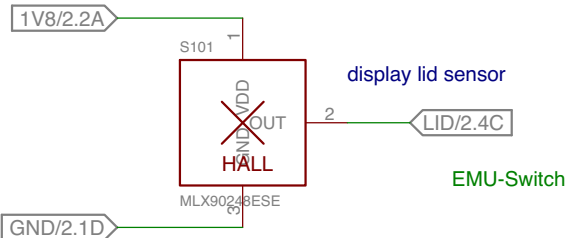
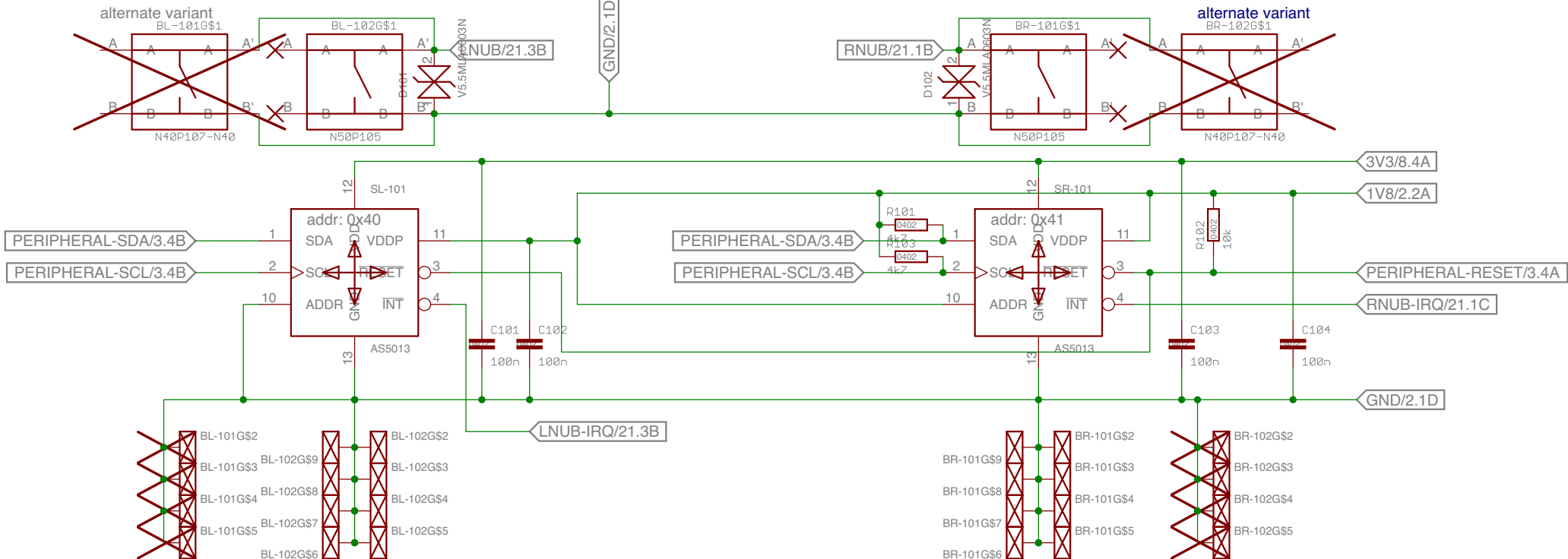
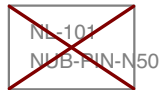


LEFT Nub



Nubs

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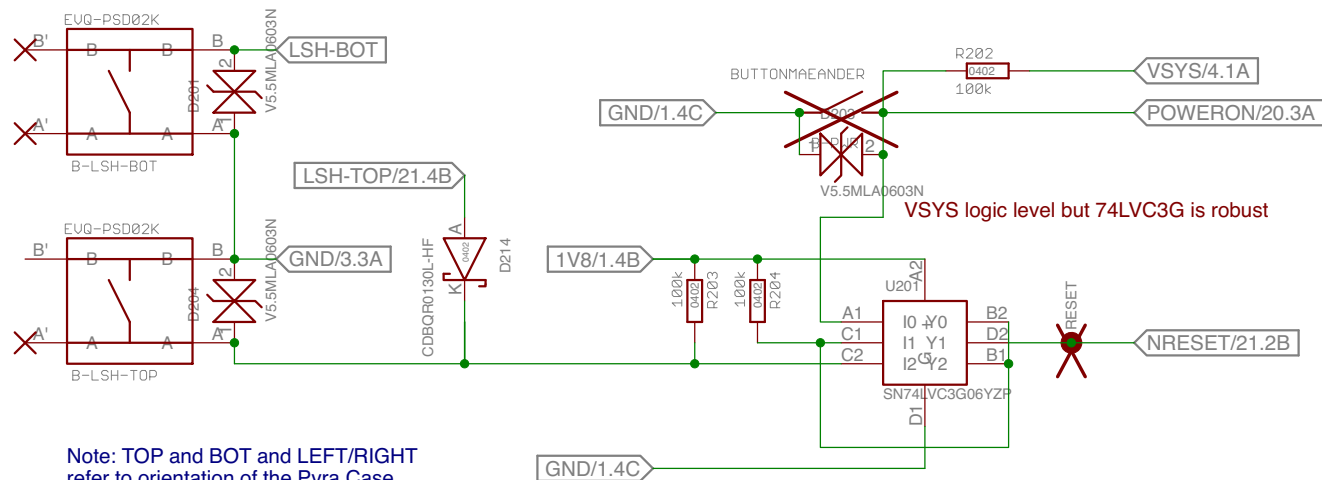
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shoulder buttons

Reset and Power-On

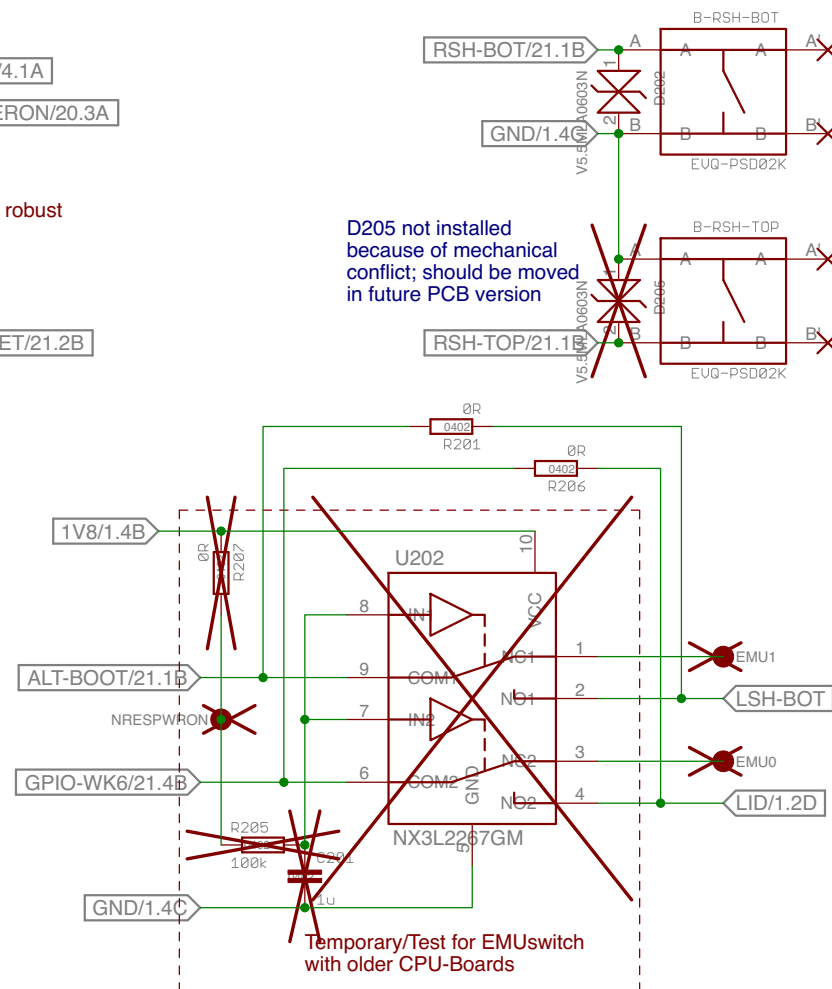
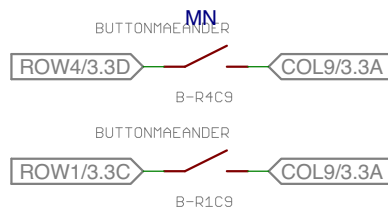
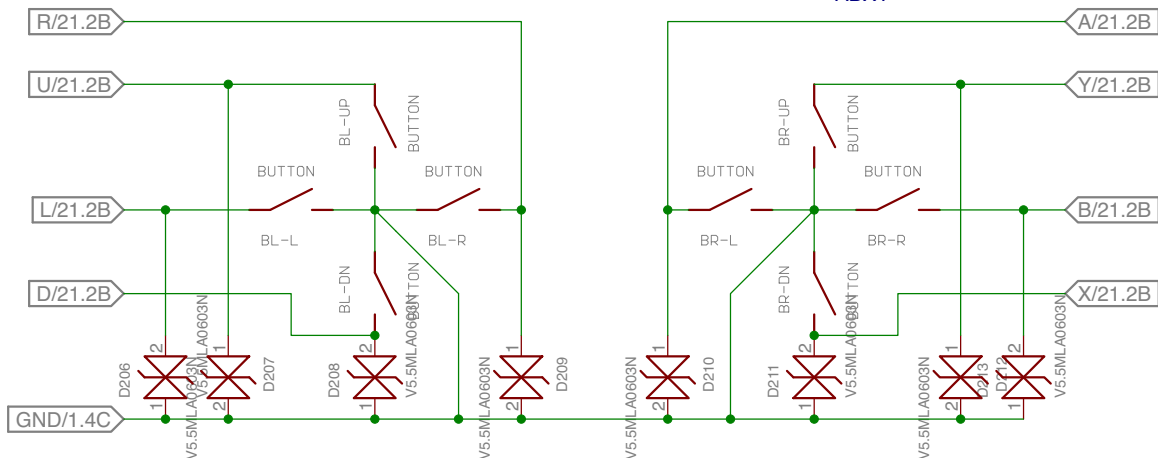


Note: TOP and BOT and LEFT/RIGHT refer to orientation of the Pyra Case as it is usually hold in the hand. The PCB is designed upside down and therefore these coordinates are swapped on the PCB.

simultaneously press top left shoulder button and power-on button to reset/reboot the CPU

UDLR

ABXY



Buttons

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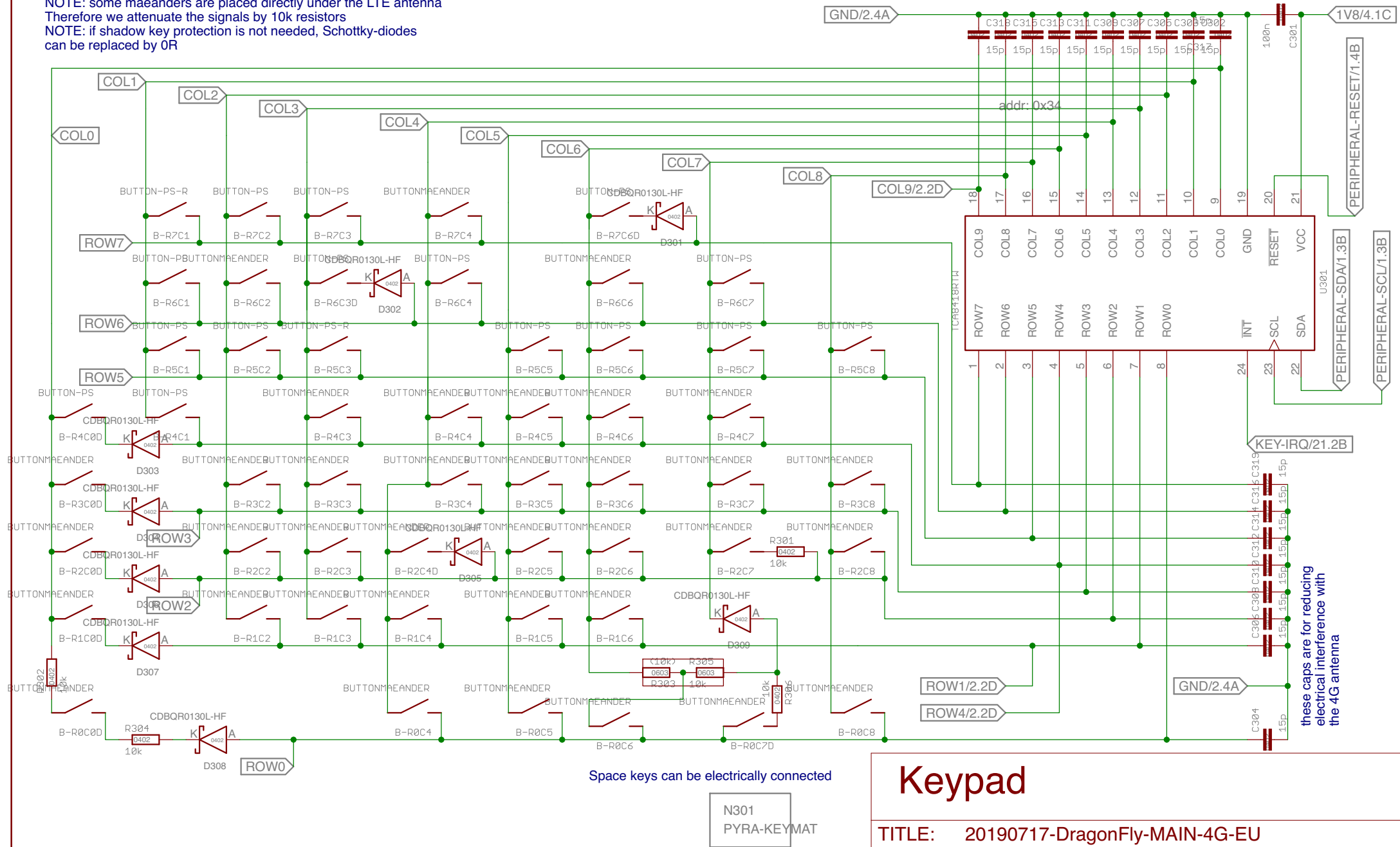
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NOTE: some maeanders are placed directly under the LTE antenna
Therefore we attenuate the signals by 10k resistors
NOTE: if shadow key protection is not needed, Schottky-diodes
can be replaced by 0R



Keypad

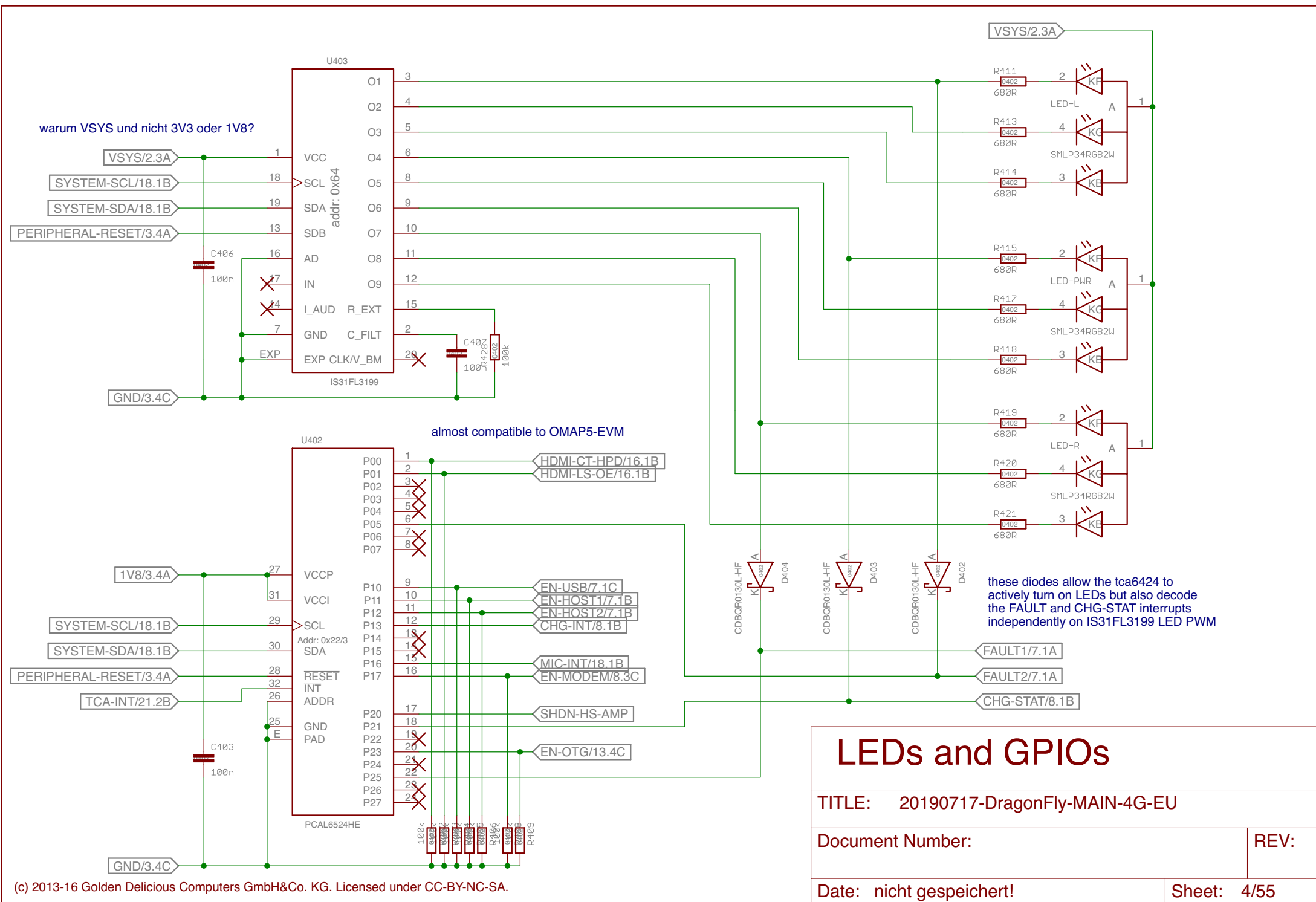
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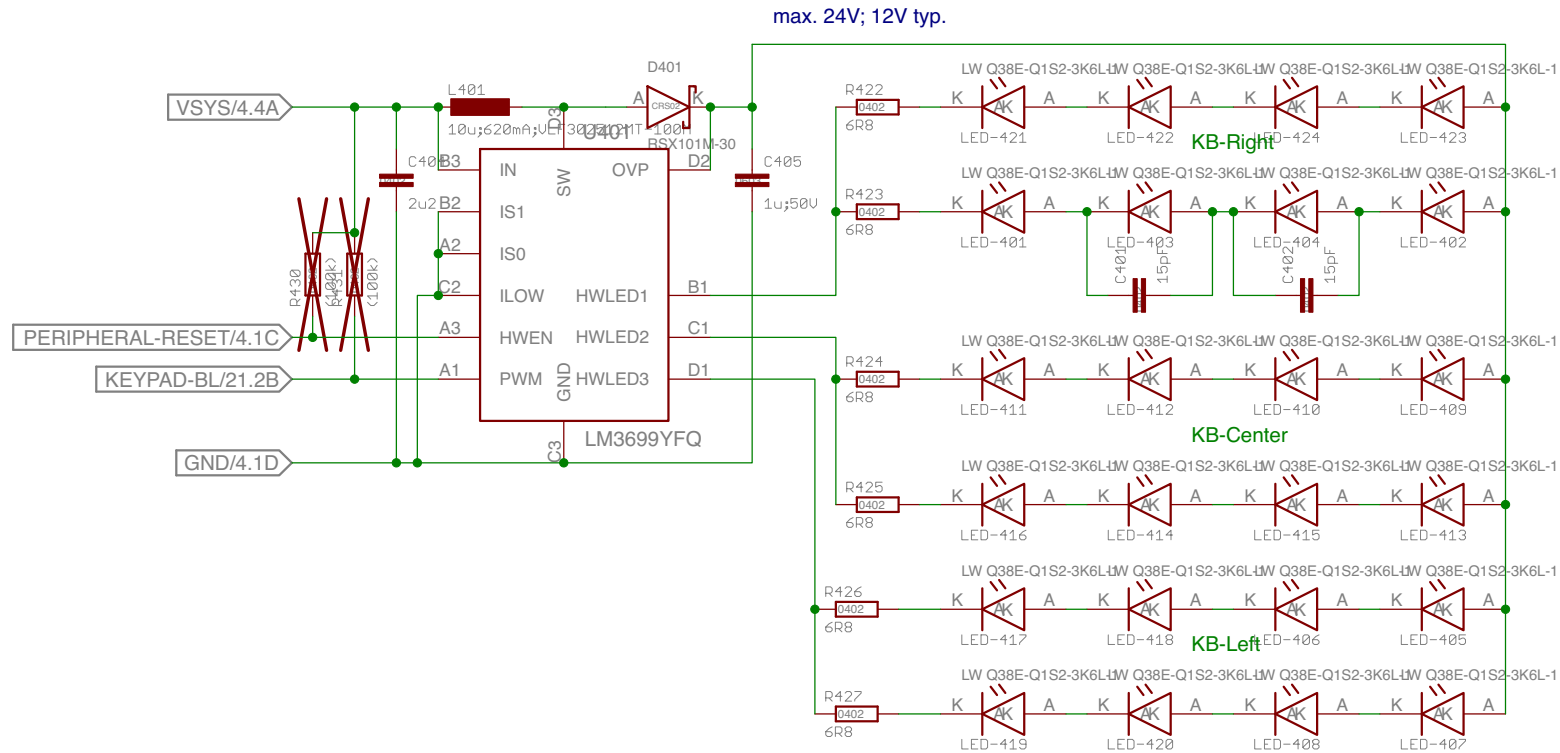
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Keyboard Backlight

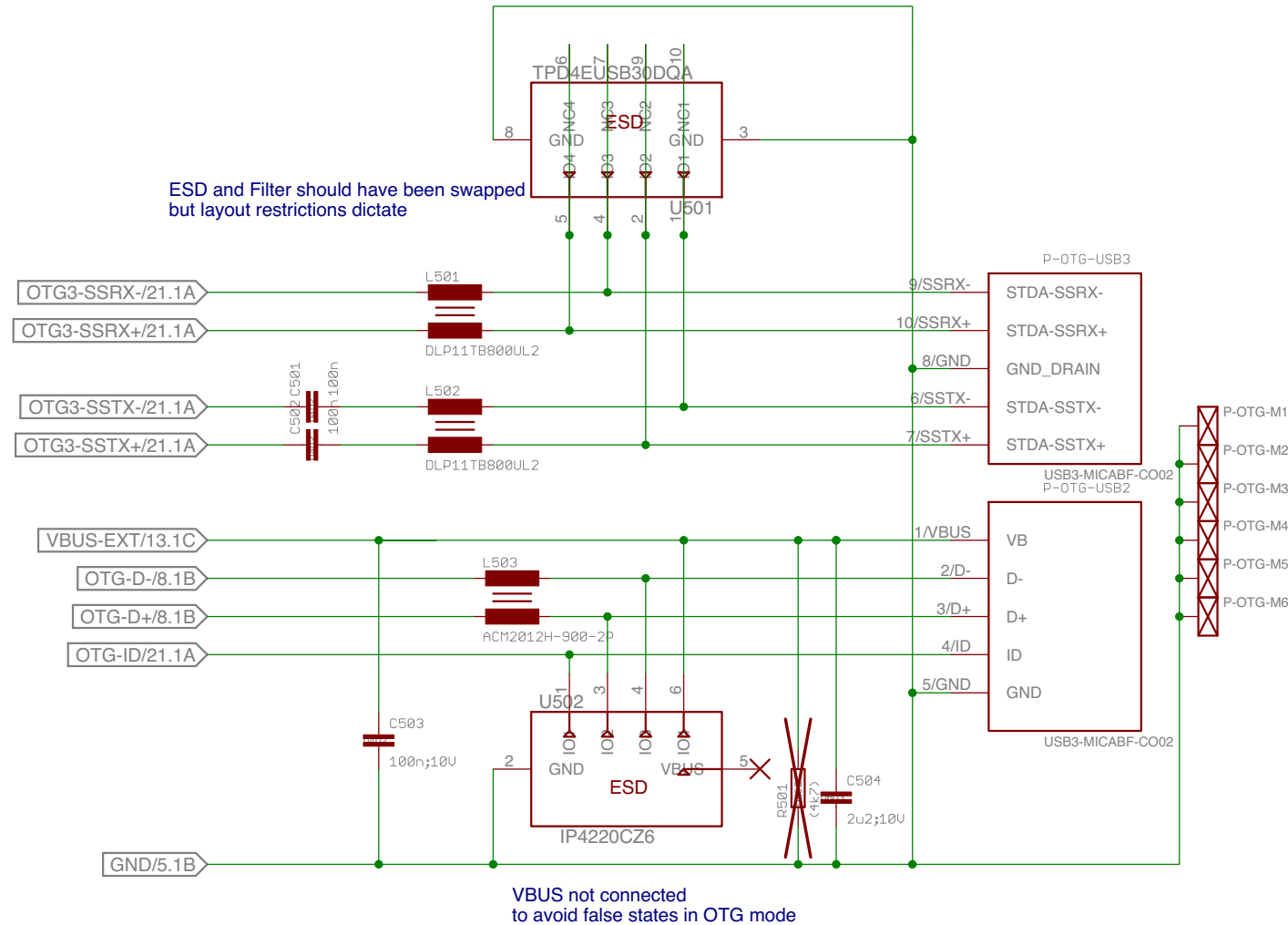
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USB-3.0 OTG

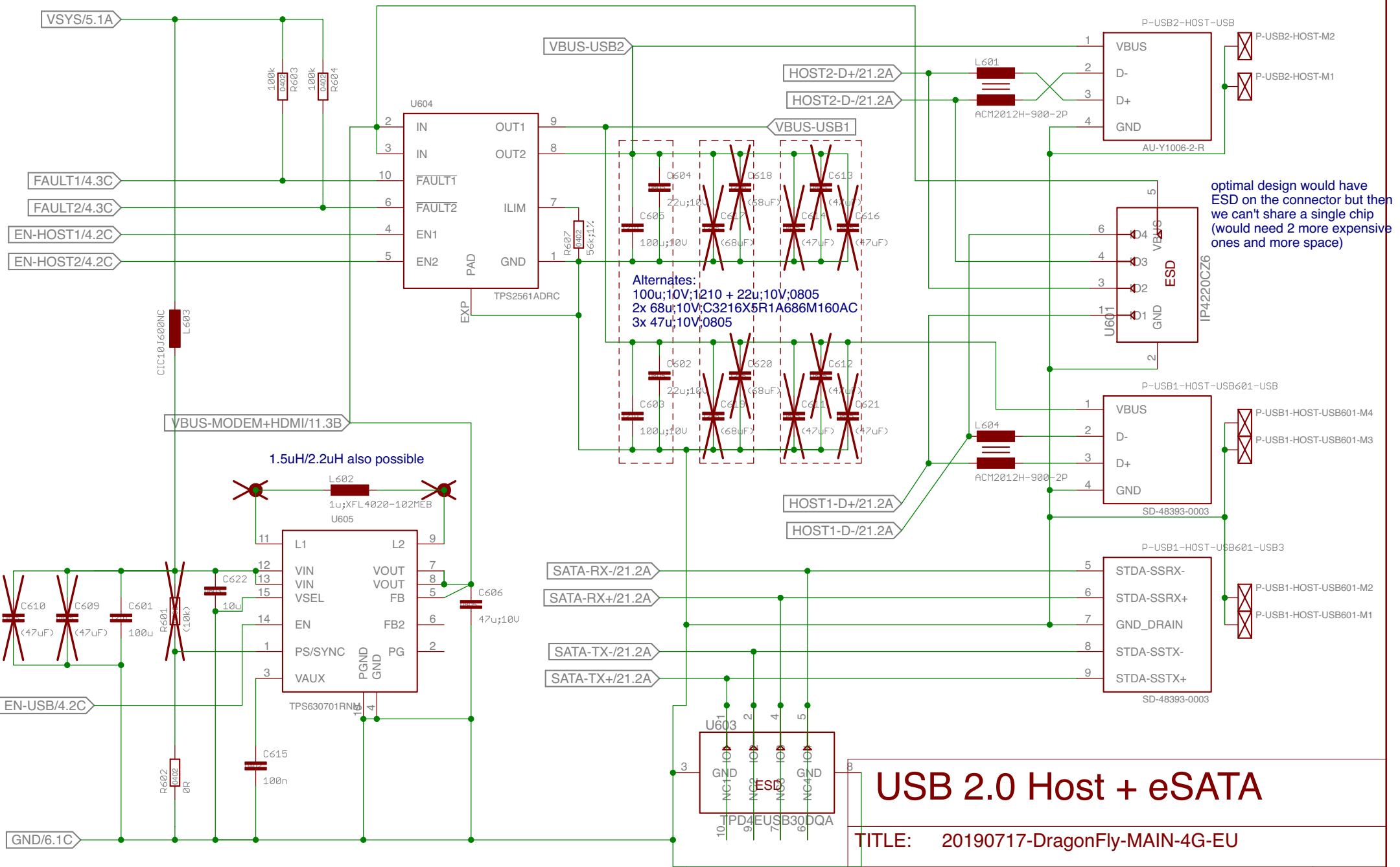
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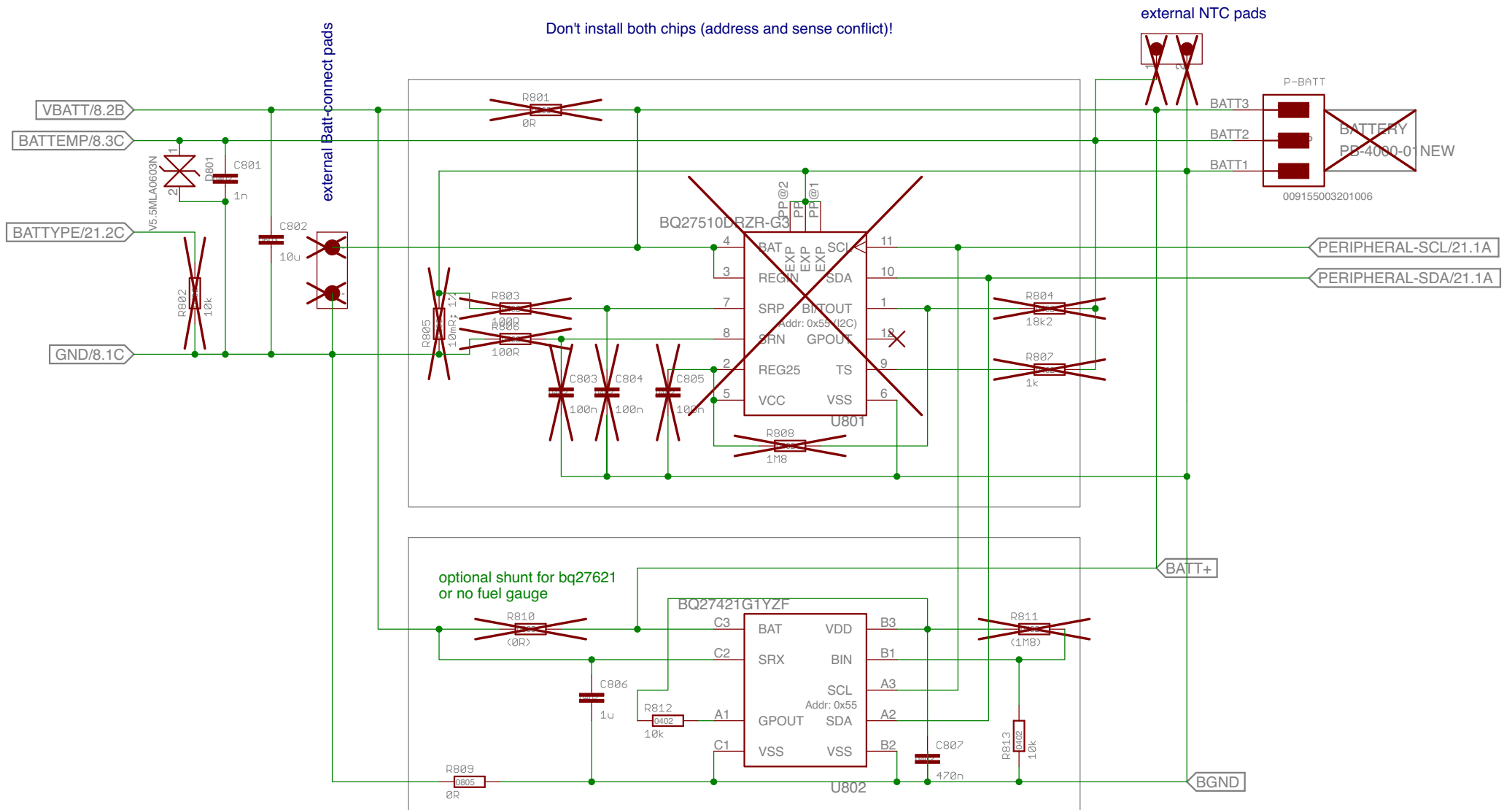
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optimal design would have ESD on the connector but then we can't share a single chip (would need 2 more expensive ones and more space)



Battery Fuel Gauge

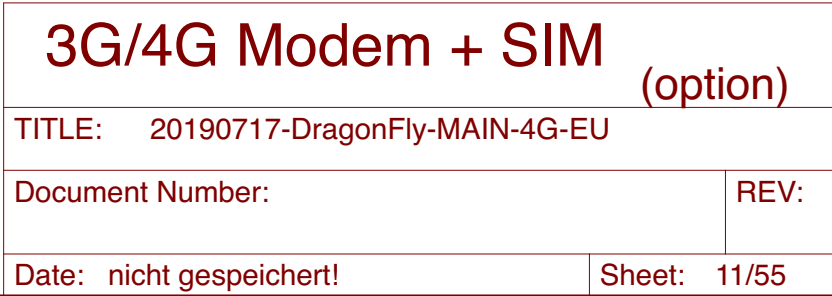
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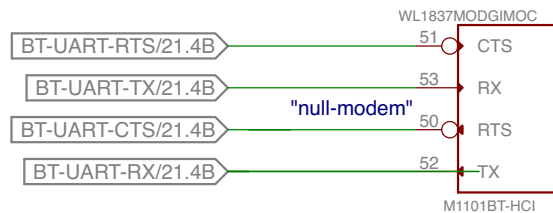
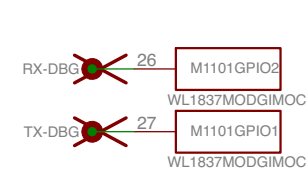
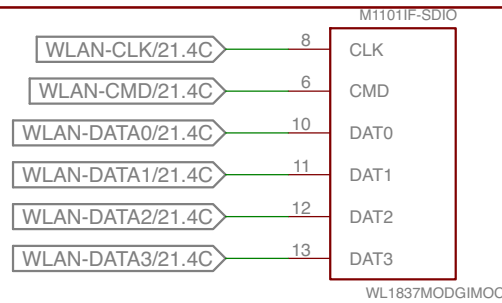
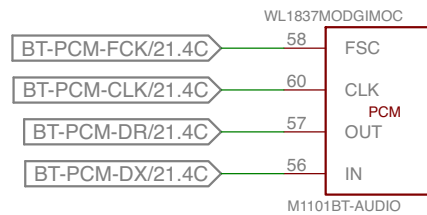
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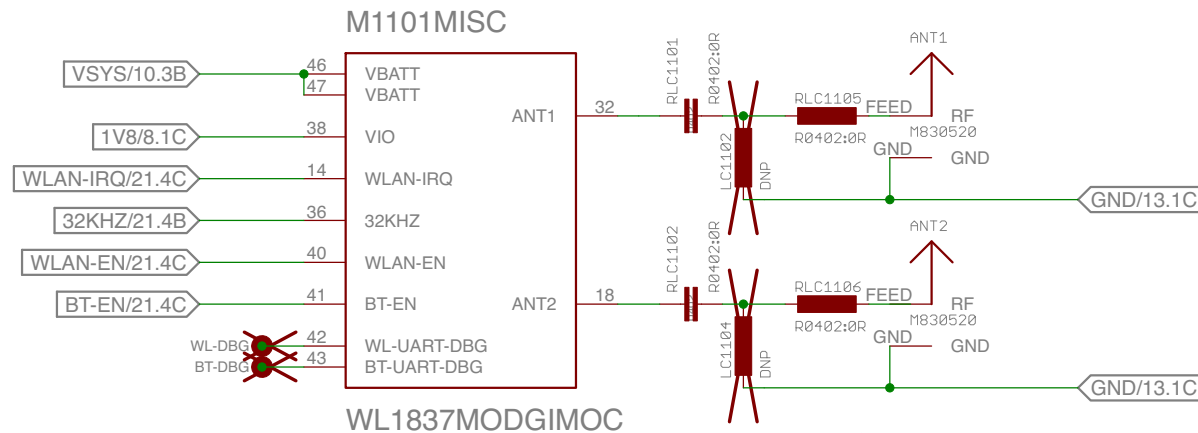
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Future version should have a 4 channel switch for the MODEM lines of M1001



Antenna2 and filter depends on module:
WL1831: Antenna1 only
WL1835+7: second antenna

WLAN & Bluetooth

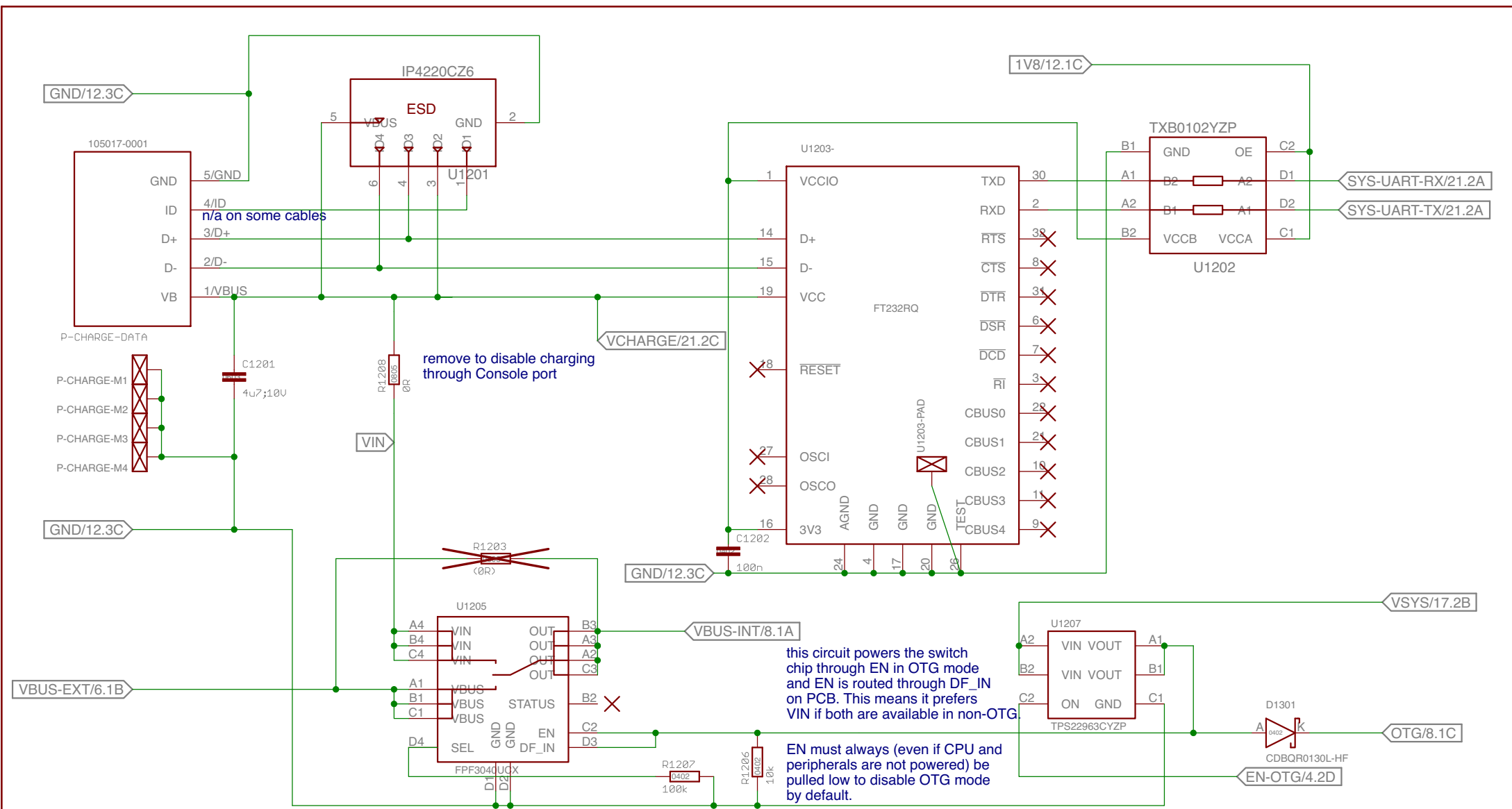
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V2b

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Charger/Console

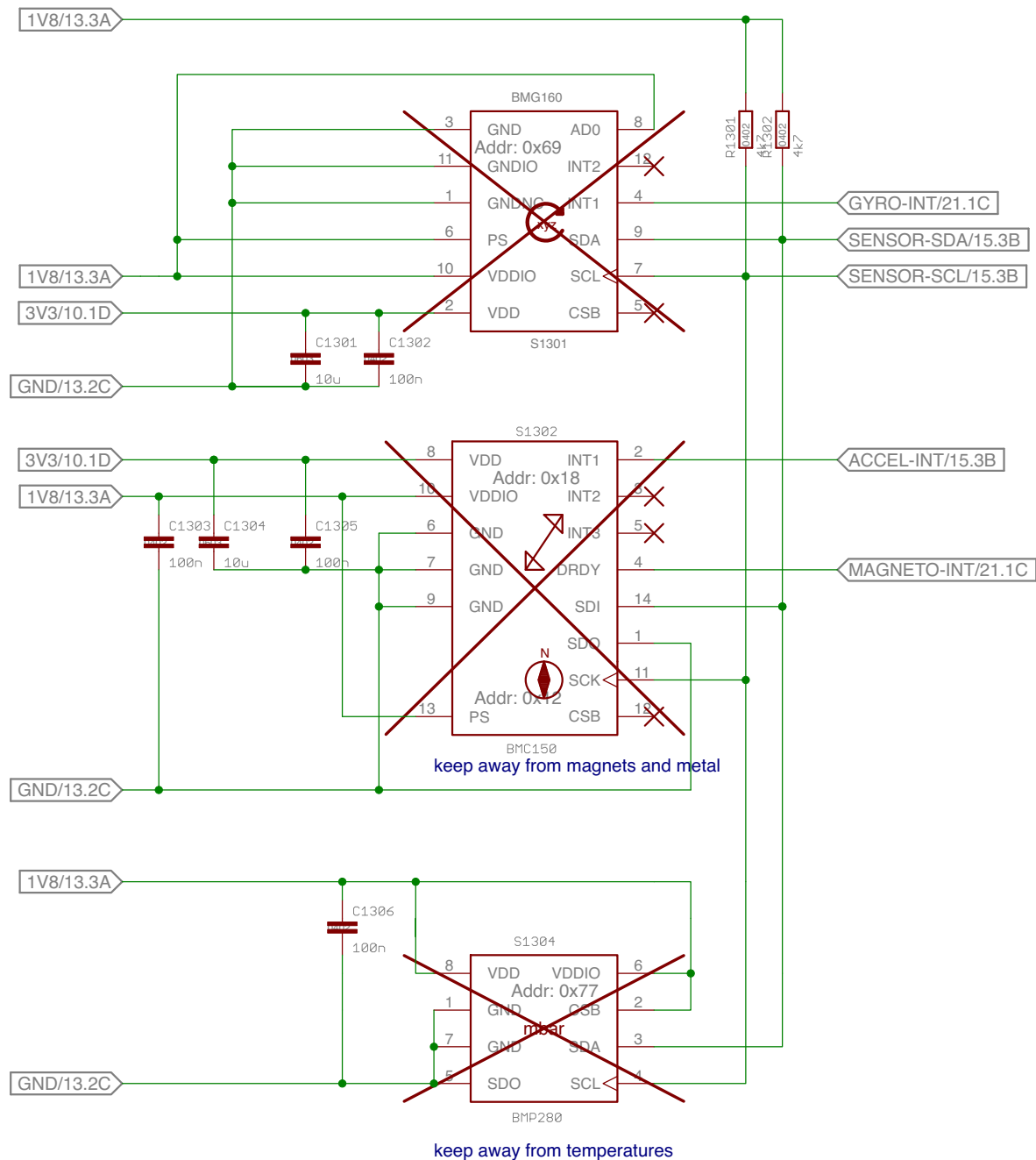
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Sensors

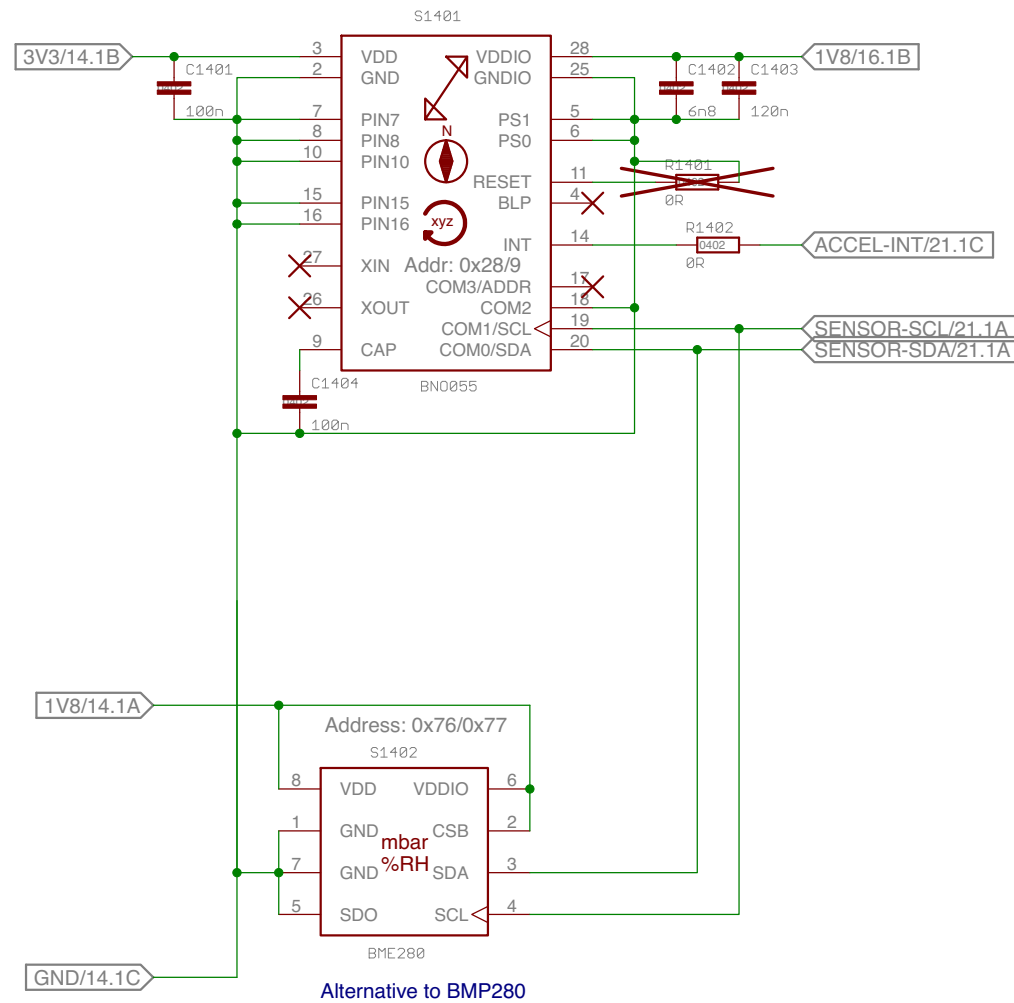
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Sensors (integrated)

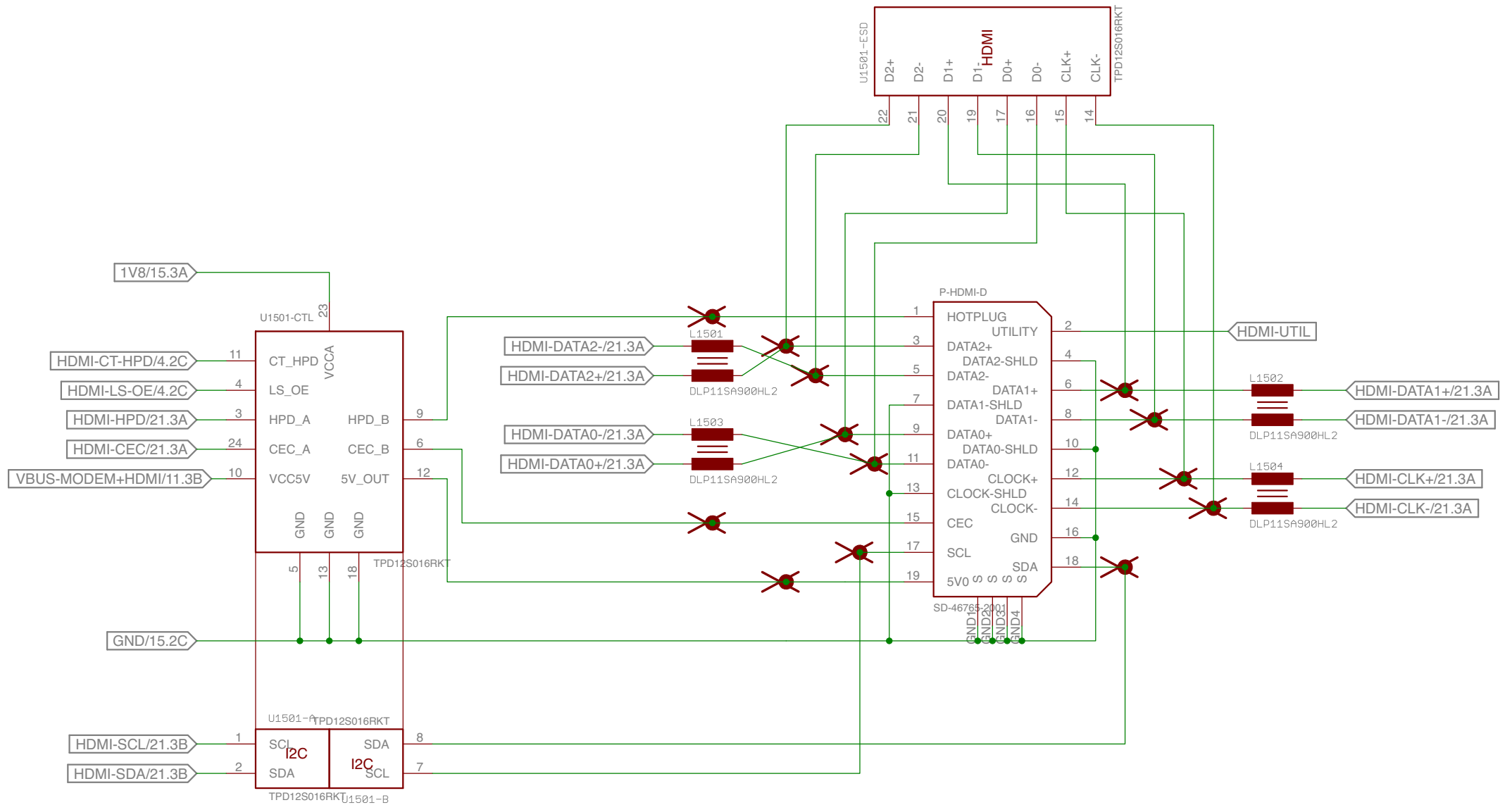
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HDMI

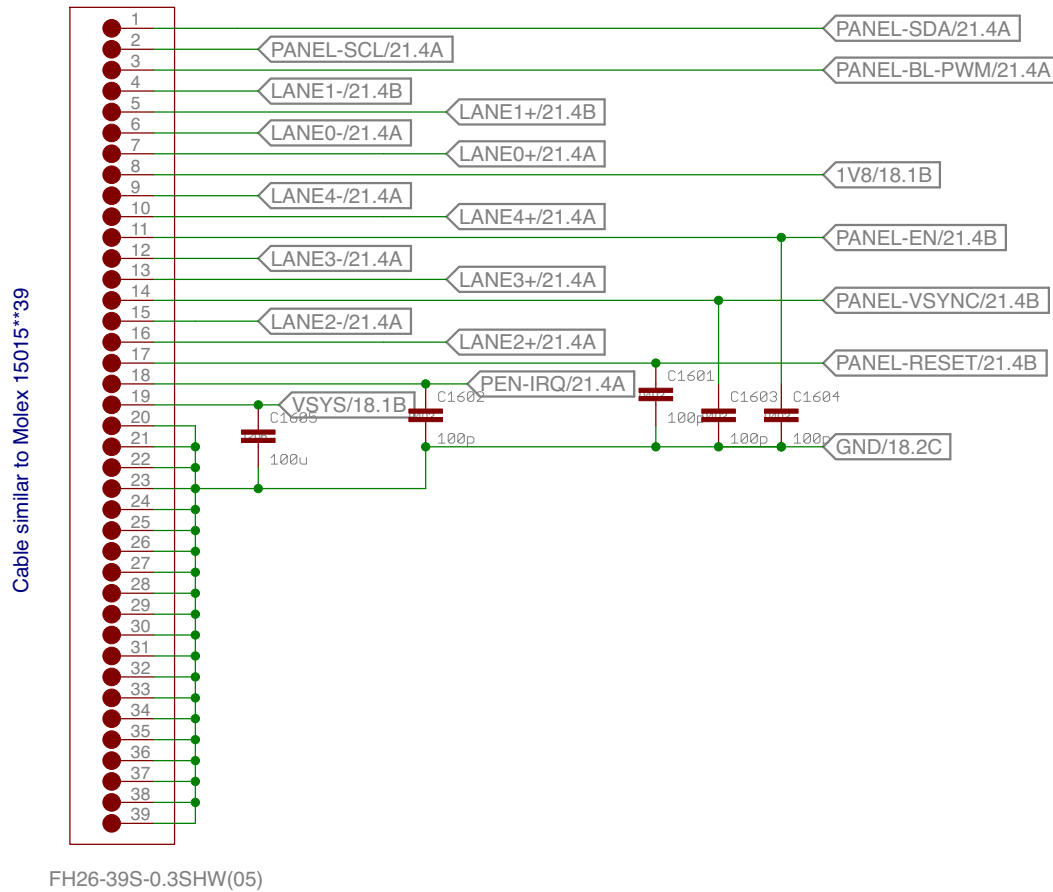
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Display Connector

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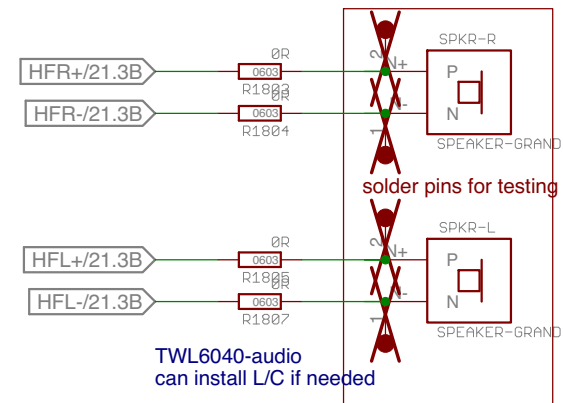
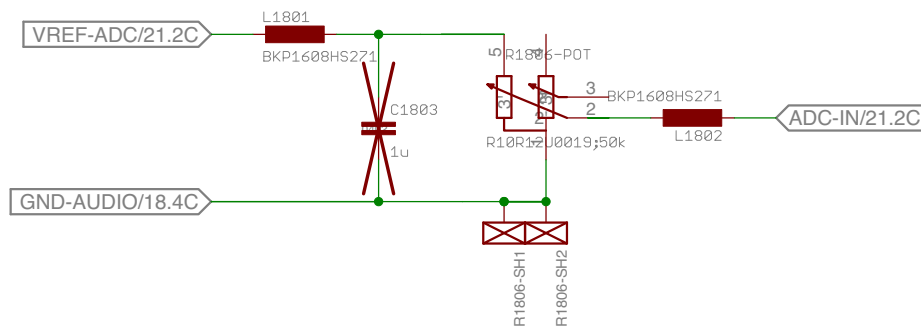
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Digital(ized) Volume Wheel



Audio Speaker

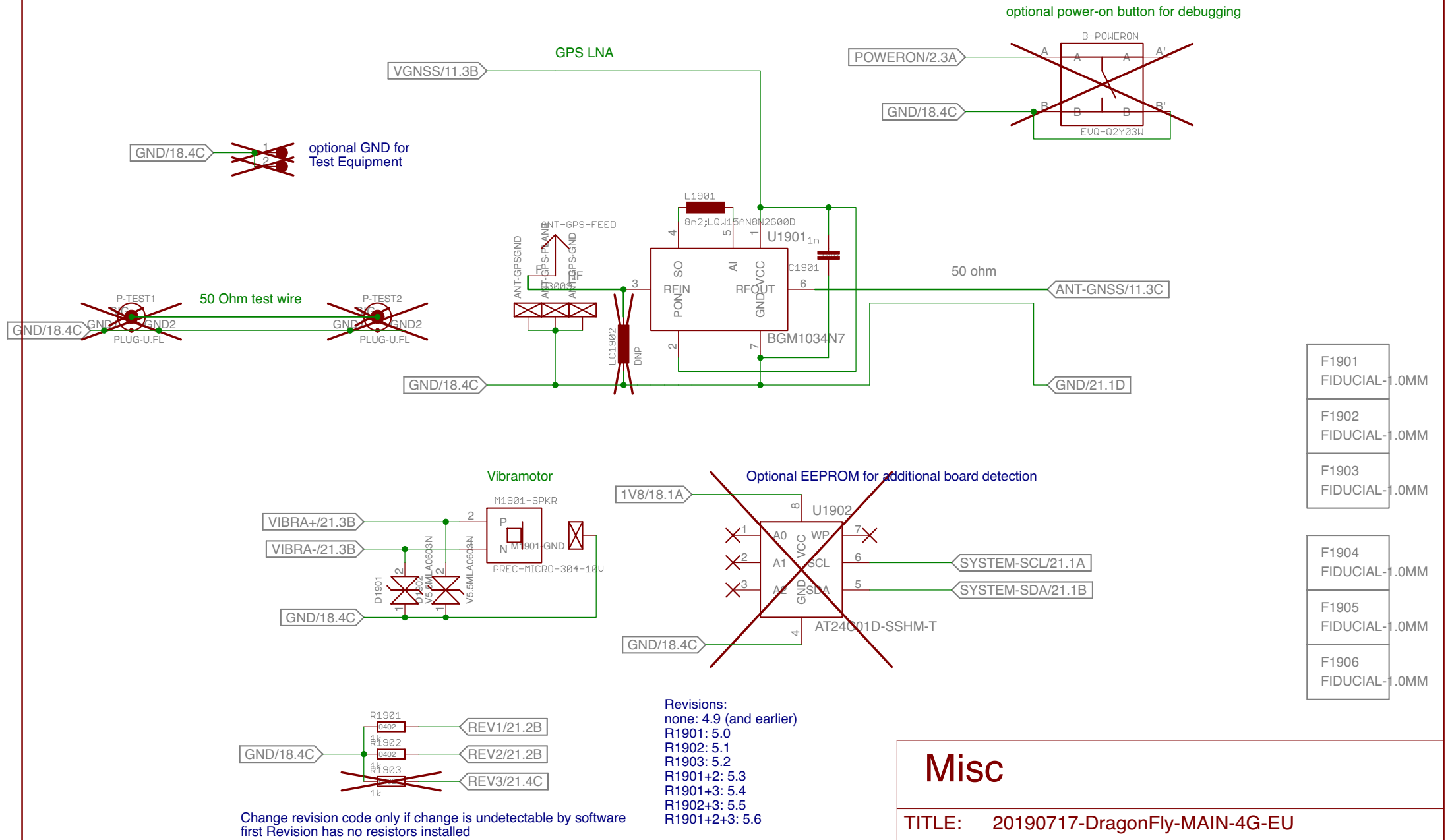
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Misc

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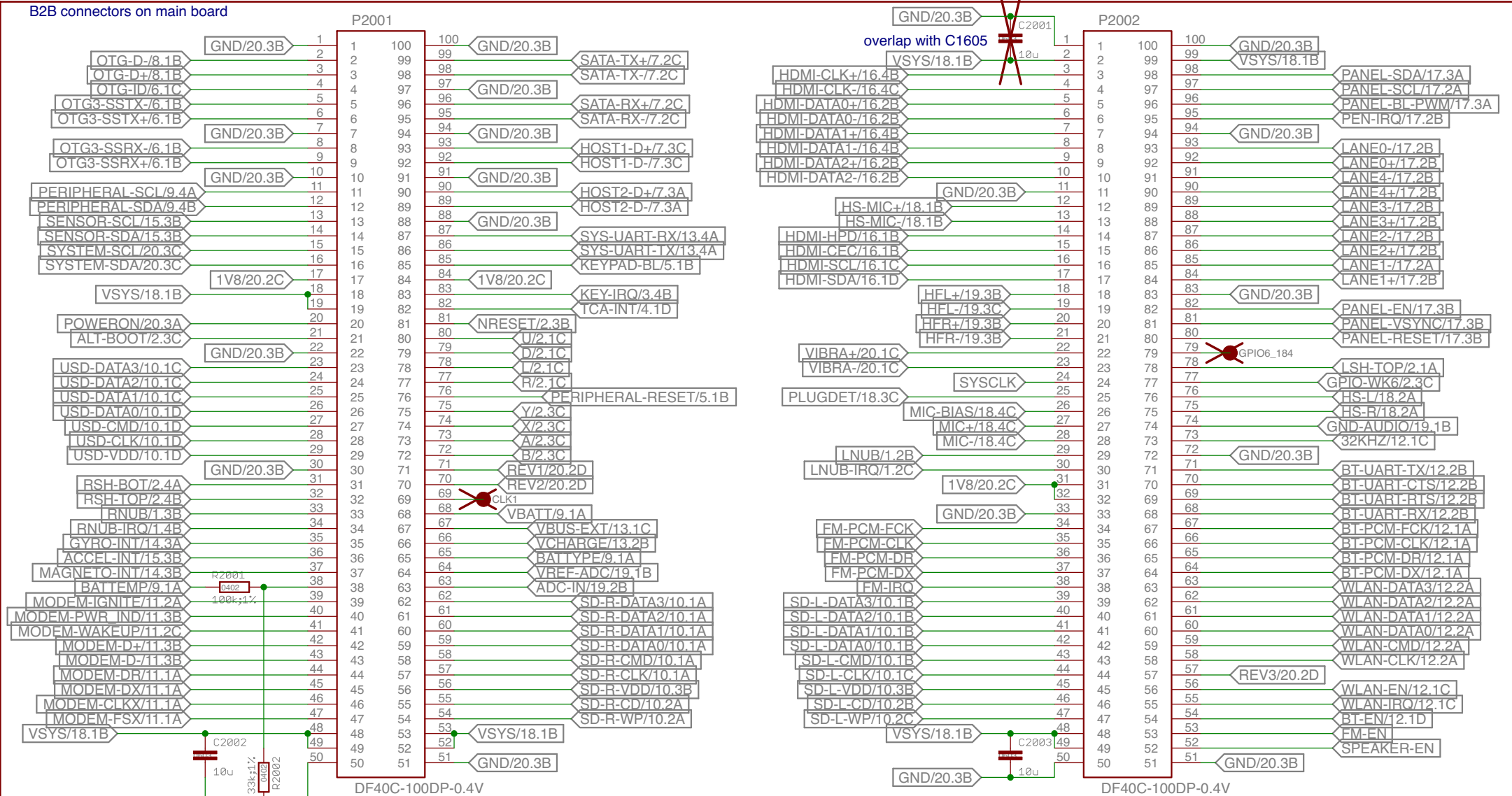
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B2B connectors on main board



NOTE: VBUSEXT connection is too weak for full 500mA OTG operation through SMPS10!

CPU-Module connector

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