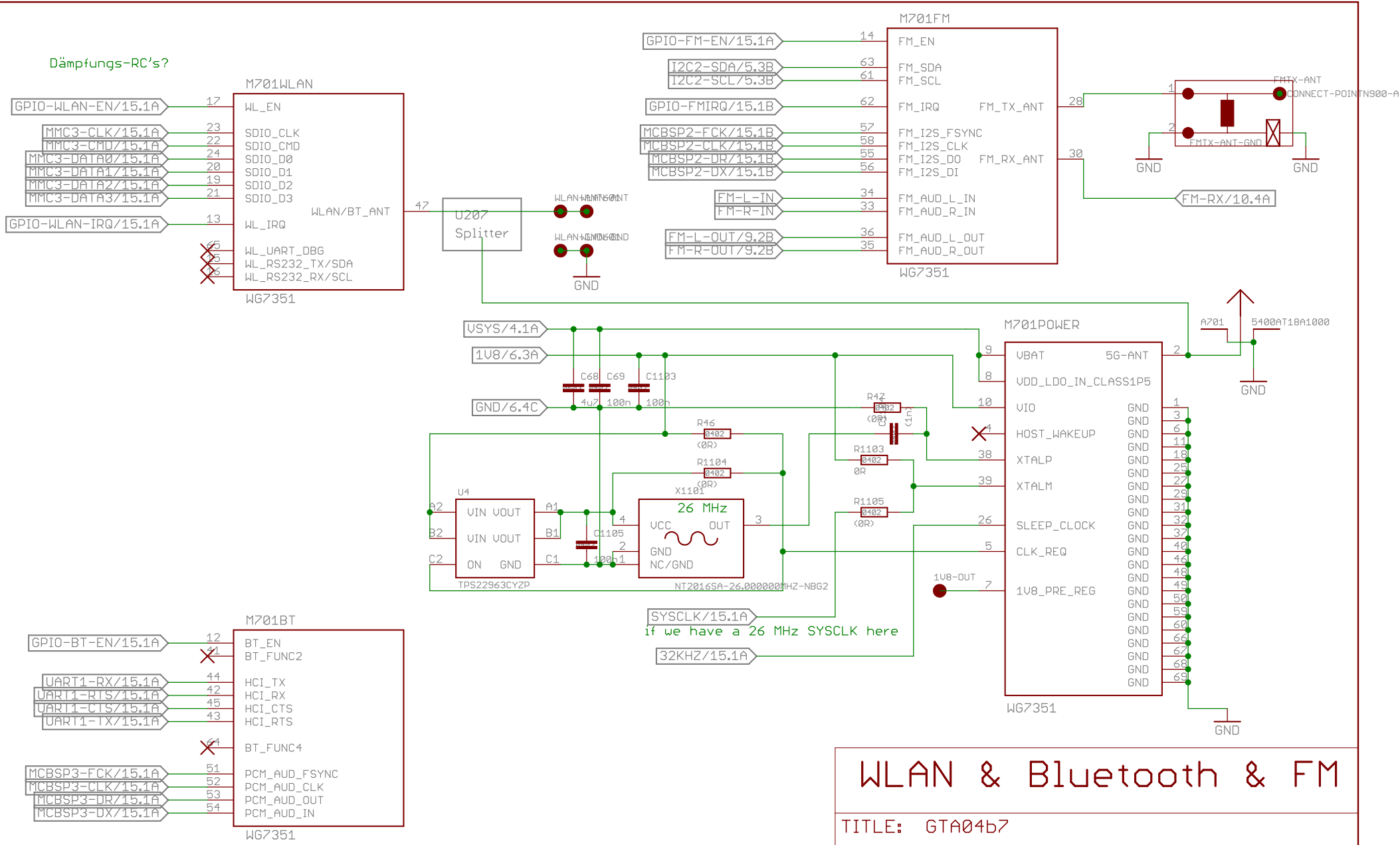
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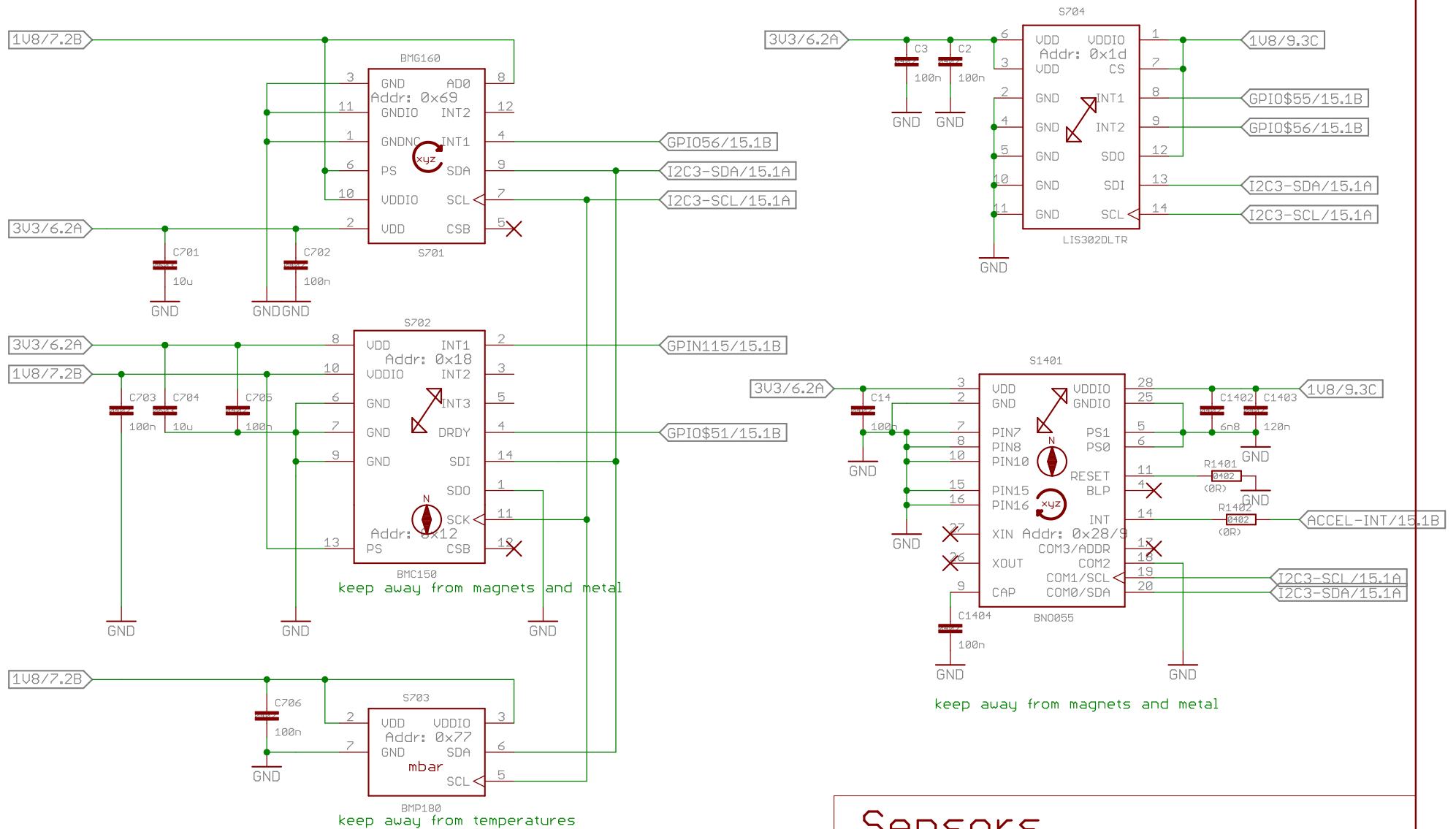
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Sensors

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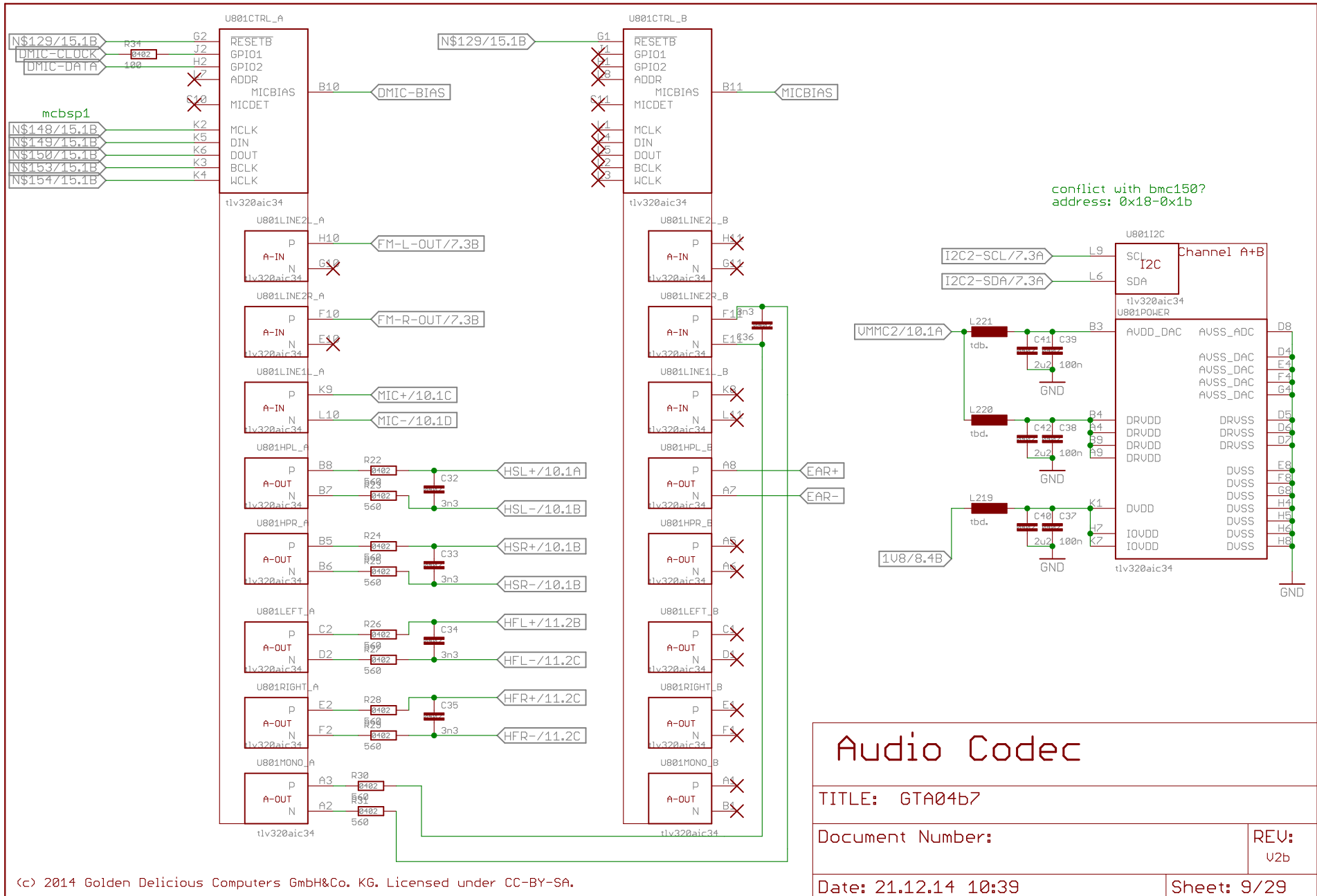
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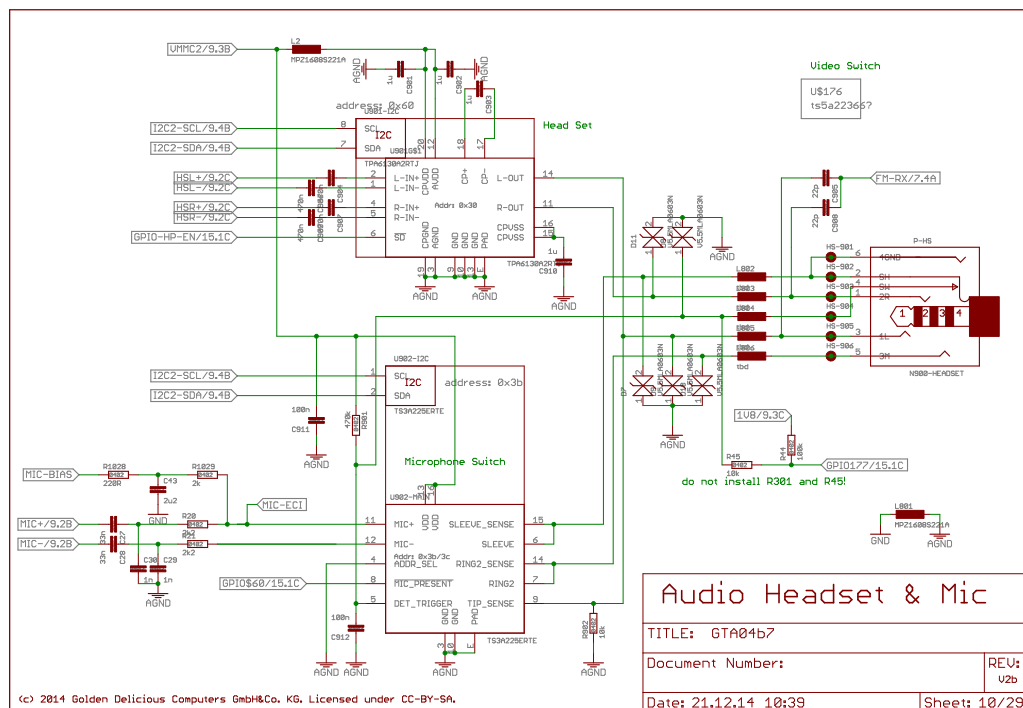
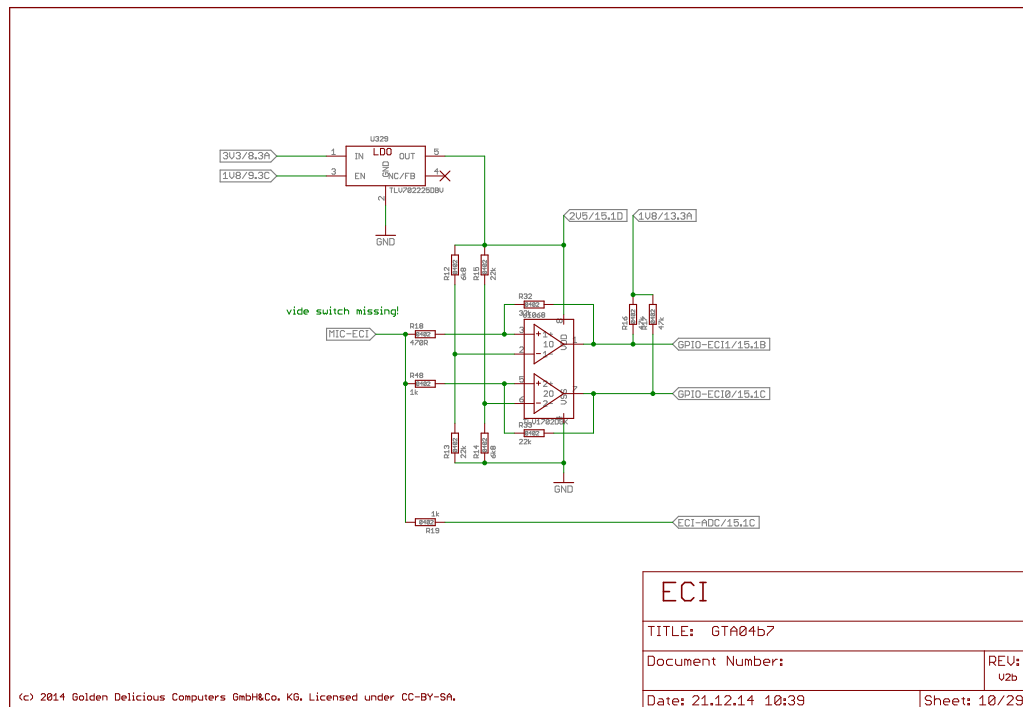
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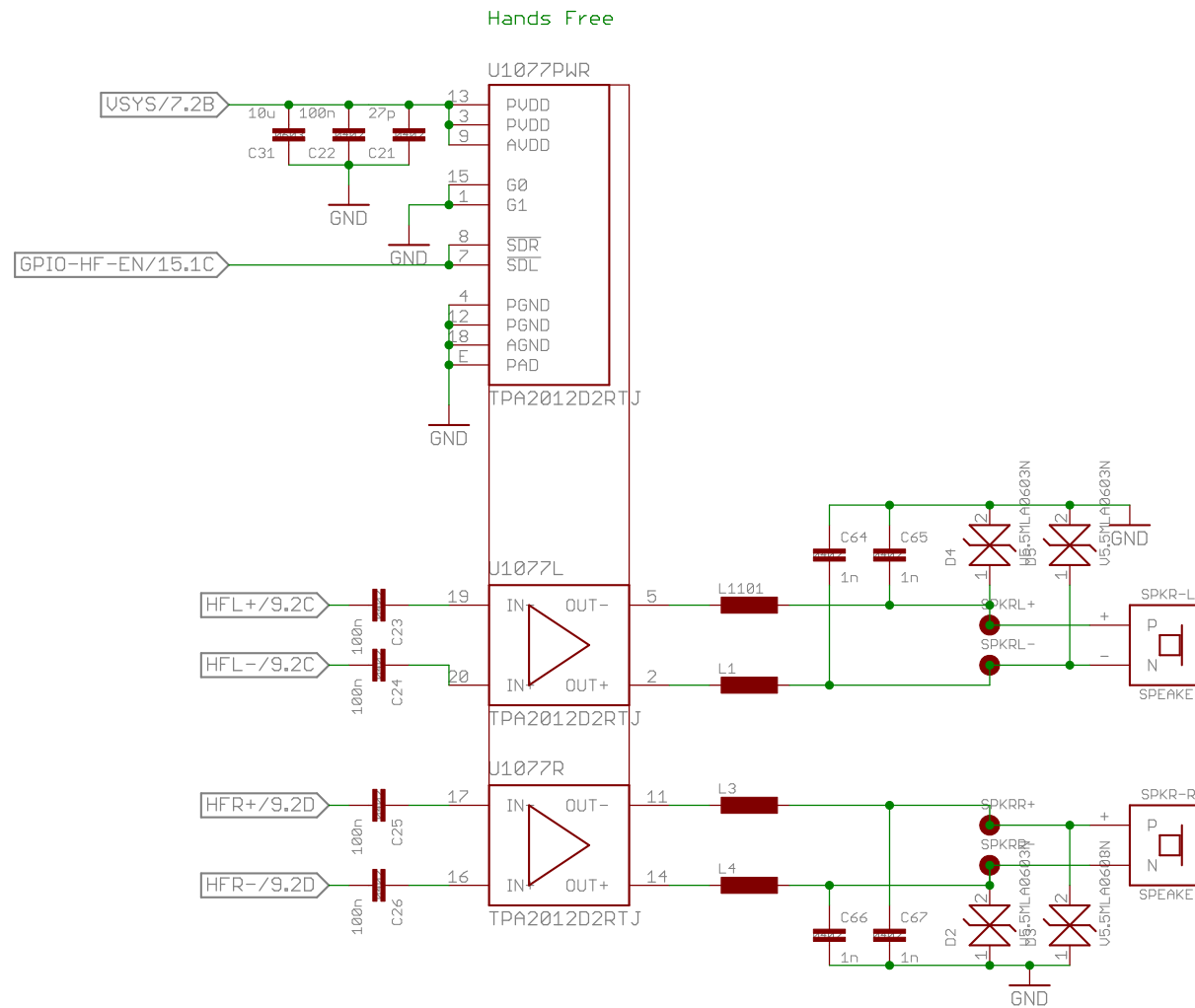
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problem: this is a 0.5mm BGA making lower board expensive!
but it appears to be not extremely critical (only 3 rows and inner ring is GND)
problem: analog mic is on upper board!
alternative: place on upper board (to be evaluated)







Audio Handsfree

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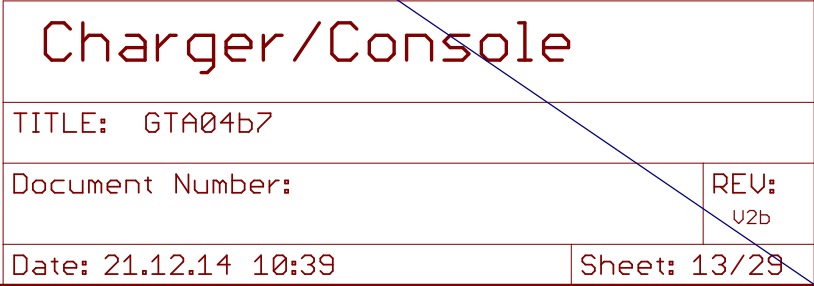
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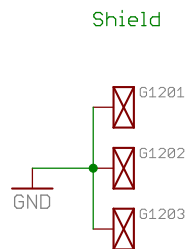
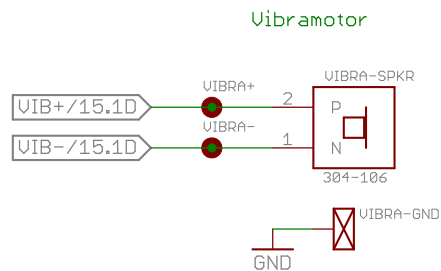
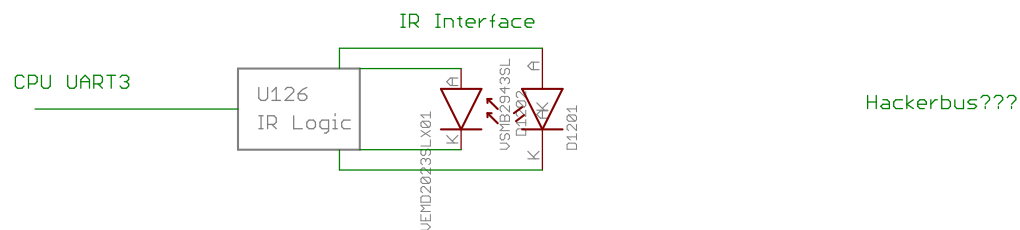
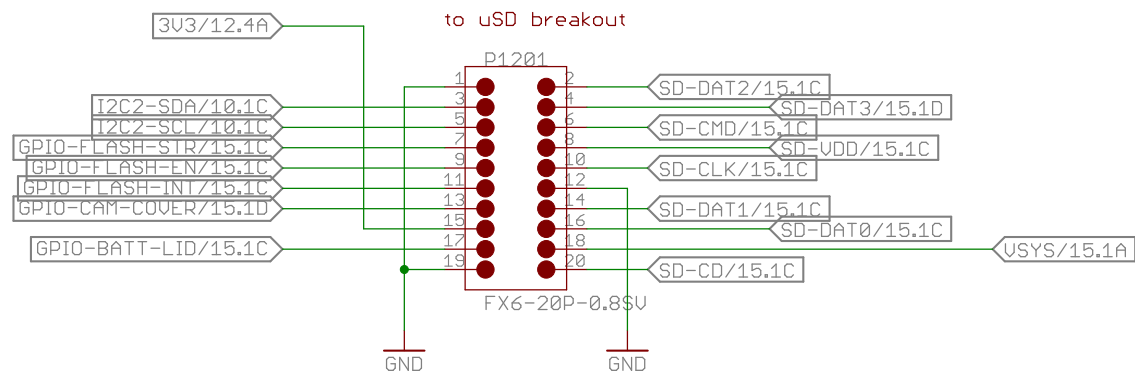
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Misc (lower)

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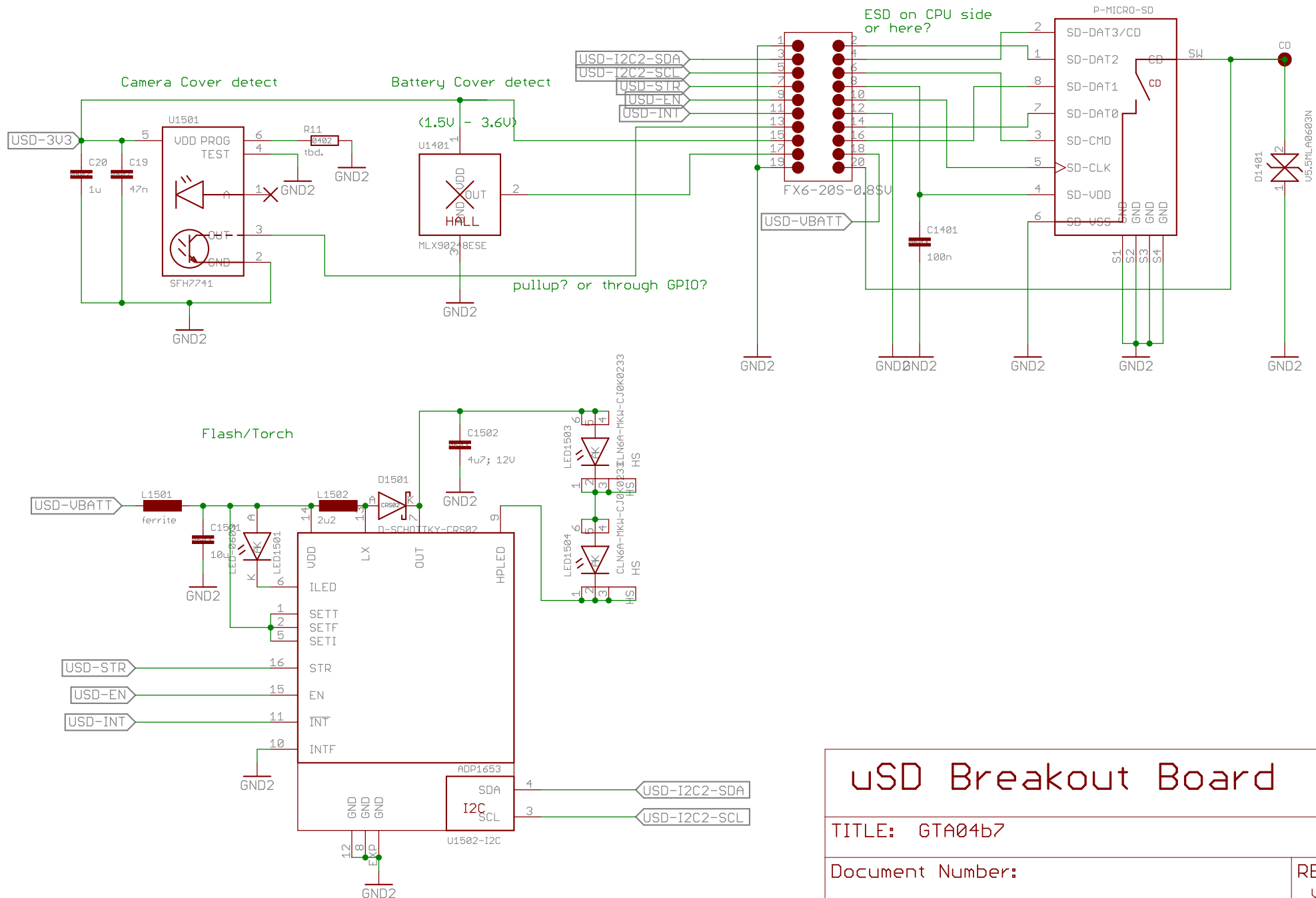
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uSD Breakout Board

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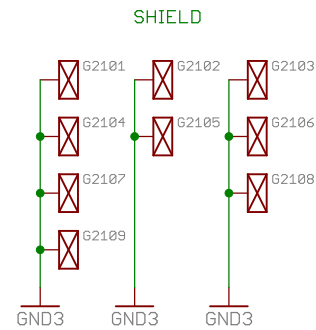
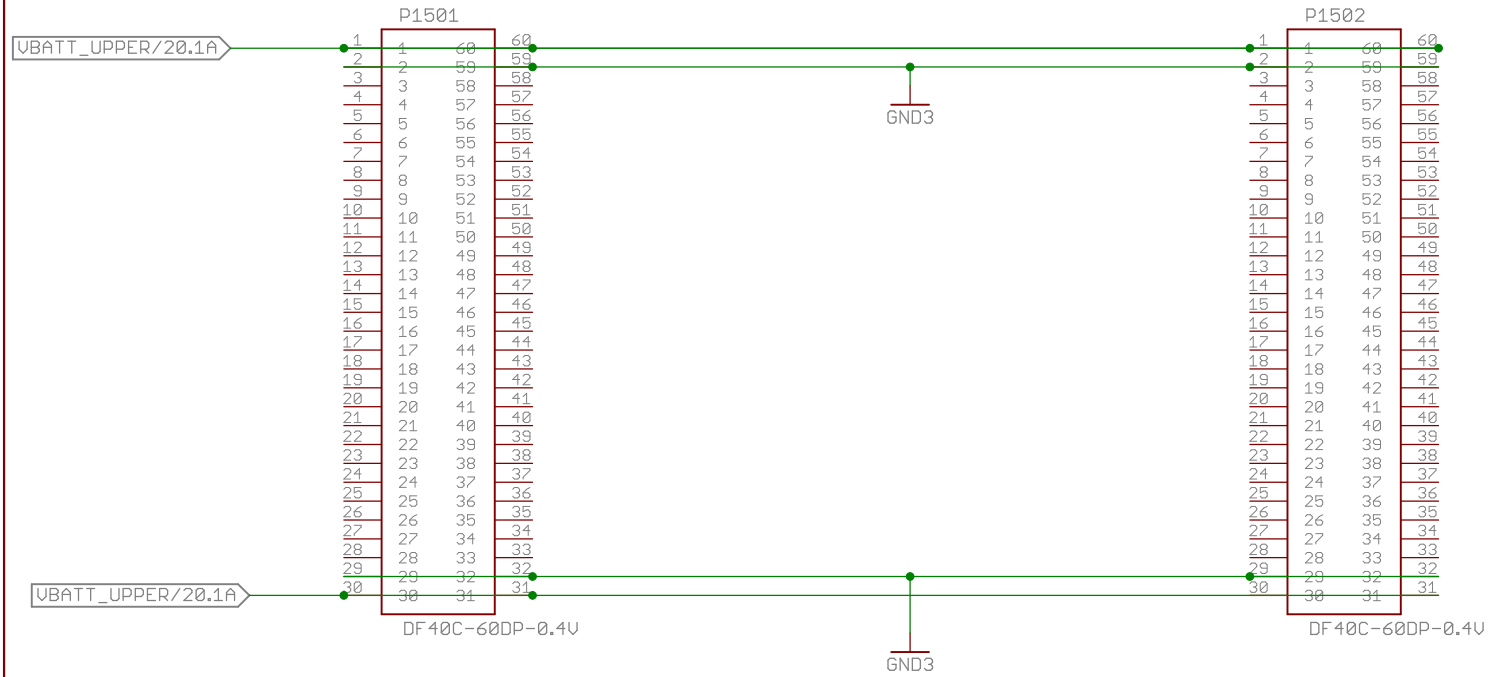
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to be adjusted to lower board connector



B2B to lower board

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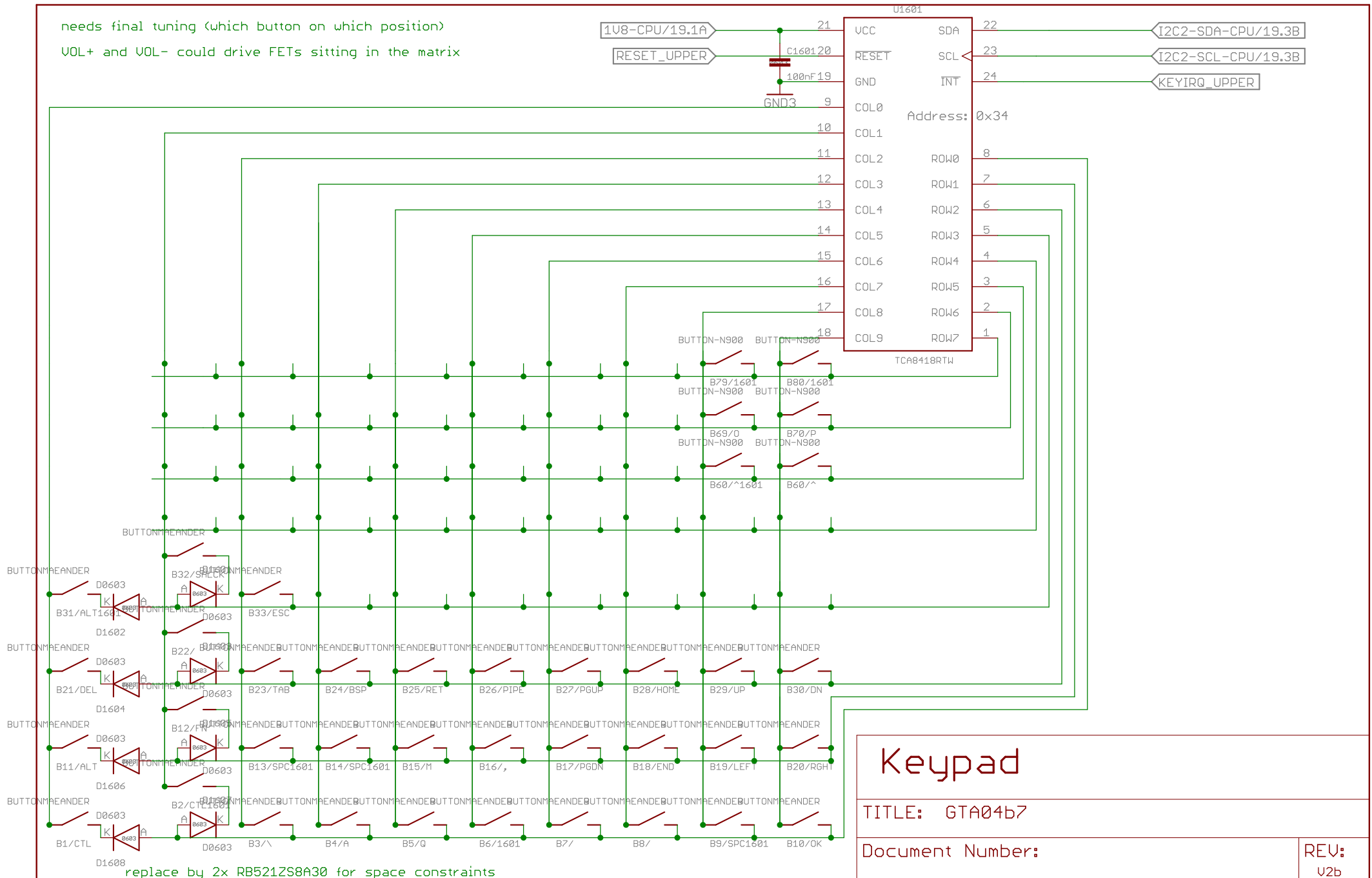
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needs final tuning (which button on which position)

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



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Keypad

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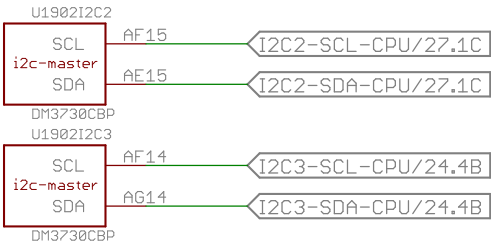
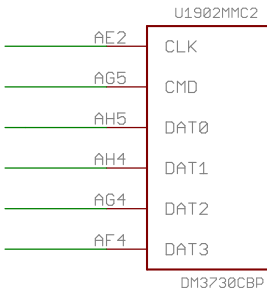
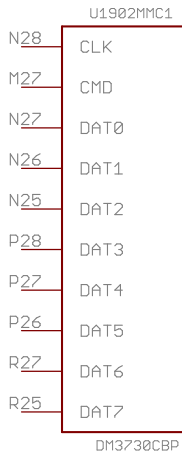
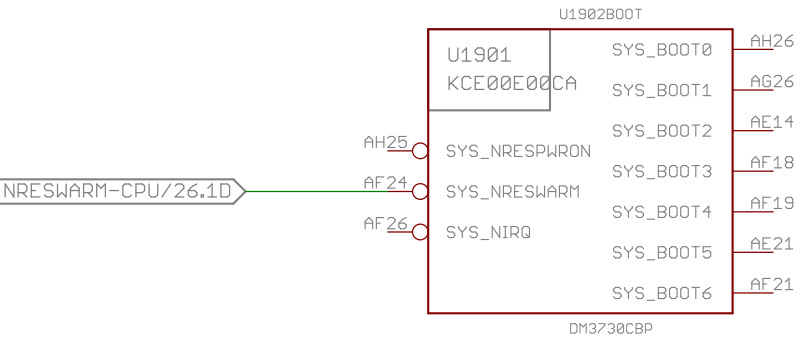
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CPU + PoP RAM/NAND

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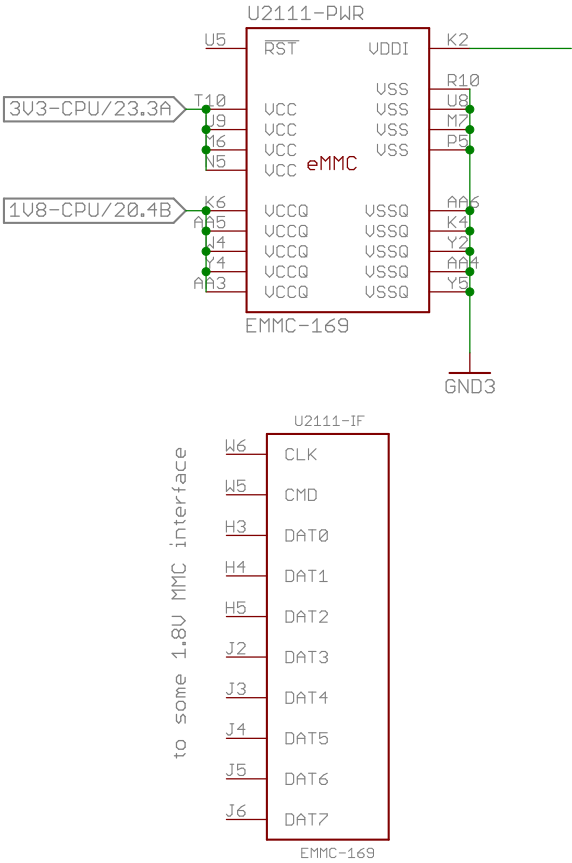
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eMMC

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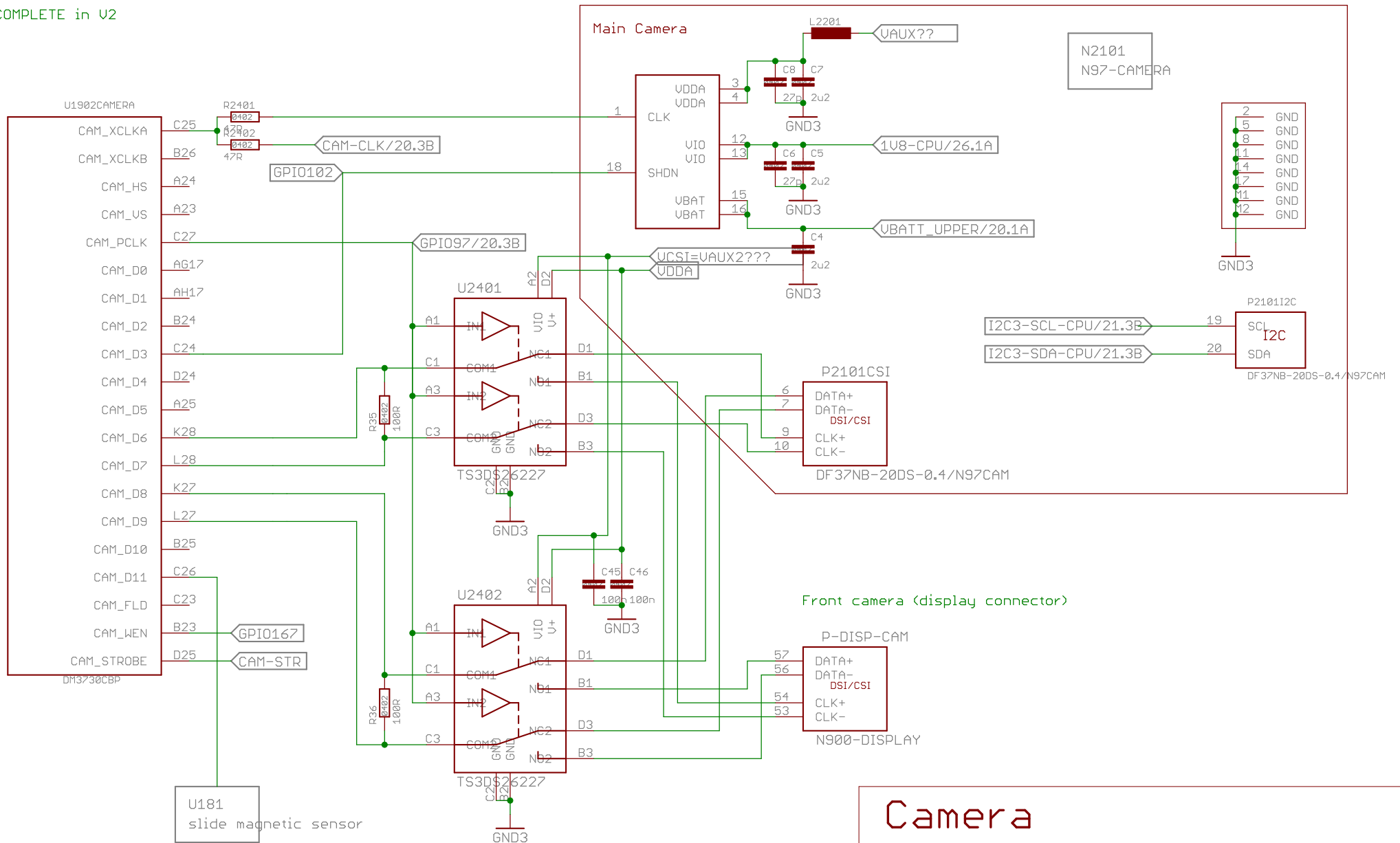
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Camera

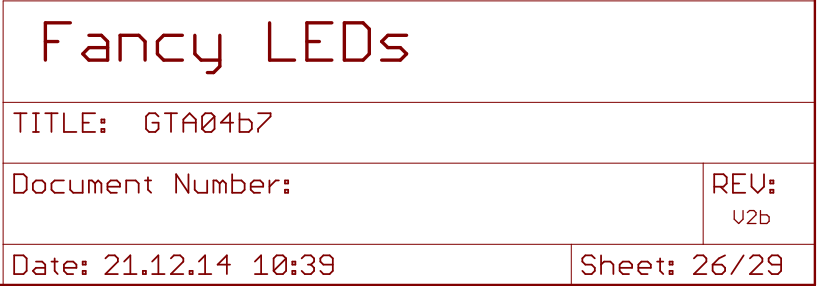
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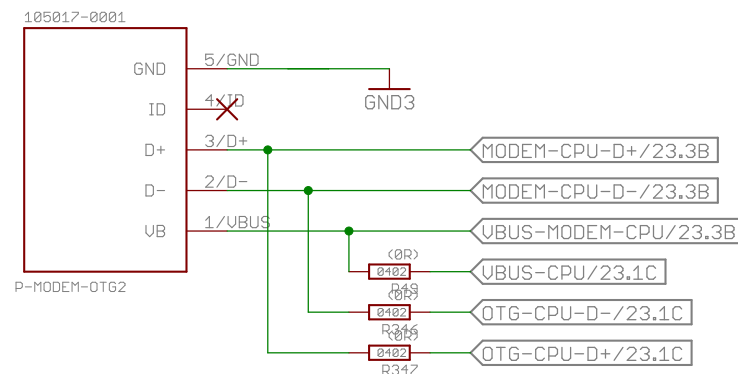
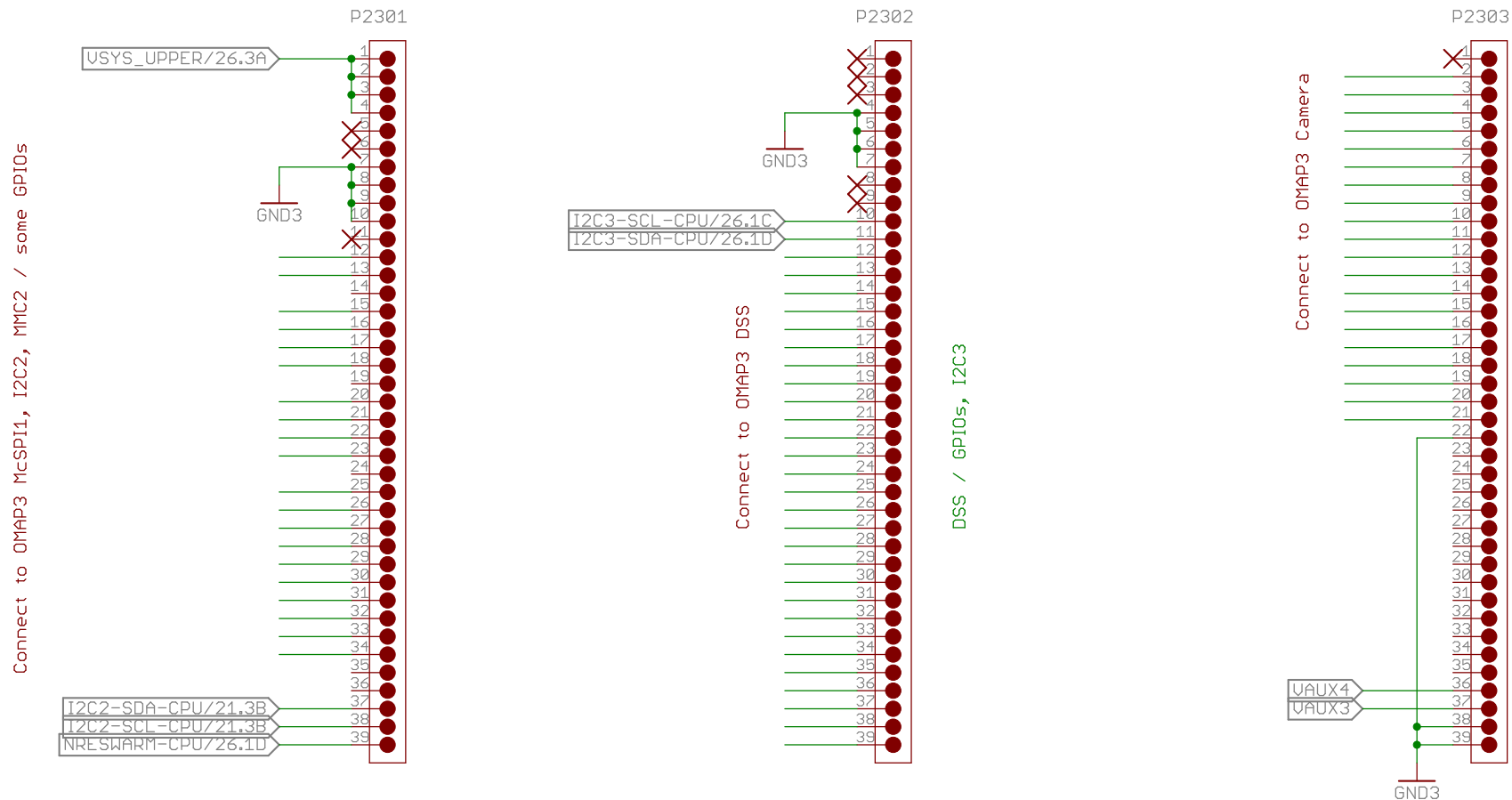
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These connectors allow to "emulate" the DM3730 by connecting a BB-XM

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prototype only

connect to respective CPU-pads



Connector to BB

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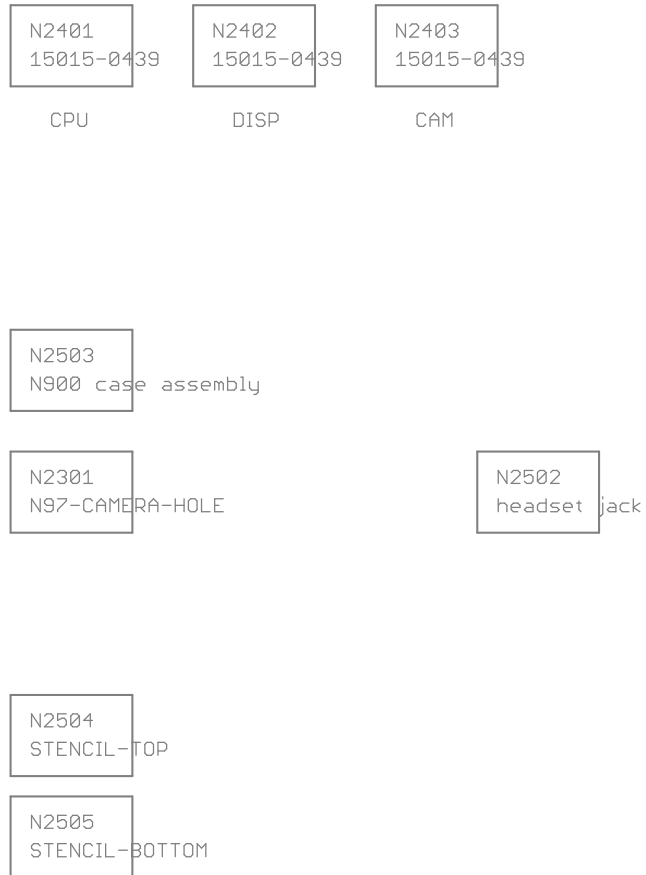
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Molex Jumper cables to connect BB-XM-Adapter to Uppwer board



No-Solder Components

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