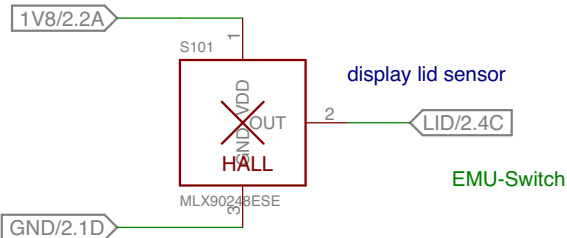
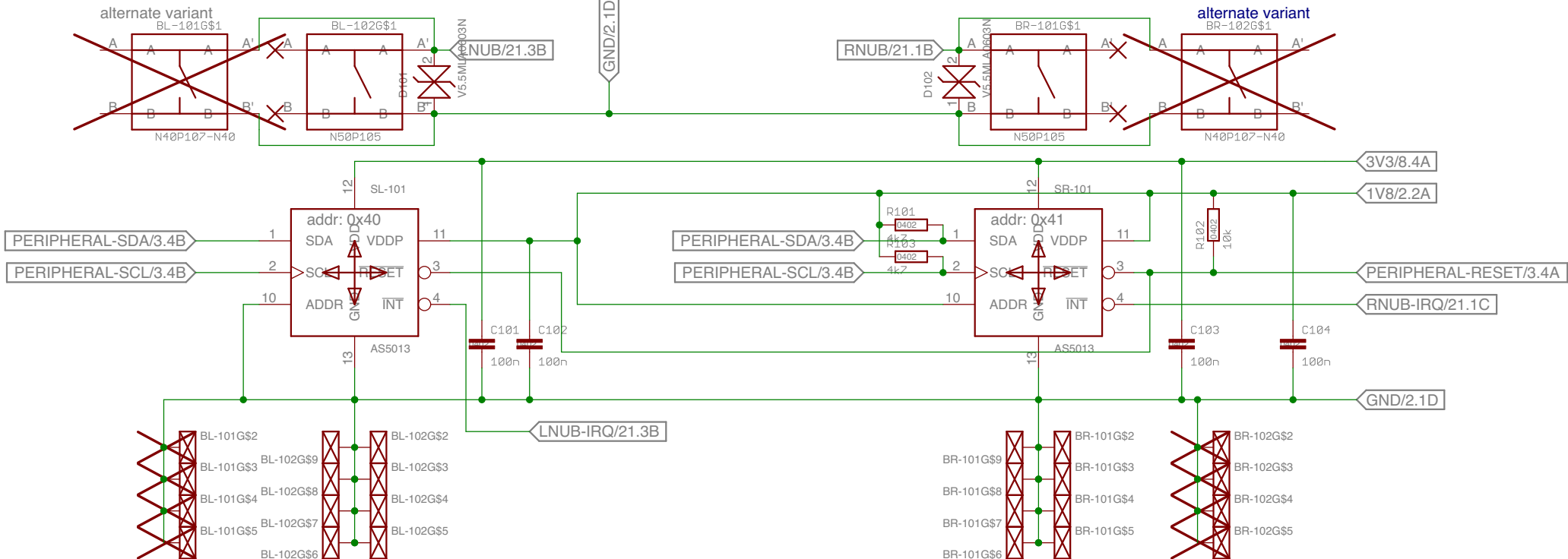
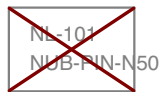


LEFT Nub



Nubs

TITLE: 20190717-DragonFly-MAIN-4G-US

Document Number:

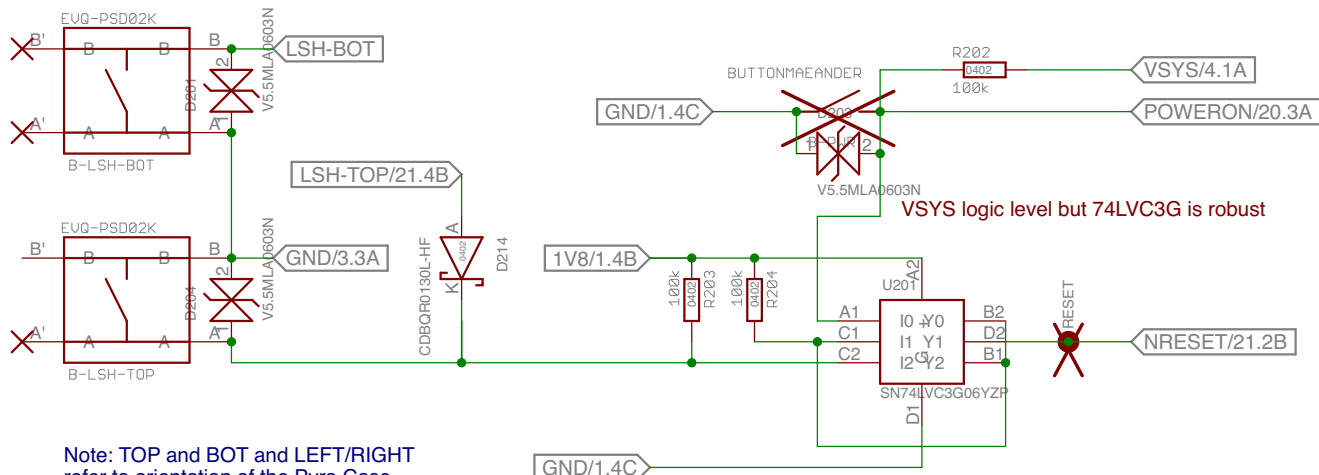
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Sheet: 1/55

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.

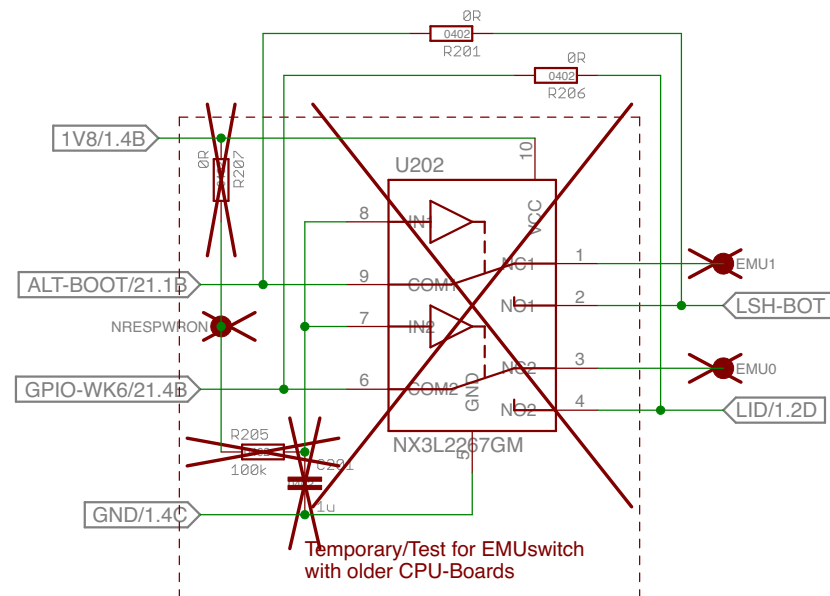
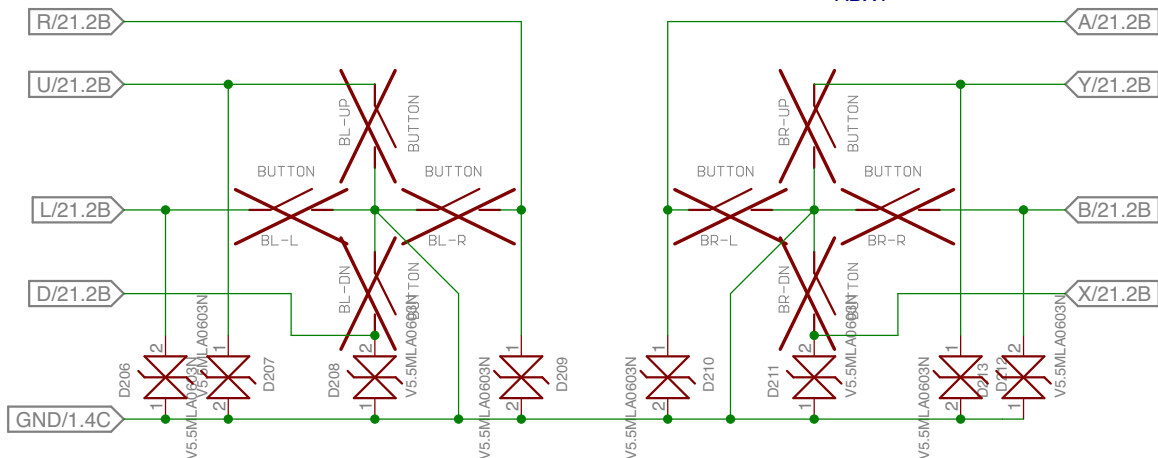
VSYS logic level but 74LVC3G is robust

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

D205 not installed because of mechanical conflict; should be moved in future PCB version

UDLR

ABXY



Temporary/Test for EMUswitch with older CPU-Boards

Buttons

TITLE: 20190717-DragonFly-MAIN-4G-US

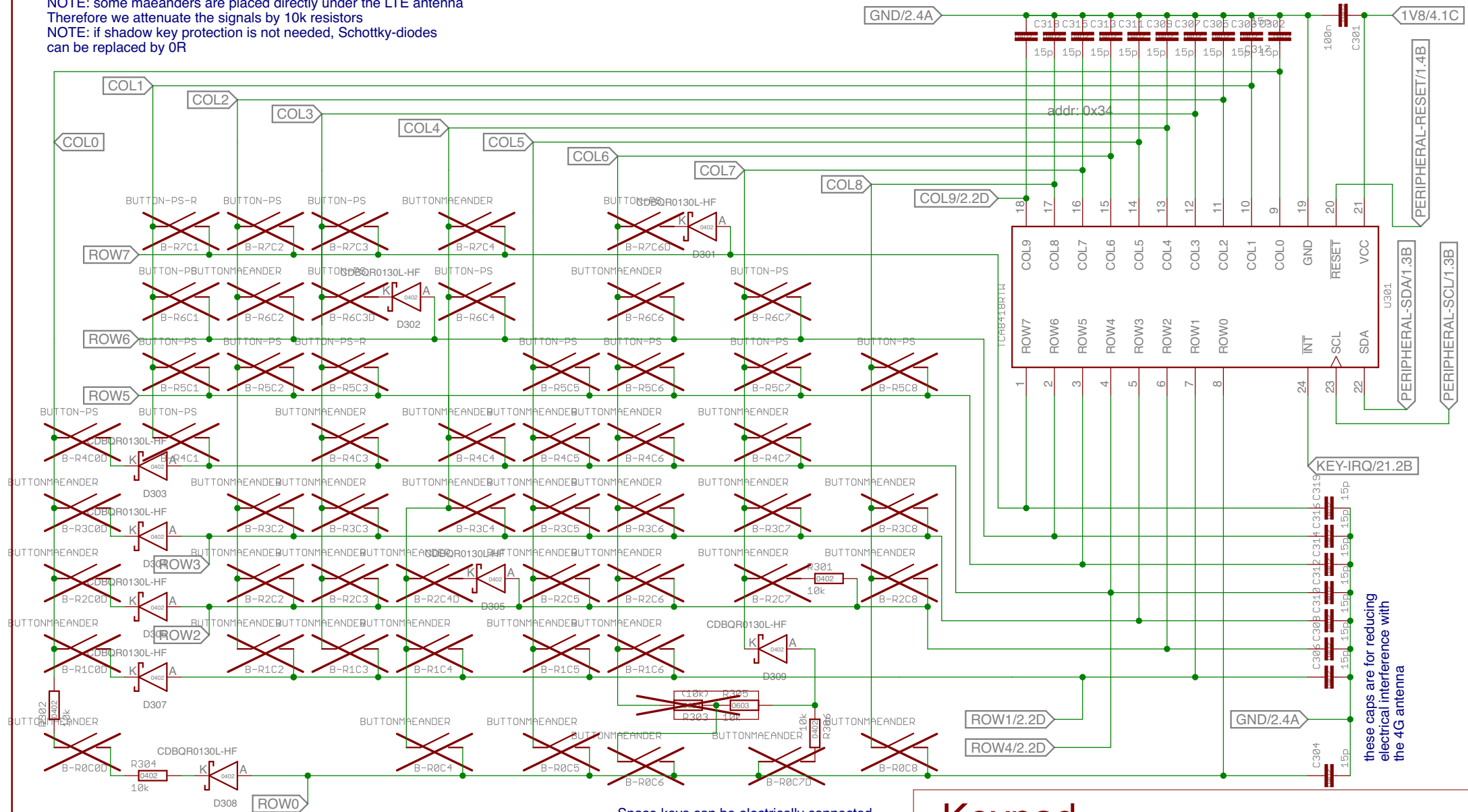
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Sheet: 2/55

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



Space keys can be electrically connected

N301
PYRA-KEYMAT

Keypad

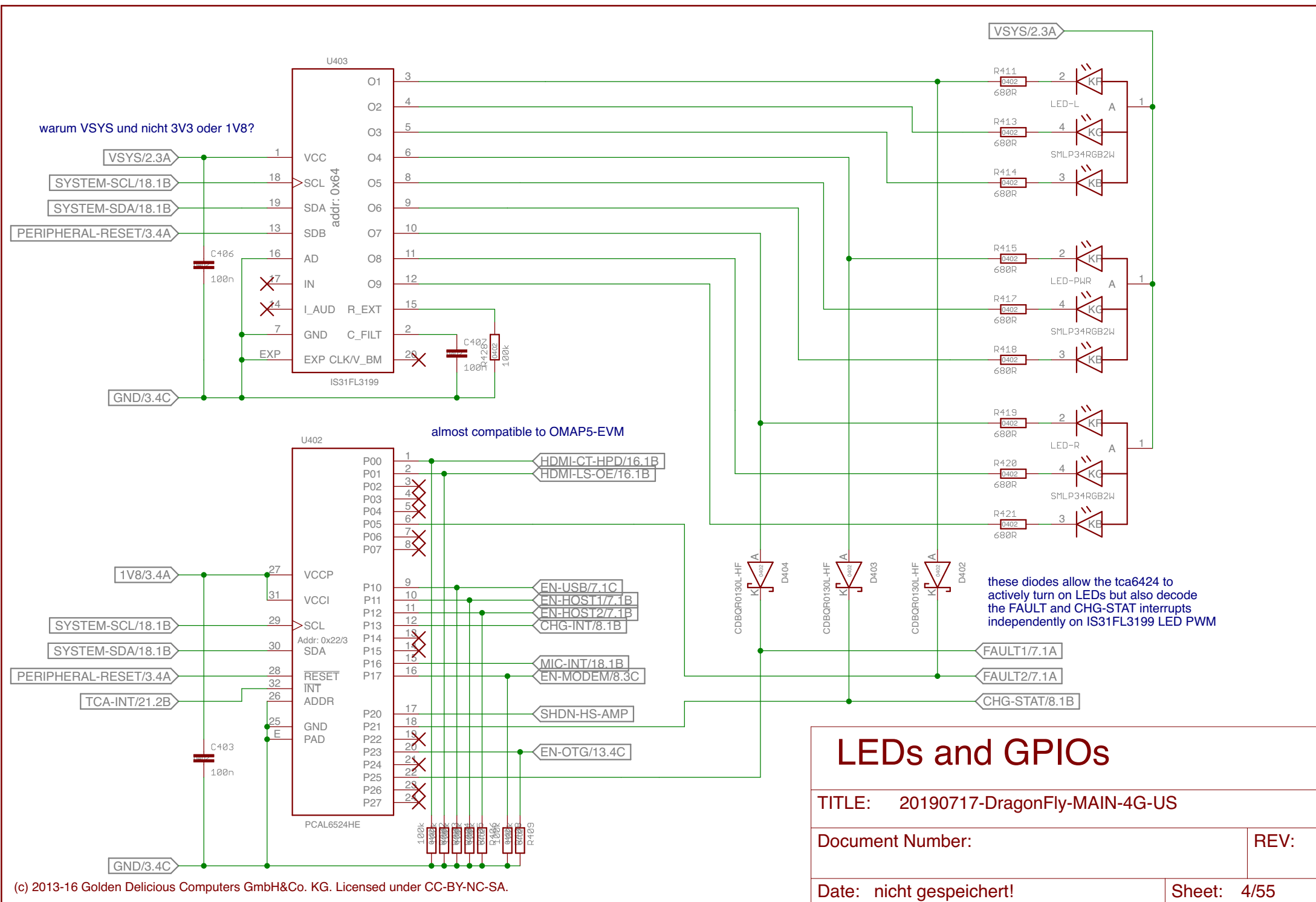
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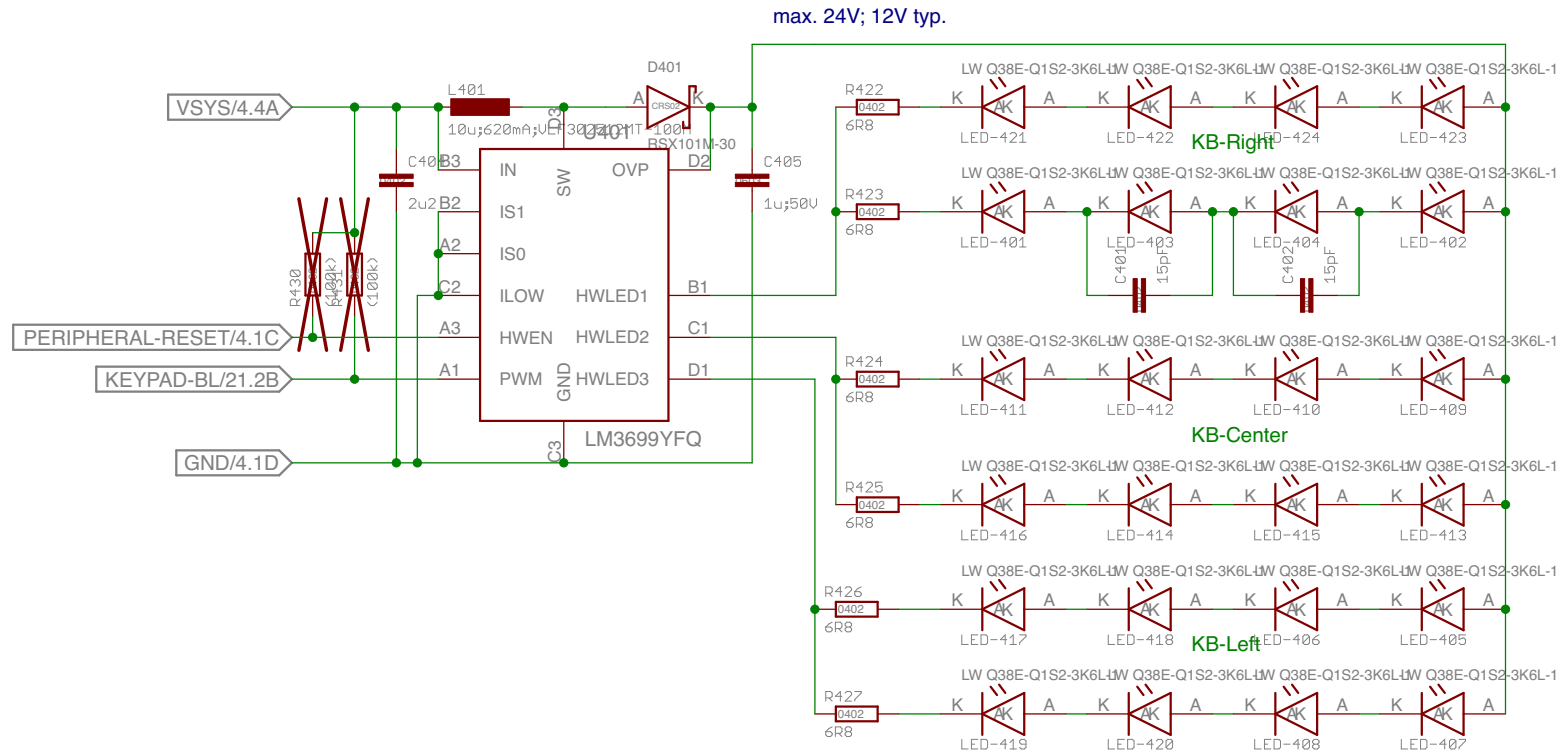
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Sheet: 3/55





Keyboard Backlight

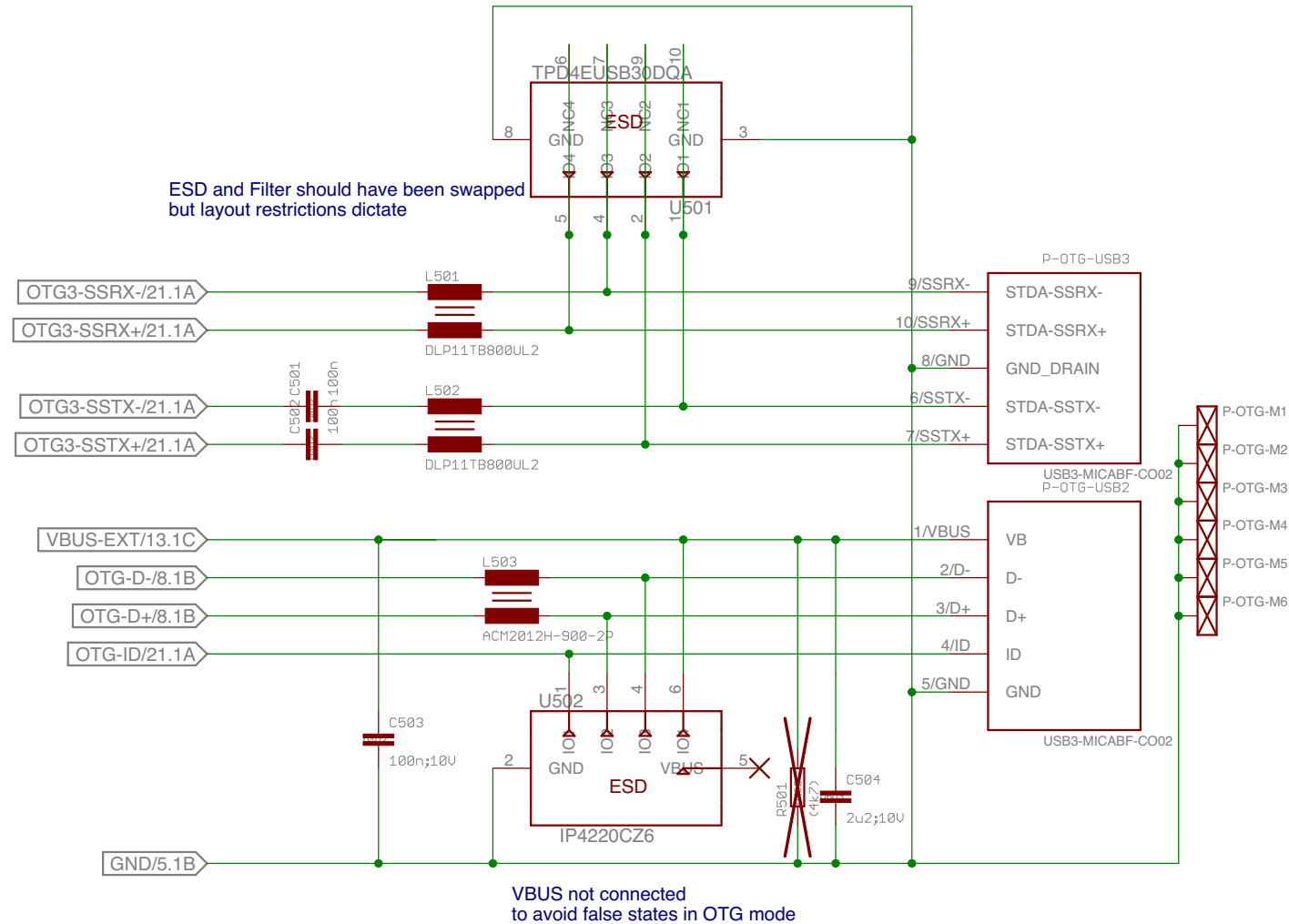
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Sheet: 5/55



USB-3.0 OTG

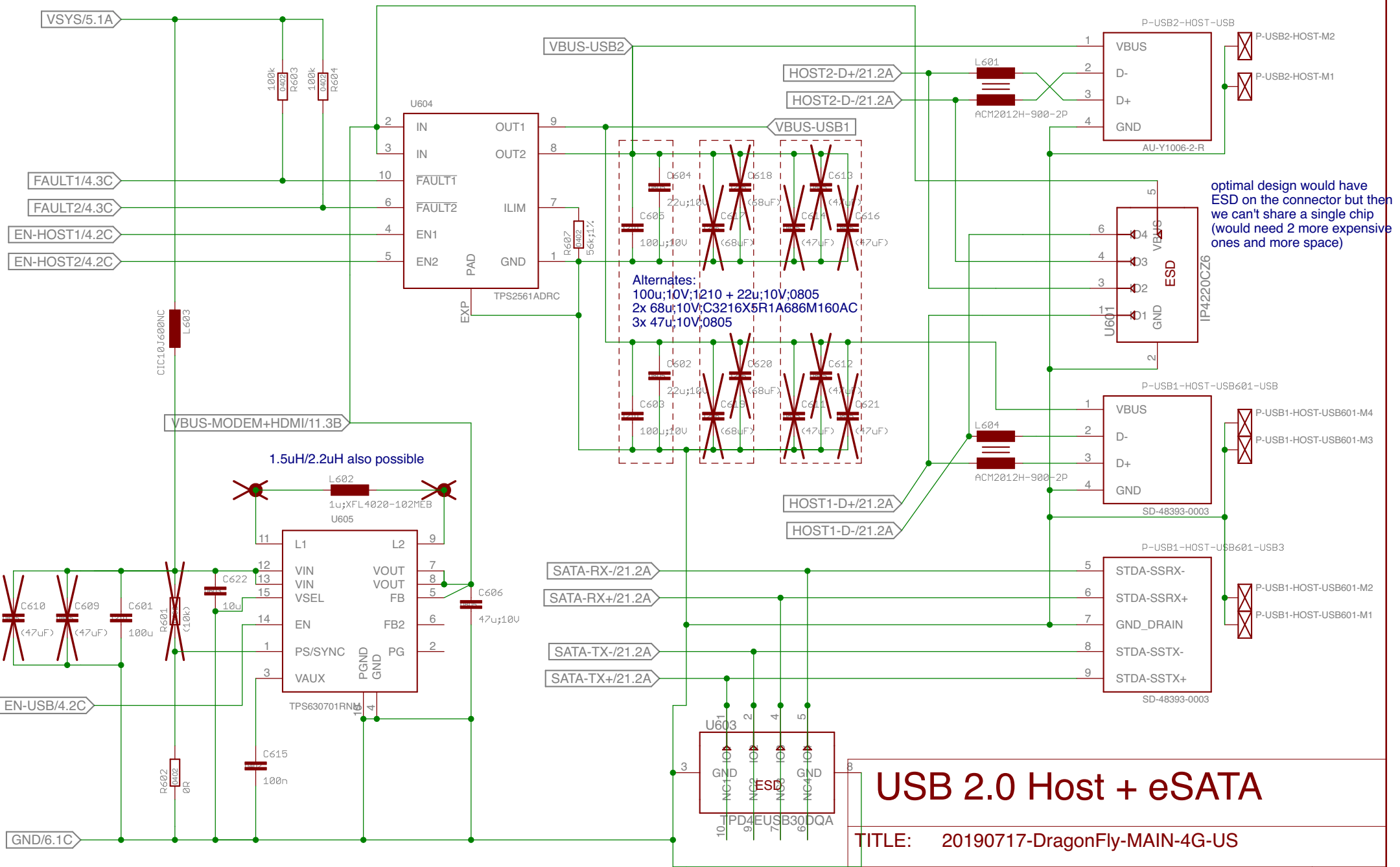
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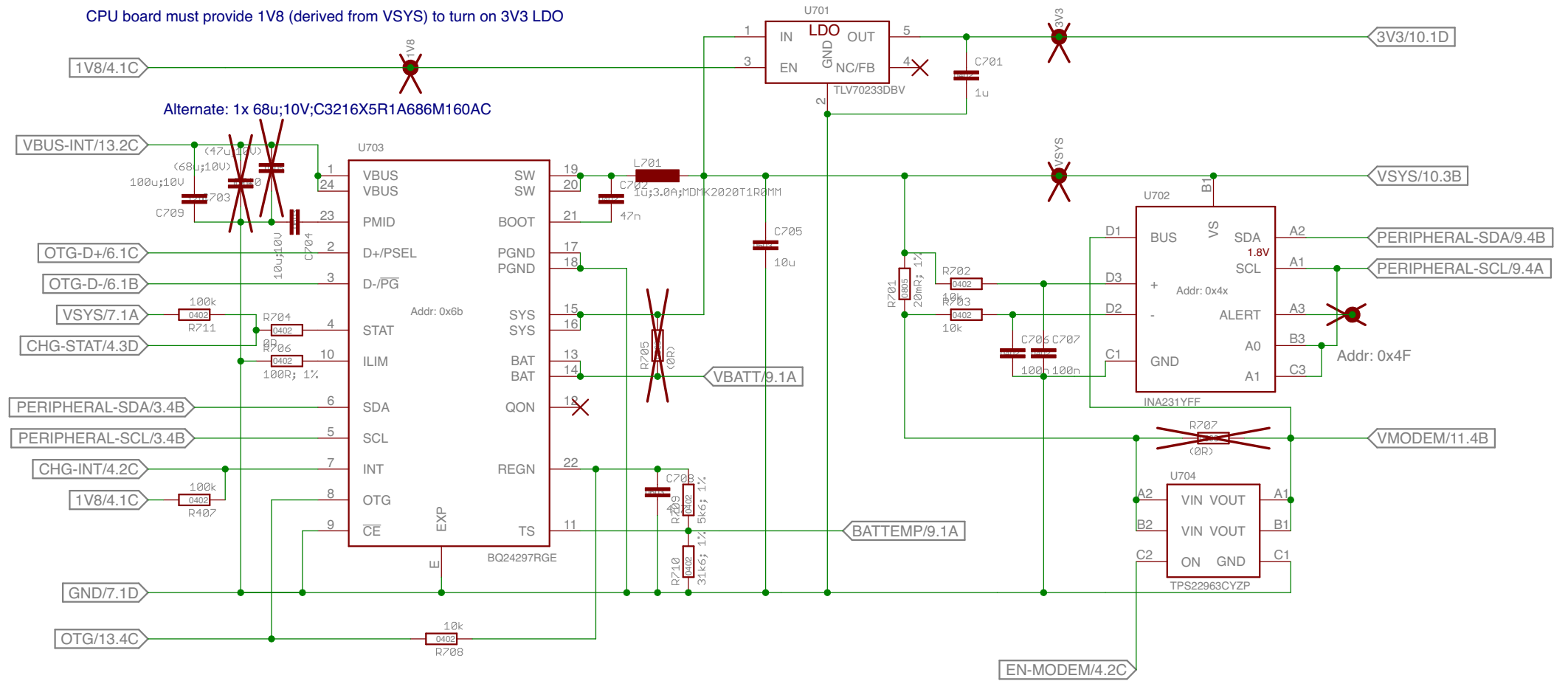
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Sheet: 6/55



CPU board must provide 1V8 (derived from VSYS) to turn on 3V3 LDO



Charger/OTG/Power

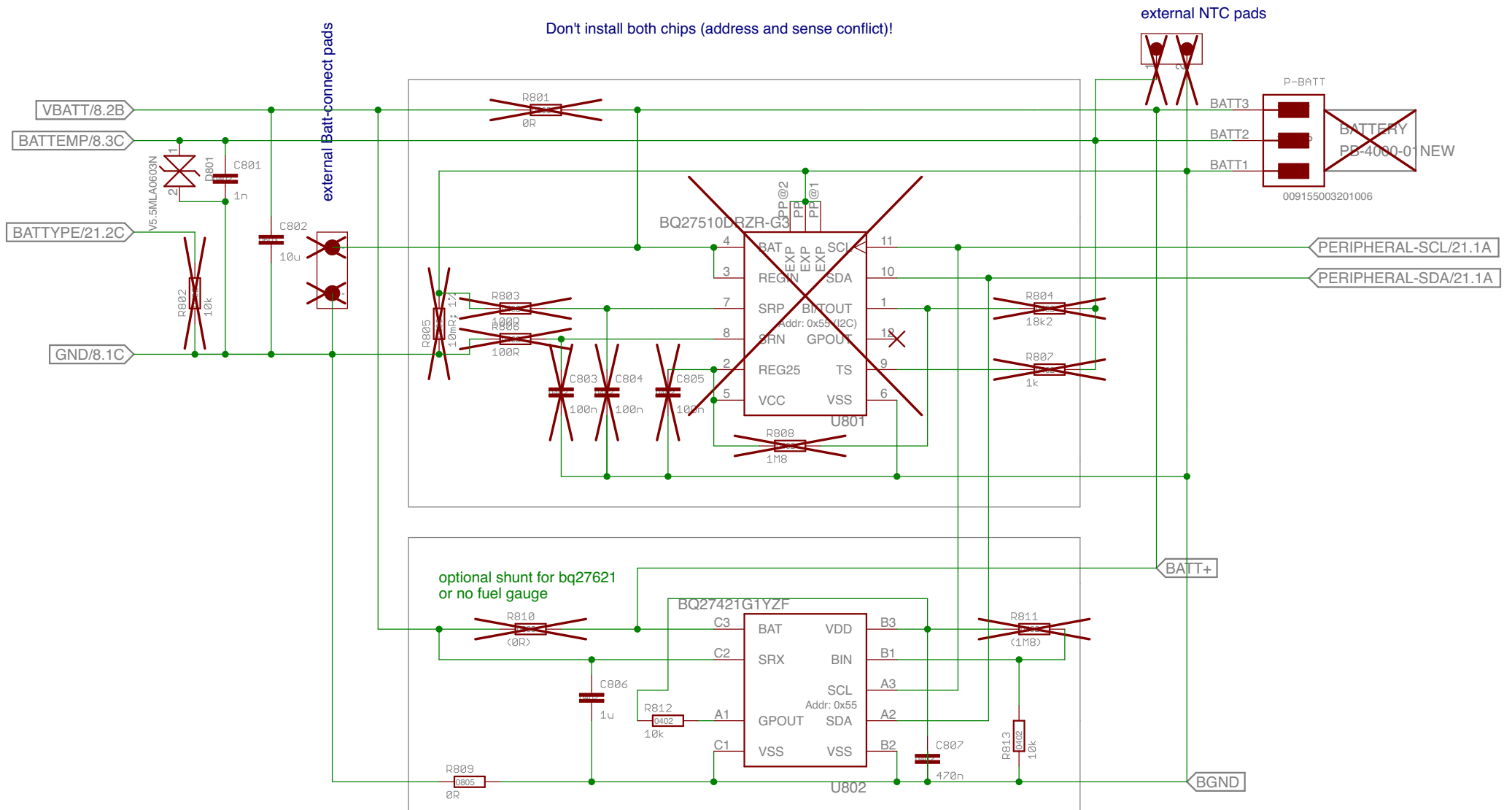
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Sheet: 8/55



Battery Fuel Gauge

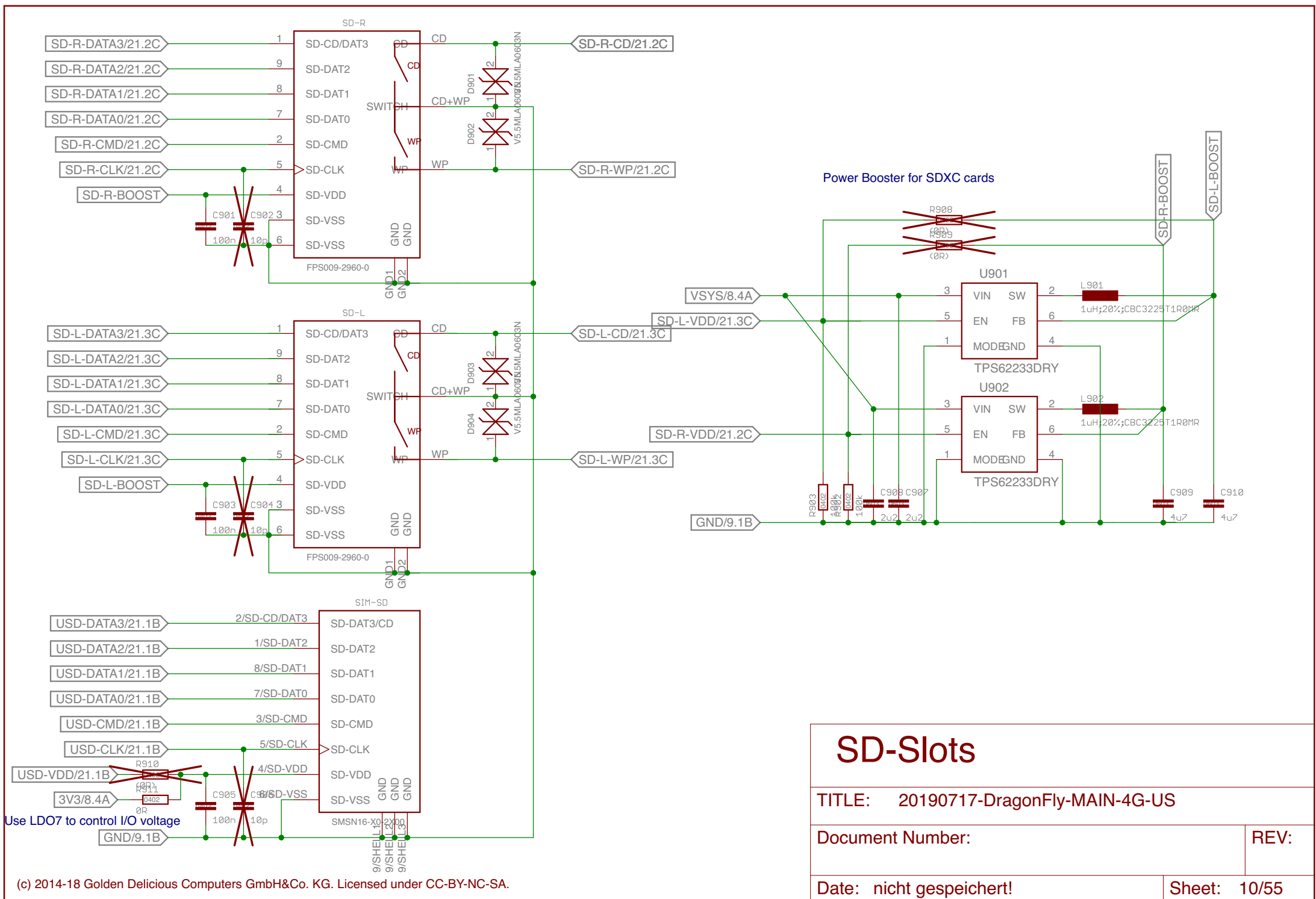
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Sheet: 9/55



SD-Slots

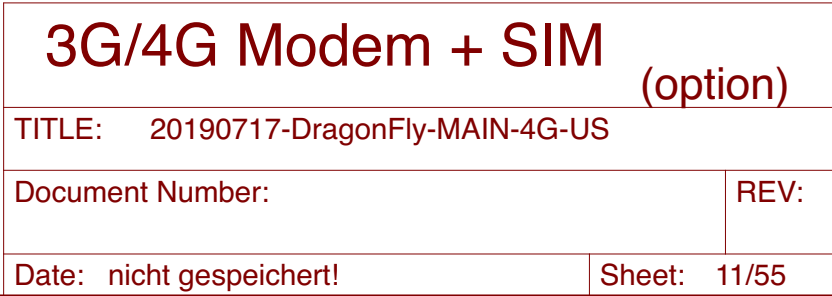
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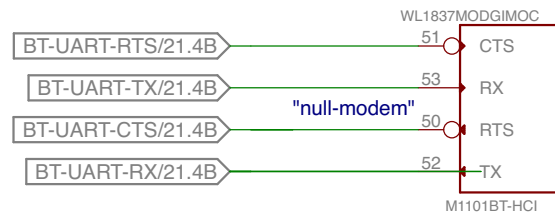
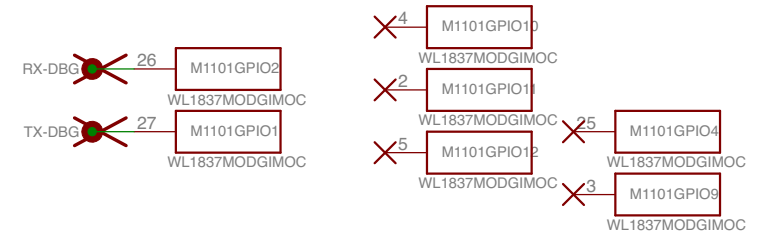
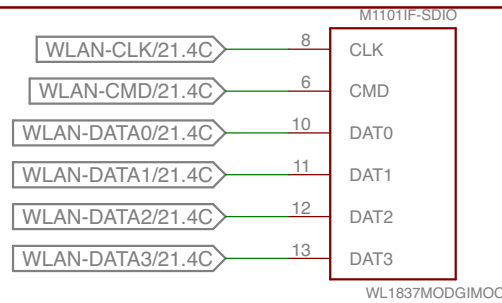
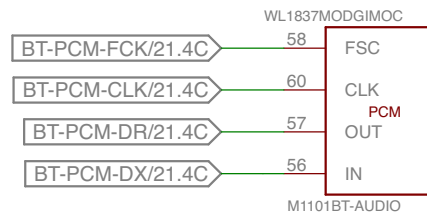
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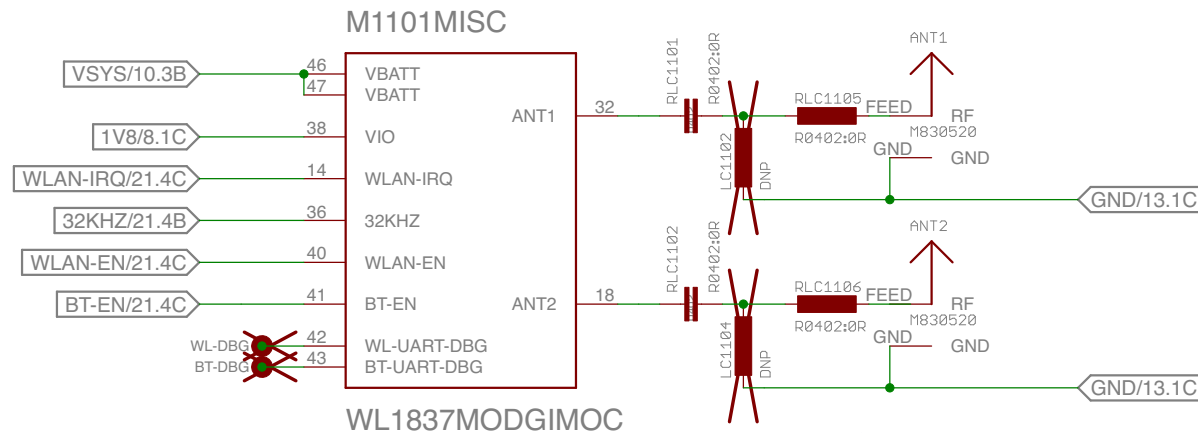
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Sheet: 10/55

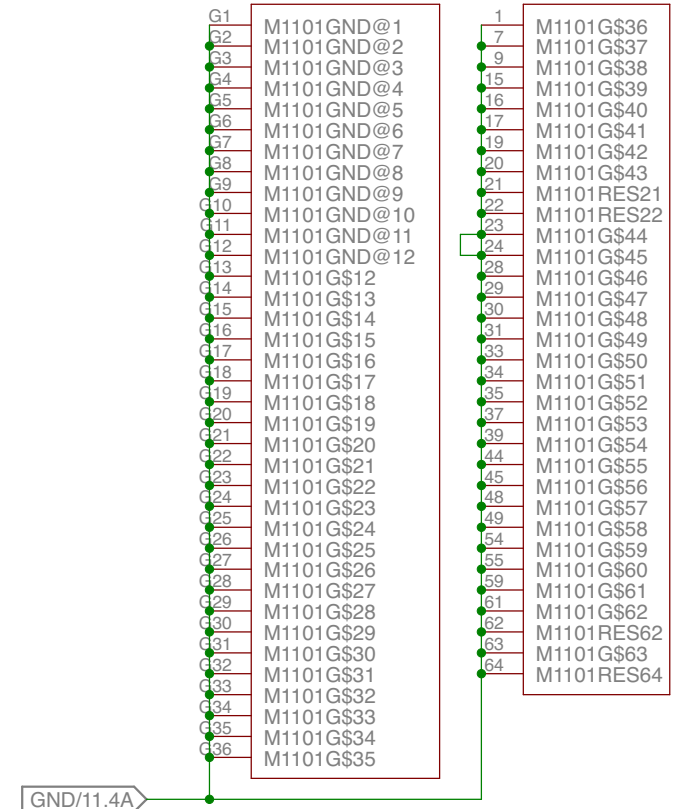




Future version should have a 4 channel switch for the MODEM lines of M1001



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



WLAN & Bluetooth

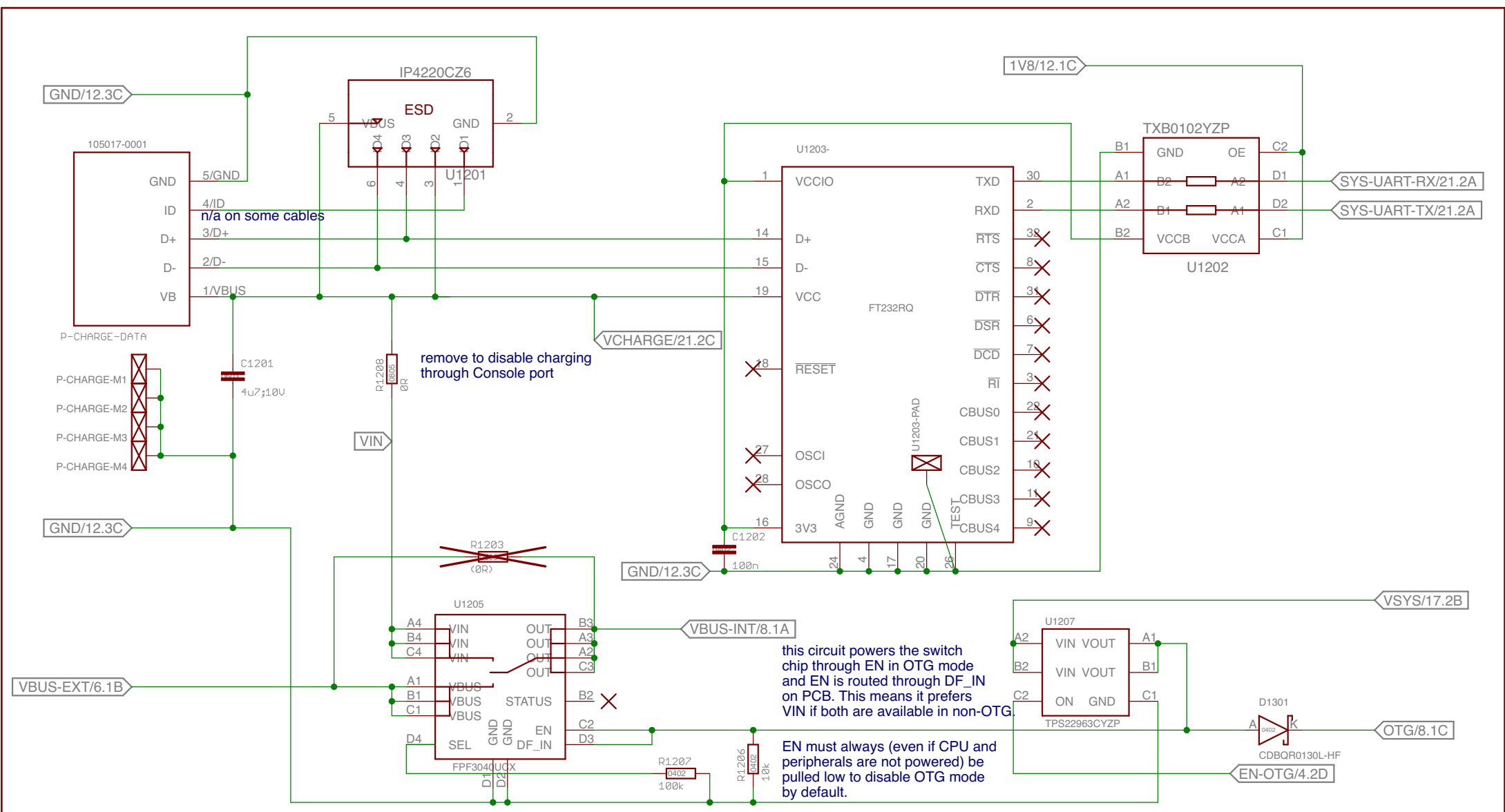
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V2b

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Sheet: 12/55



Charger/Console

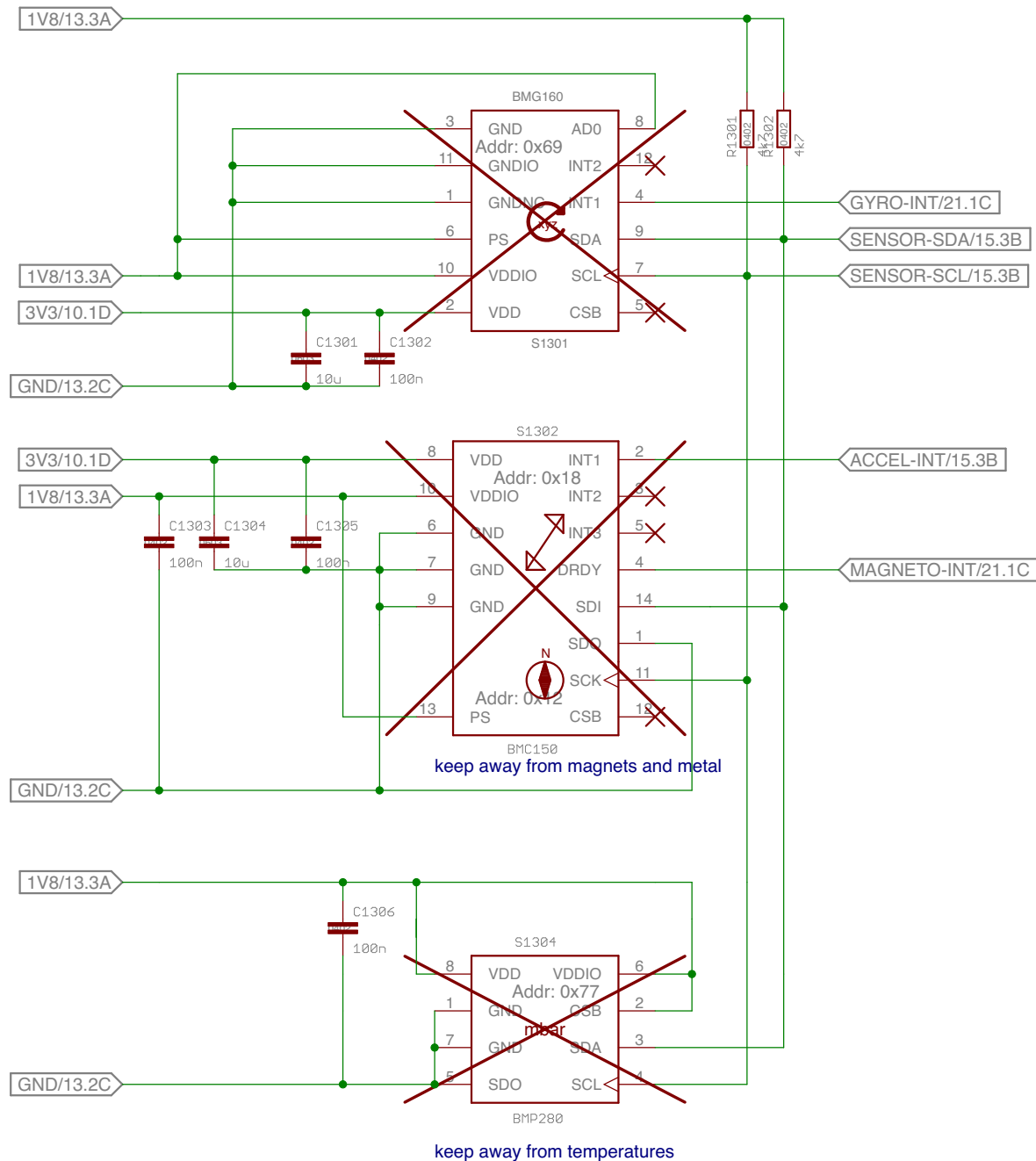
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Sheet: 13/55



Sensors

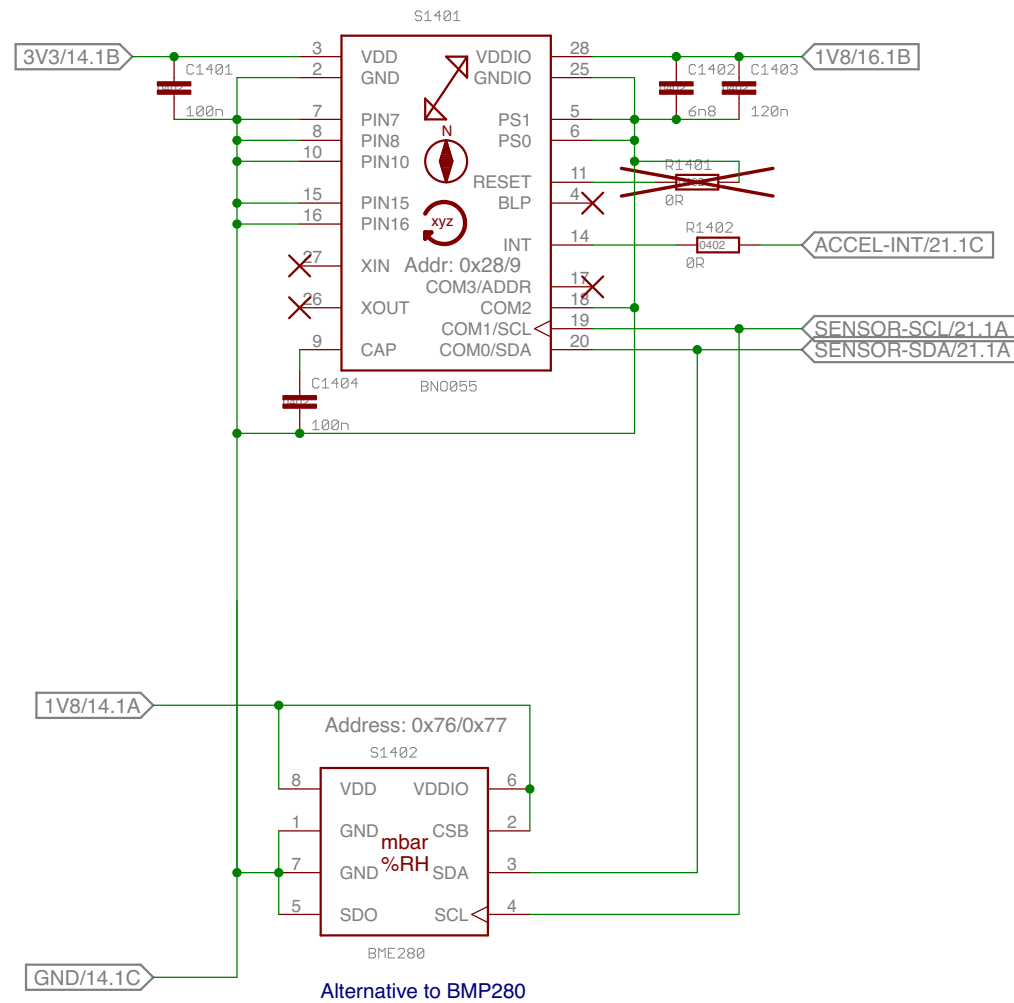
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Sheet: 14/55



Sensors (integrated)

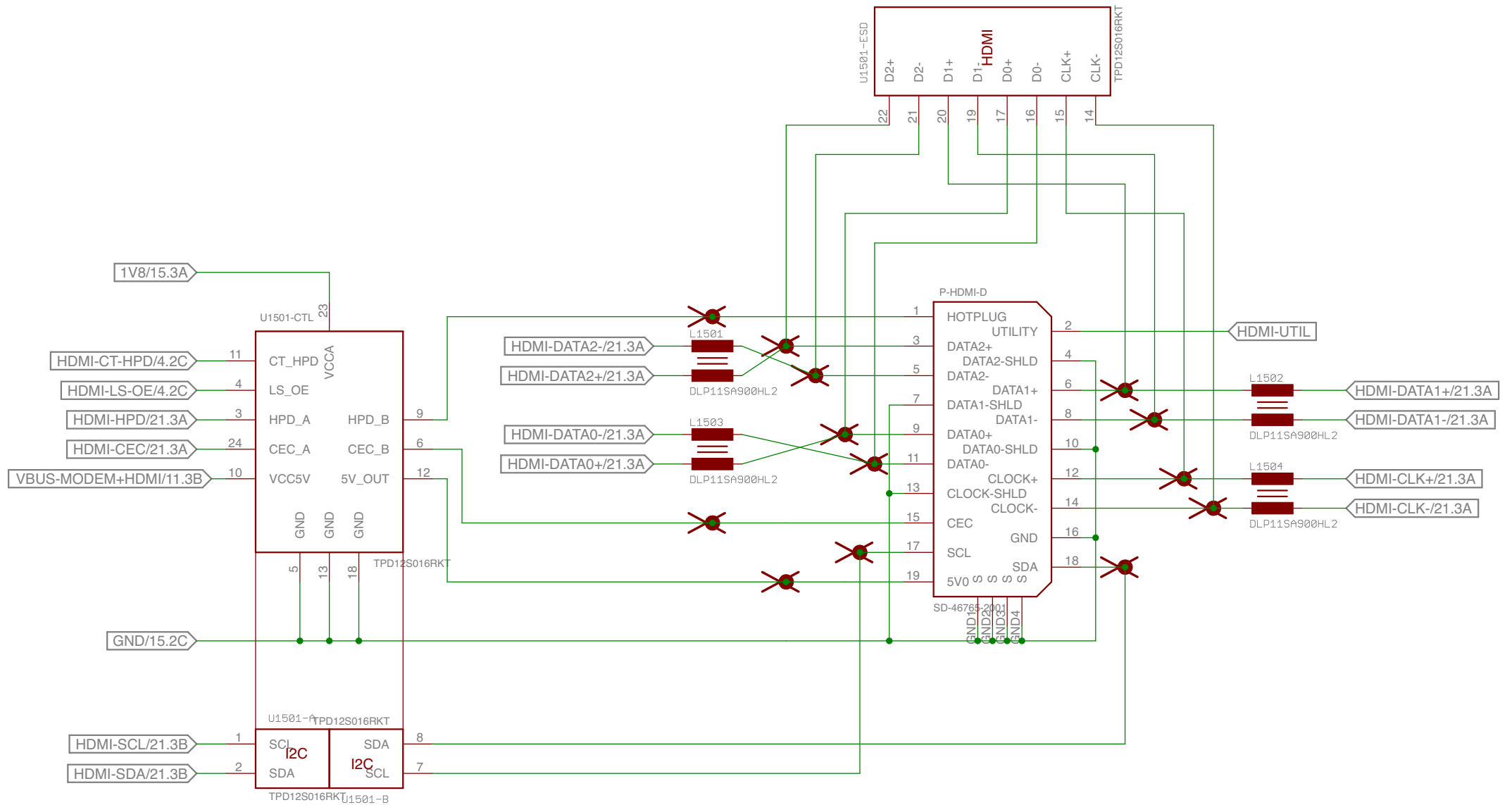
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Sheet: 15/55



HDMI

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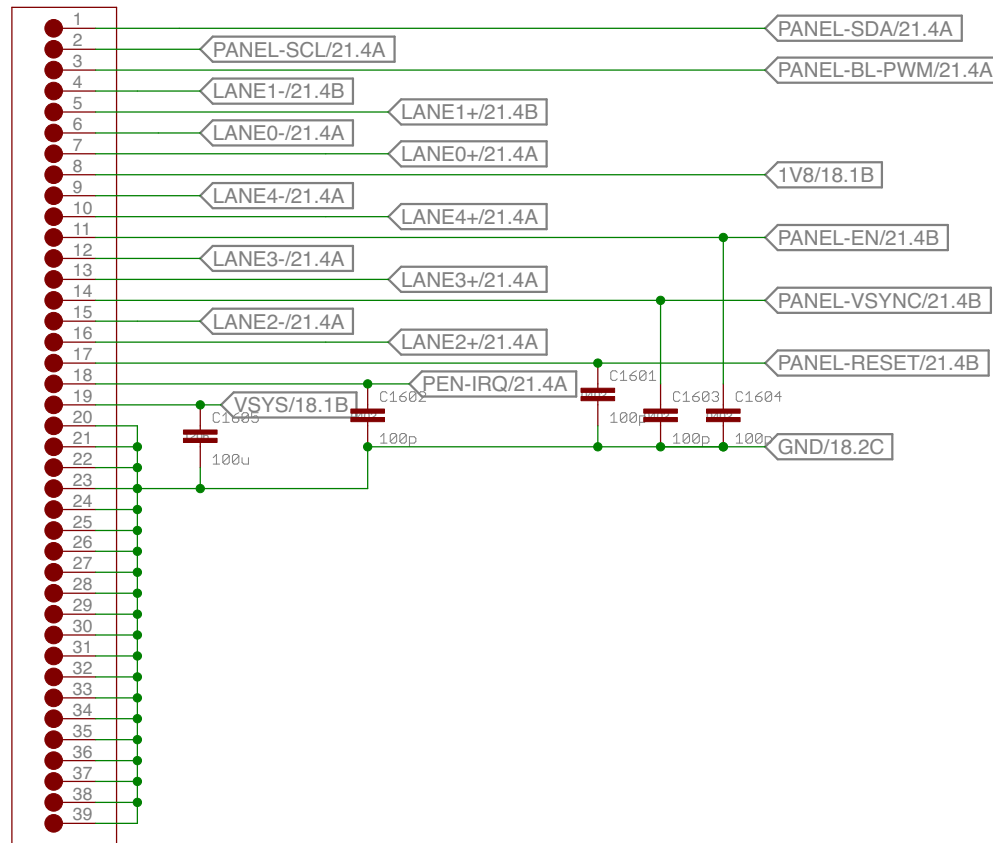
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Sheet: 16/55

Cable similar to Molex 15015**39



FH26-39S-0.3SHW(05)

Panel variant detect is done by checking if PANEL-EN or PANEL-RESET have 18k Pullups or Pulldowns installed or are floating on connected panel board.

Panels:
EN=f R=f: no or 4.x panels (no distinction)
EN=PU R=PD: BOE+SSD
EN=PU R=PU: BOE w/o SSD
EN=PD R=PD: Full-HD
...

Display Connector

TITLE: 20190717-DragonFly-MAIN-4G-US

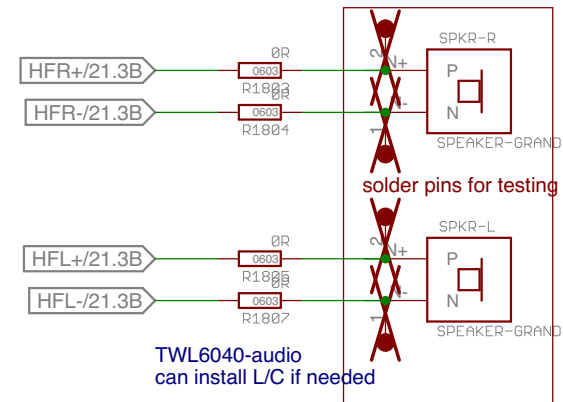
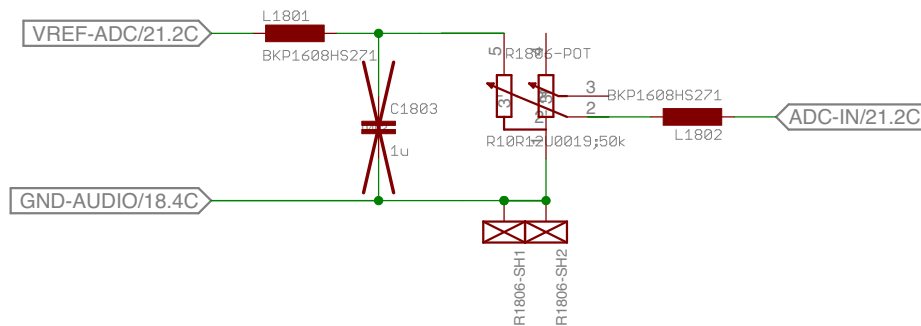
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Sheet: 17/55

Digital(ized) Volume Wheel



Audio Speaker

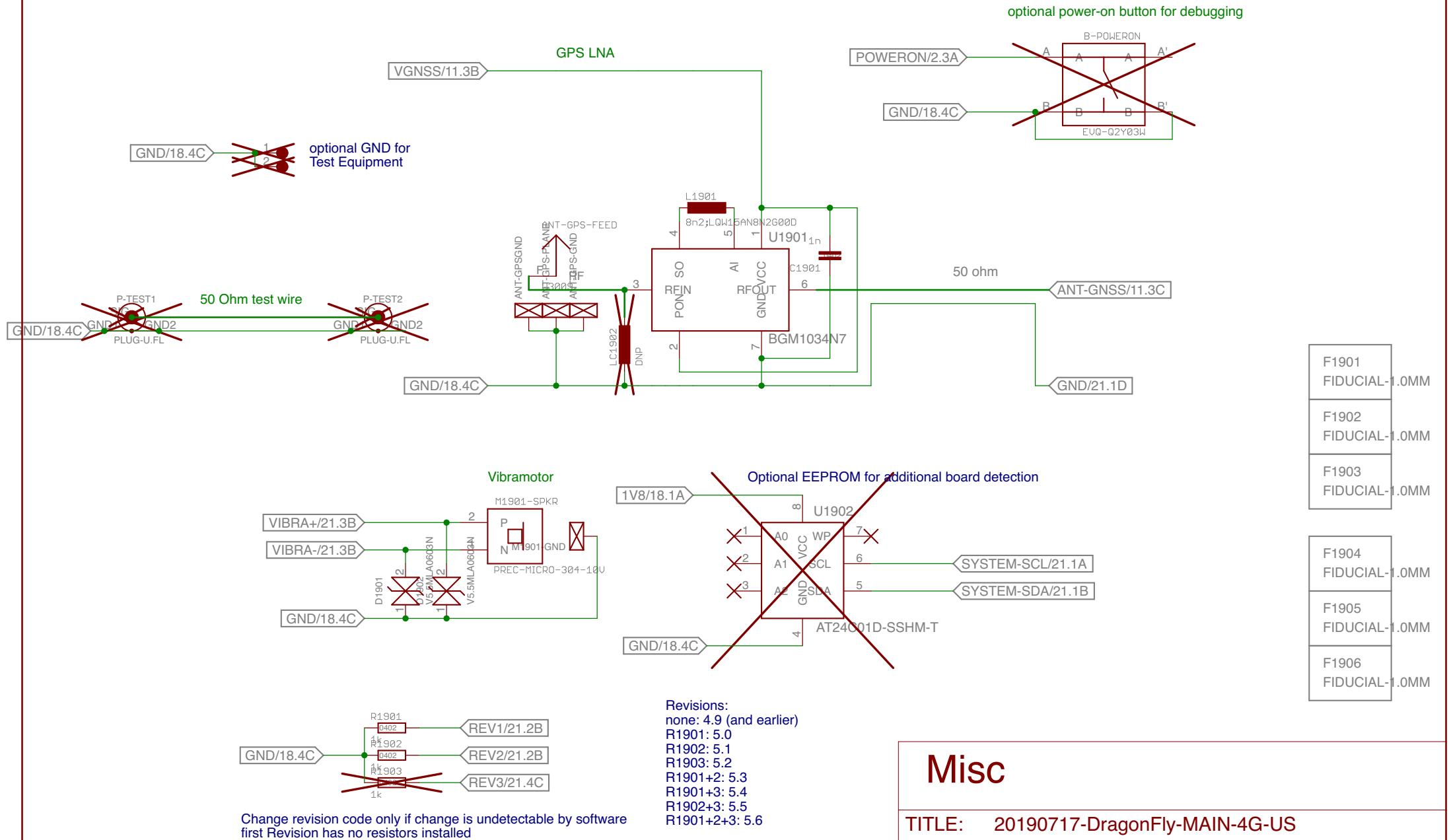
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Sheet: 19/55



Misc

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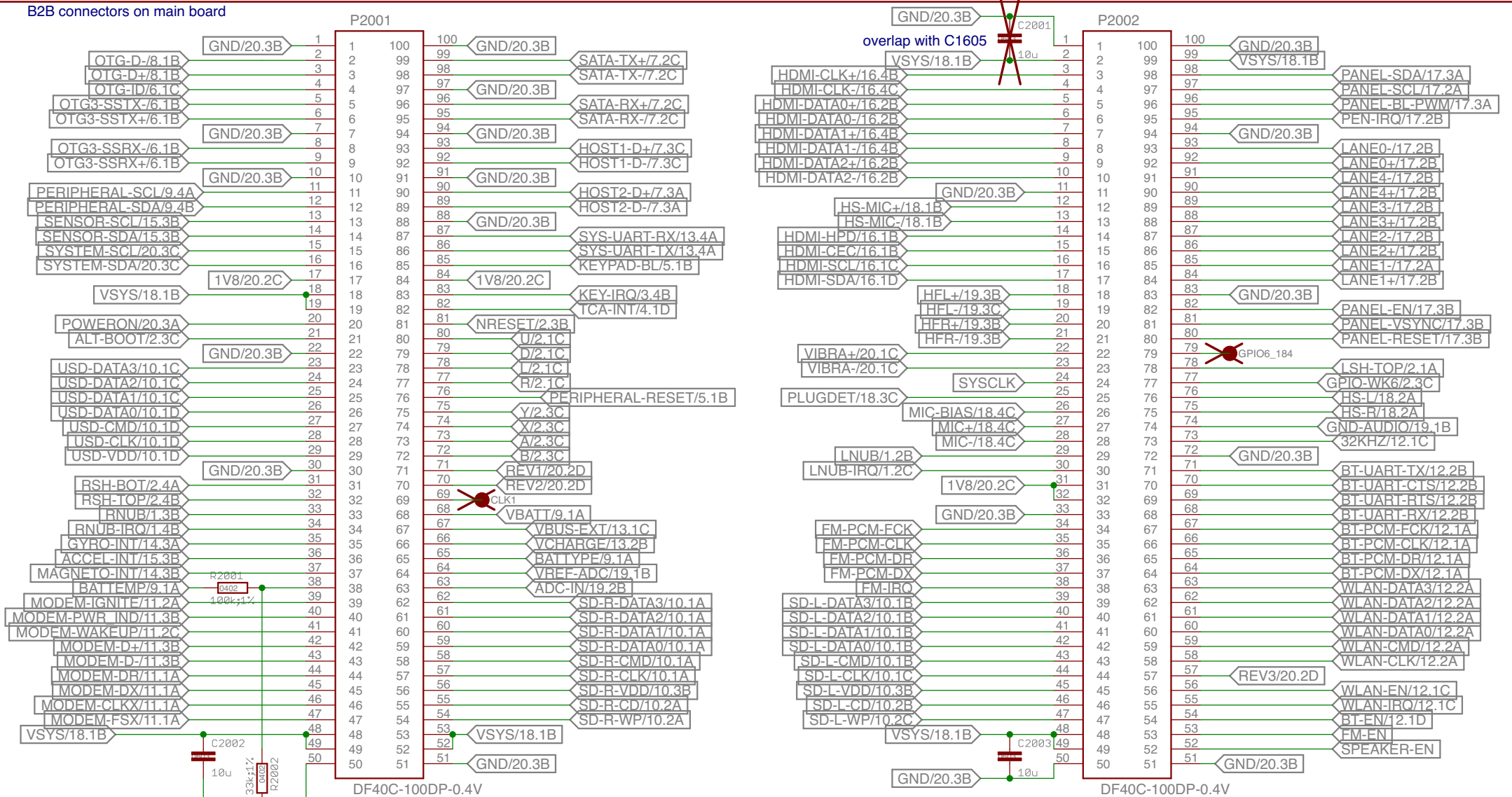
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Sheet: 20/55

B2B connectors on main board



CPU-Module connector

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Sheet: 21/55