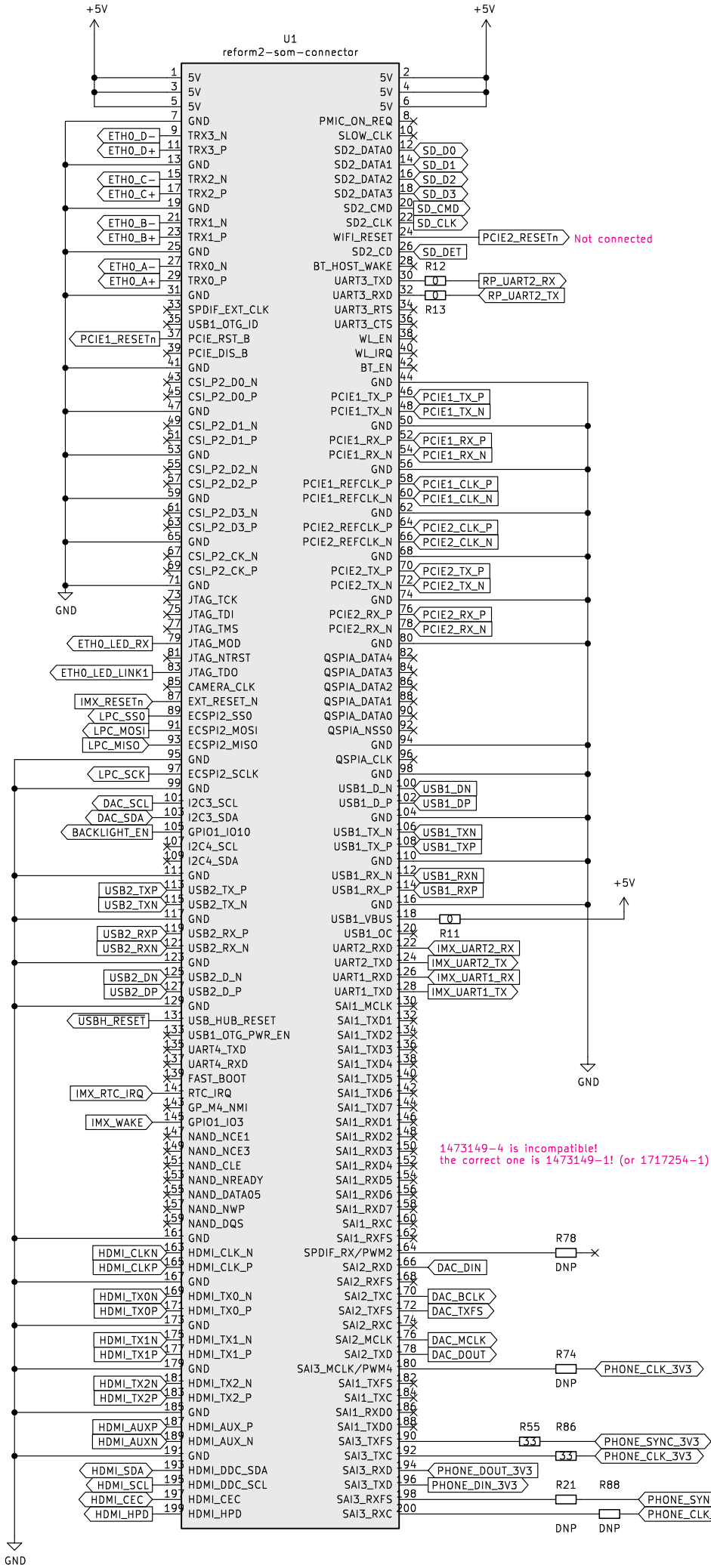


MNT Pocket Reform Operator Handbook Errata 2024-06-13

Unfortunately, we identified some errors in the Operator Handbook after the printing deadline of the first batch. Because we didn't want to throw away 100 otherwise fine books, we decided to include these errata pages instead.

1. Due to unexpected behavior of the default "Paste" function in KiCAD, the motherboard schematics have many wrong designators (part references, for example "R123"). This document contains corrected replacement schematics.
2. Page 29: there is a space missing after "Replace the username kim".
3. Page 30: the last sentence of "4.16 Shutdown" refers to a non-existent "Circle" key. The correct instructions are: Press "Hyper" and "Enter" to open the OLED menu, then press 0 (zero) to power down.
4. Page 33: "the system on the SD card" should be "the system on the eMMC flash".
5. Page 55: the second sentence "All parts..." should be erased. The Two Halves and the Keyboard Frame are made from anodized 6061 aluminum. The Display Frame and other covers are PCBs.

Processor Module Slot



MNT Pocket Reform Motherboard Schematics
for PREFFMOB10R01
Operator Handbook Erratum Edition
2024-06-13
MNT Research GmbH
<https://mntre.com>
License: CERN OHL-S 2.0

System Controller

File: pref-system-controller.kicad_sch

Power Rails

File: pref-power-rails.kicad_sch

USB Hub

File: pref-usb-hub.kicad_sch

USB-C

File: pref-usb-c.kicad_sch

Micro HDMI

File: pref-micro-hdmi.kicad_sch

MicroSD

File: pref-microsd.kicad_sch

Audio

File: pref-audio.kicad_sch

Ethernet

File: pref-ethernet.kicad_sch

Display

File: pref-display.kicad_sch

M.2-M

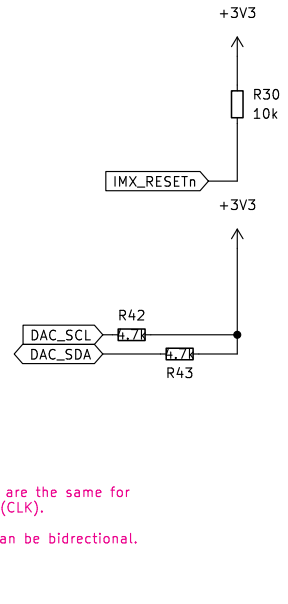
File: pref-m2-m.kicad_sch

M.2-B

File: pref-m2-b.kicad_sch

Internal Ports, Clock

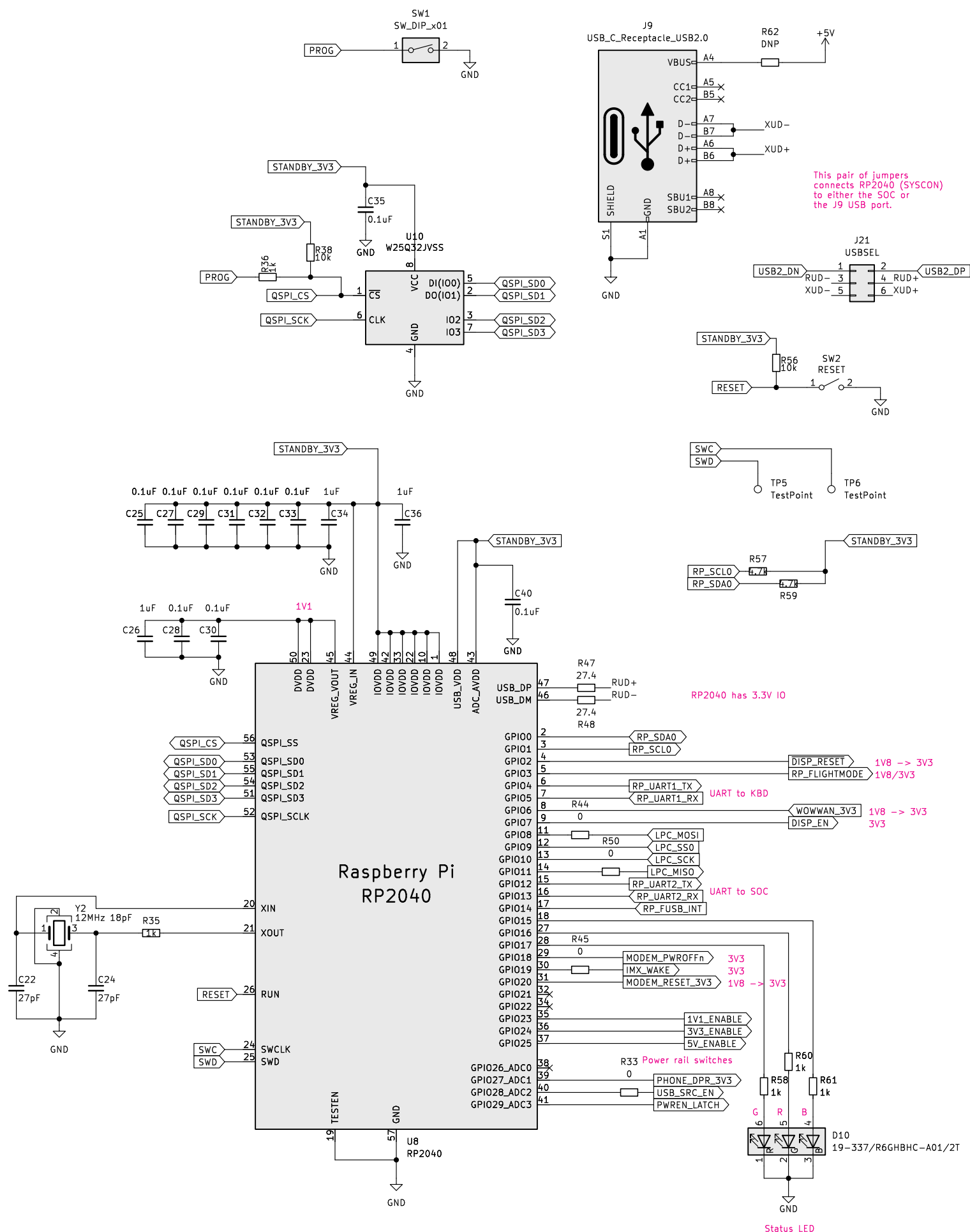
File: pref-internal-ports-clock.kicad_sch



- MCLK+BCLK are the same for the modem (CLK).

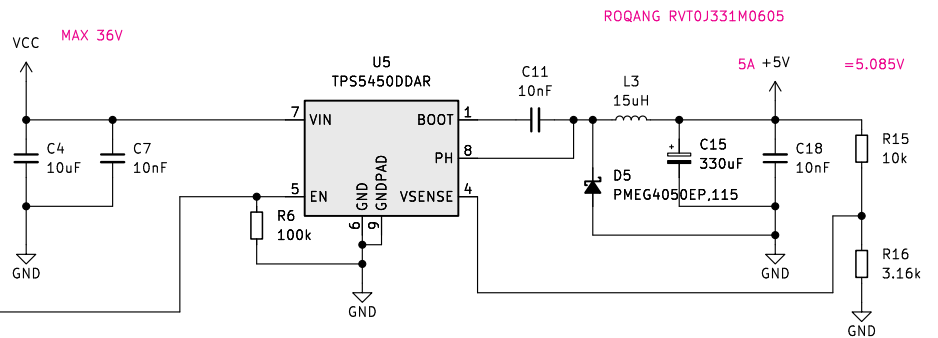
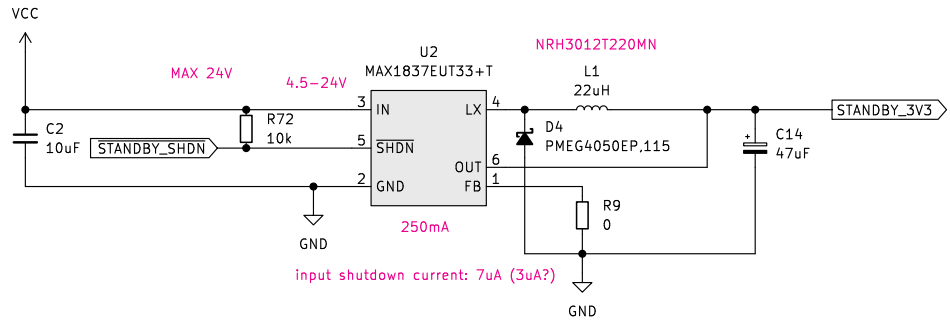
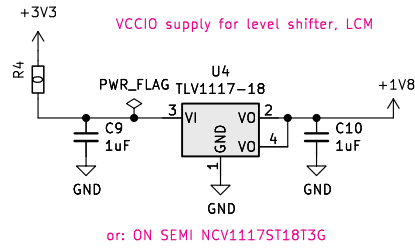
all clocks can be bidirectional.

System Controller

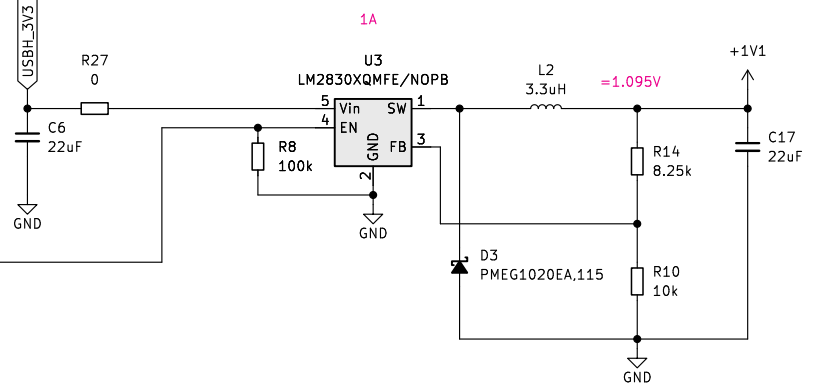
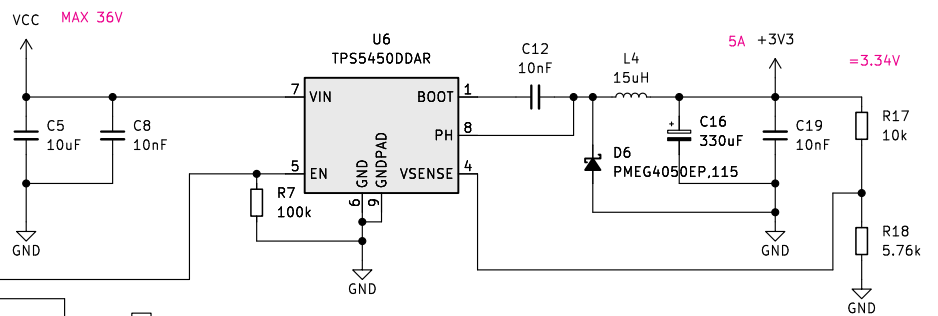
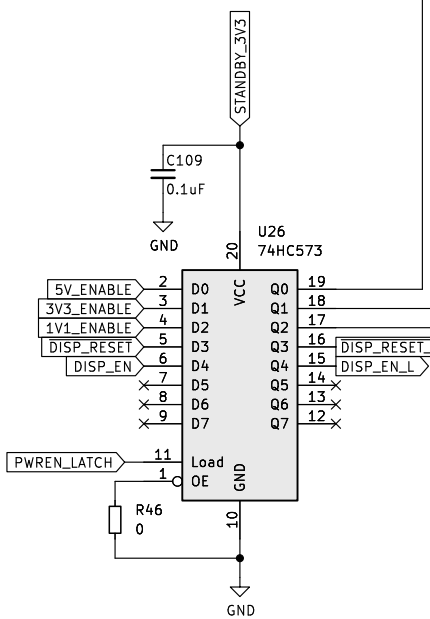


Status LED

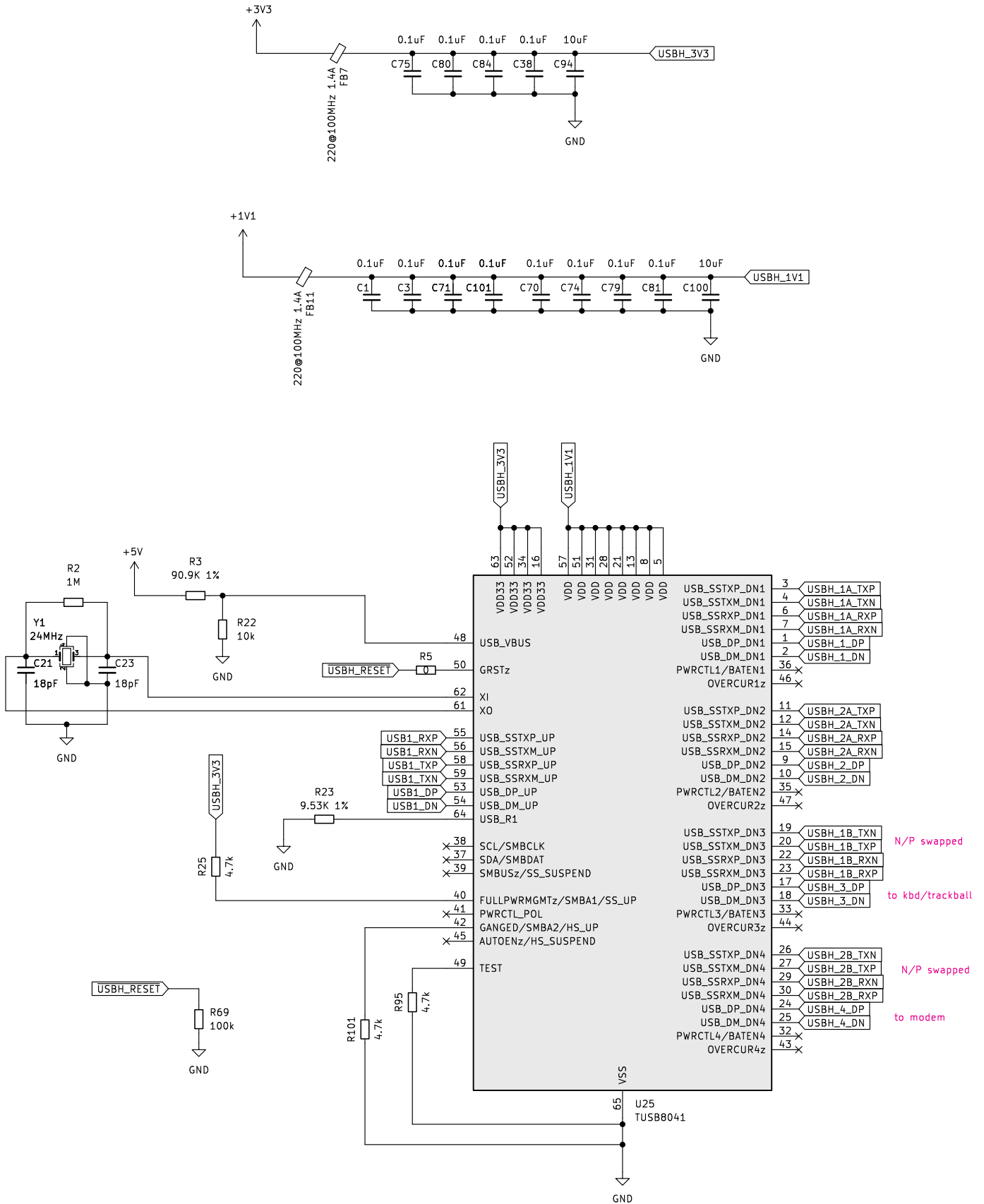
Power Rails



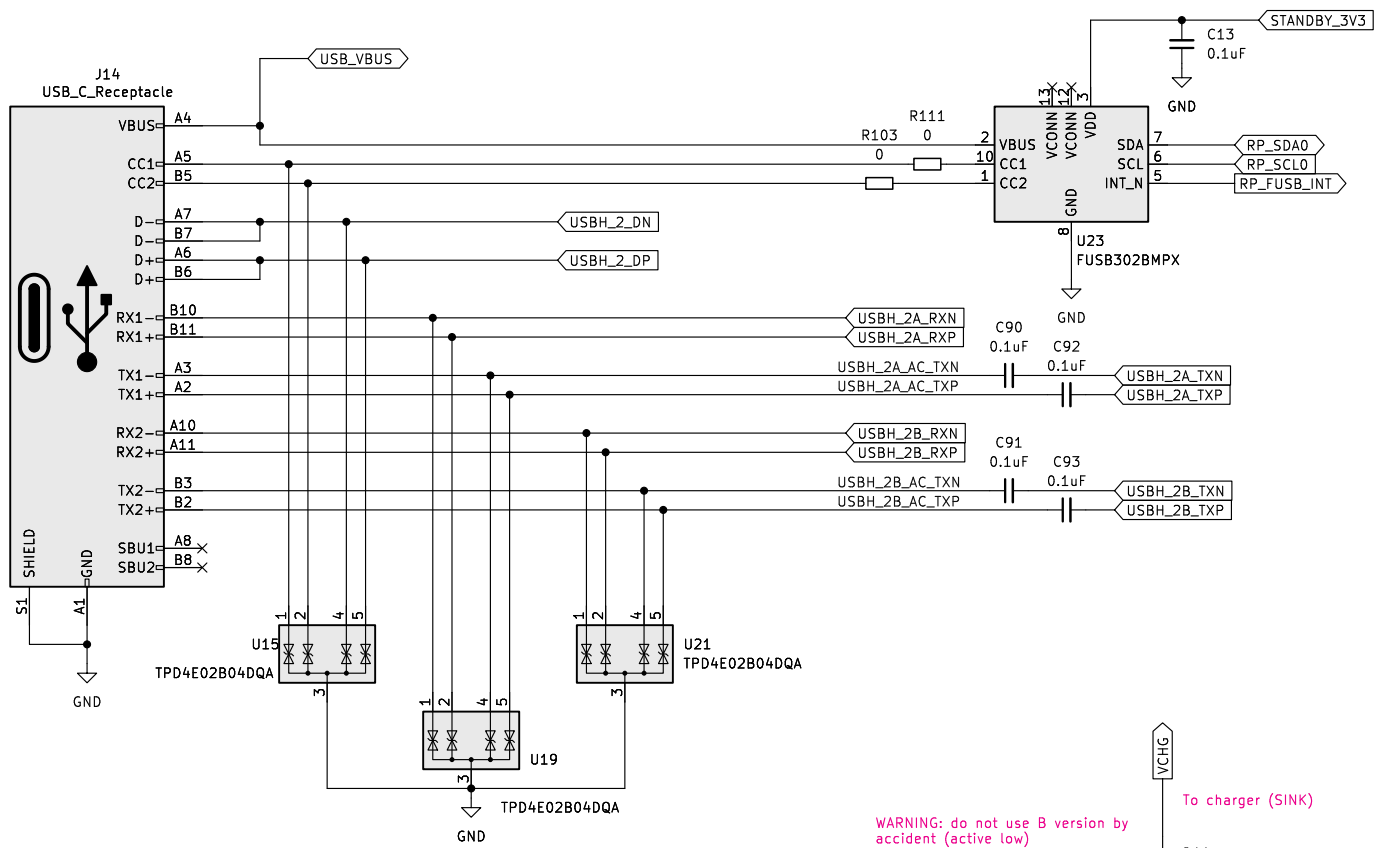
Latch for Enables



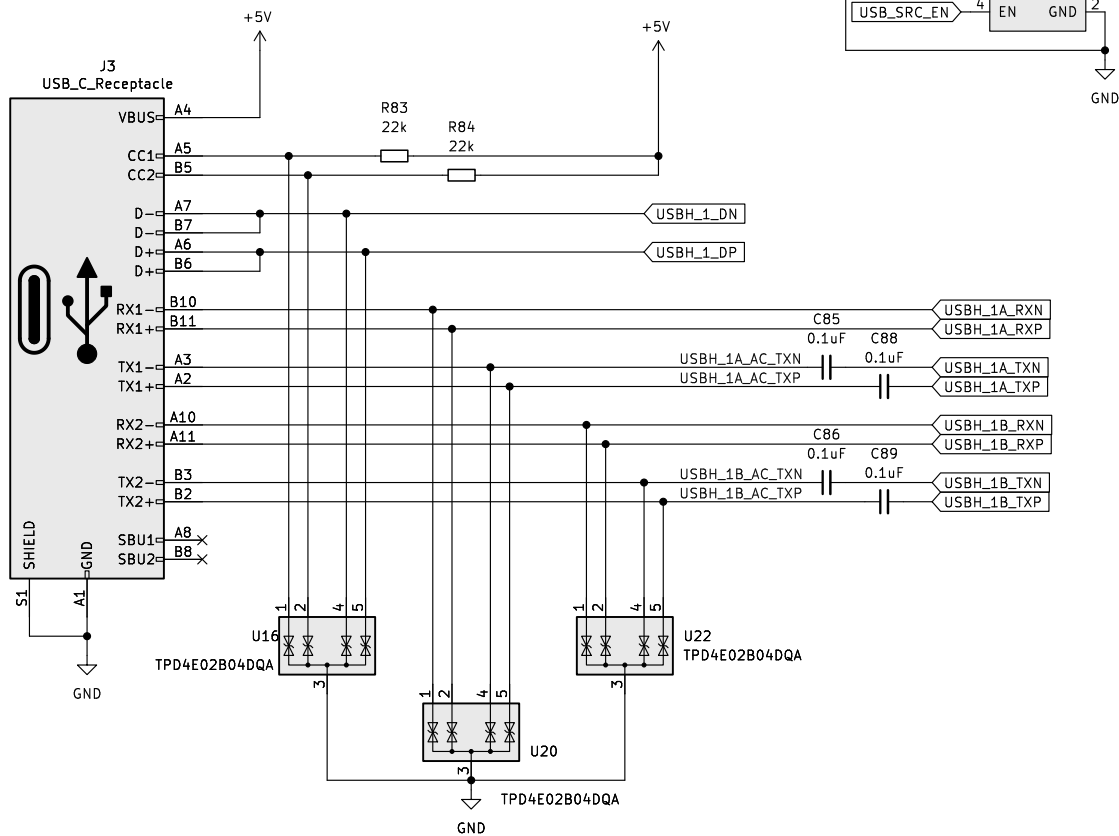
USB Hub



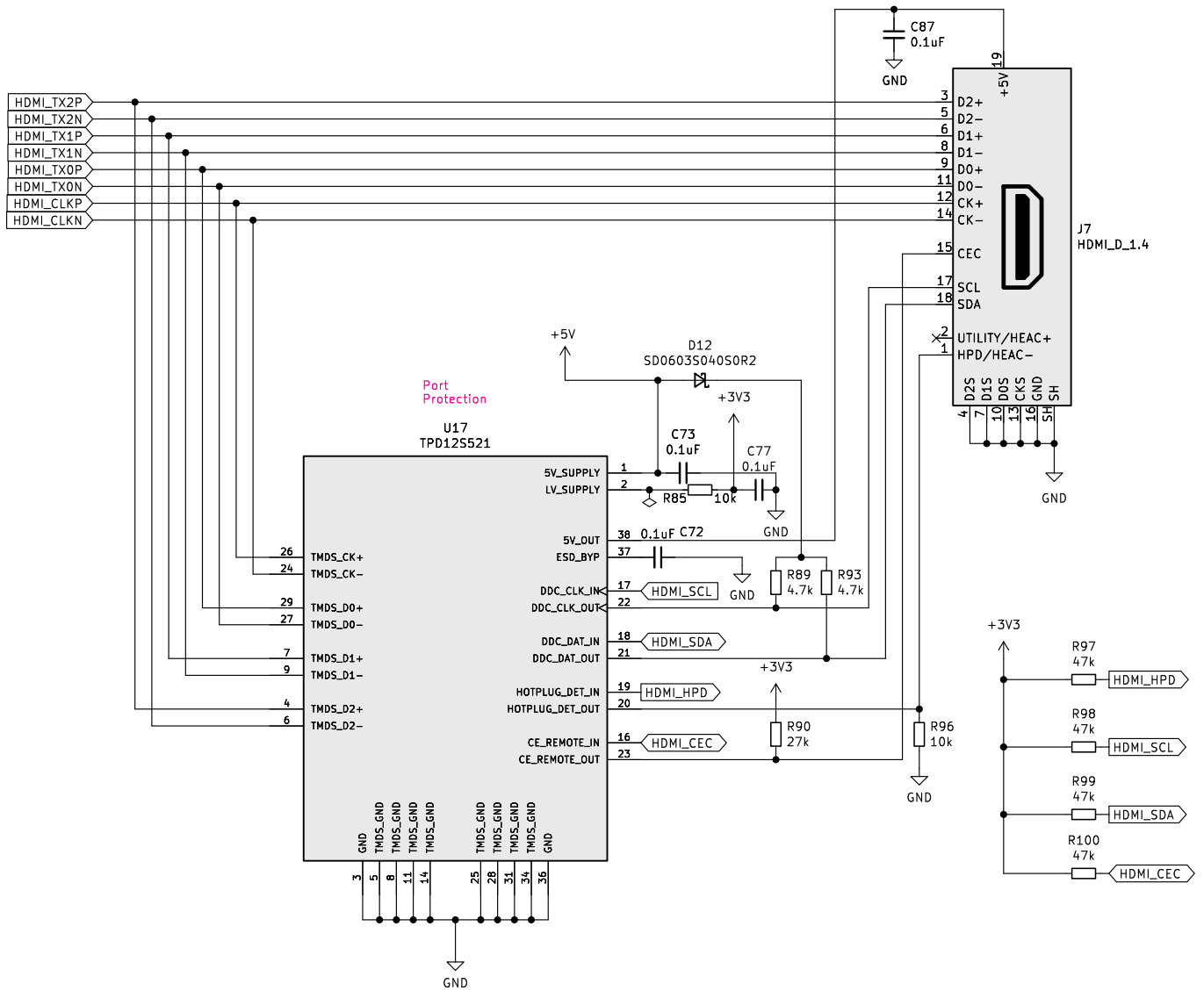
USB-C port 1 with PD charging



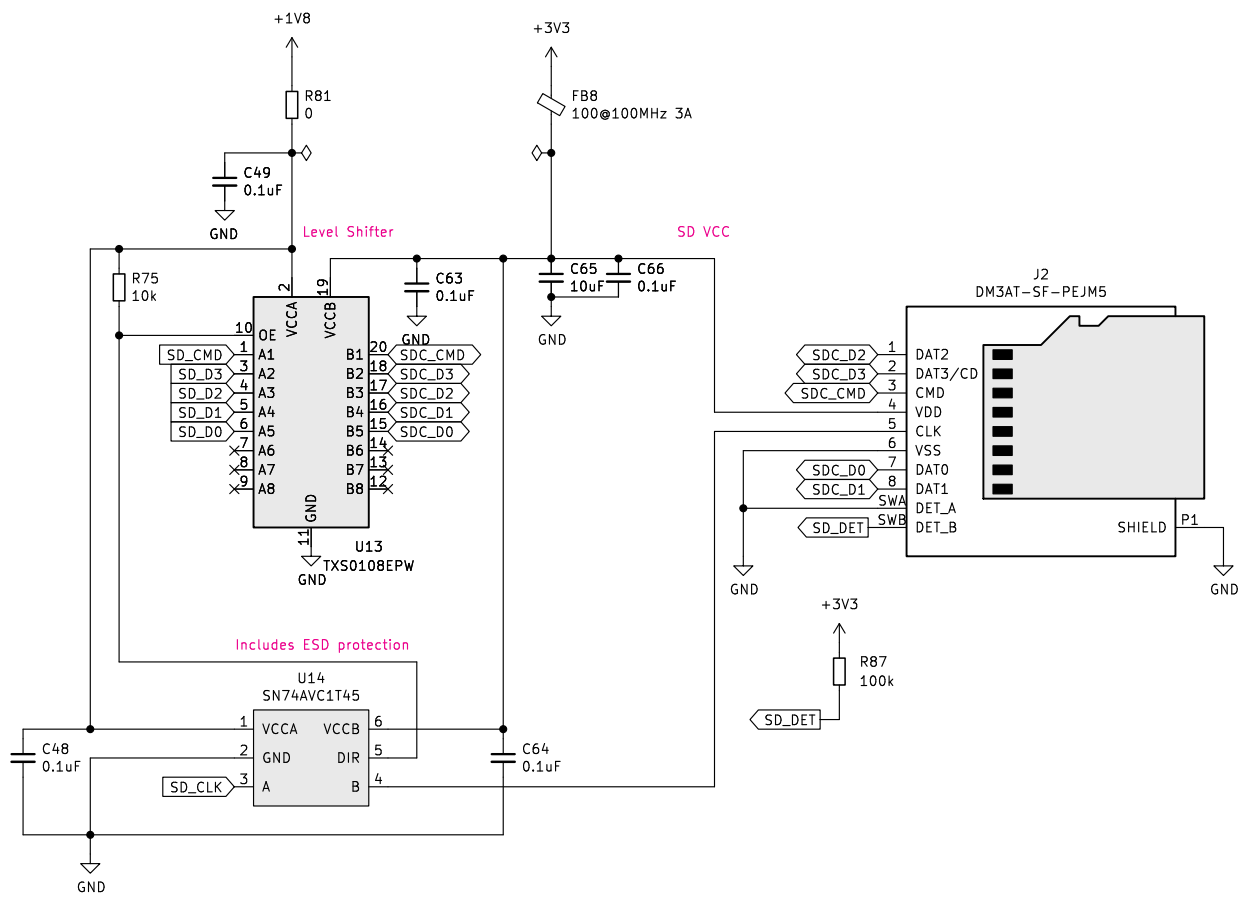
USB-C port 2



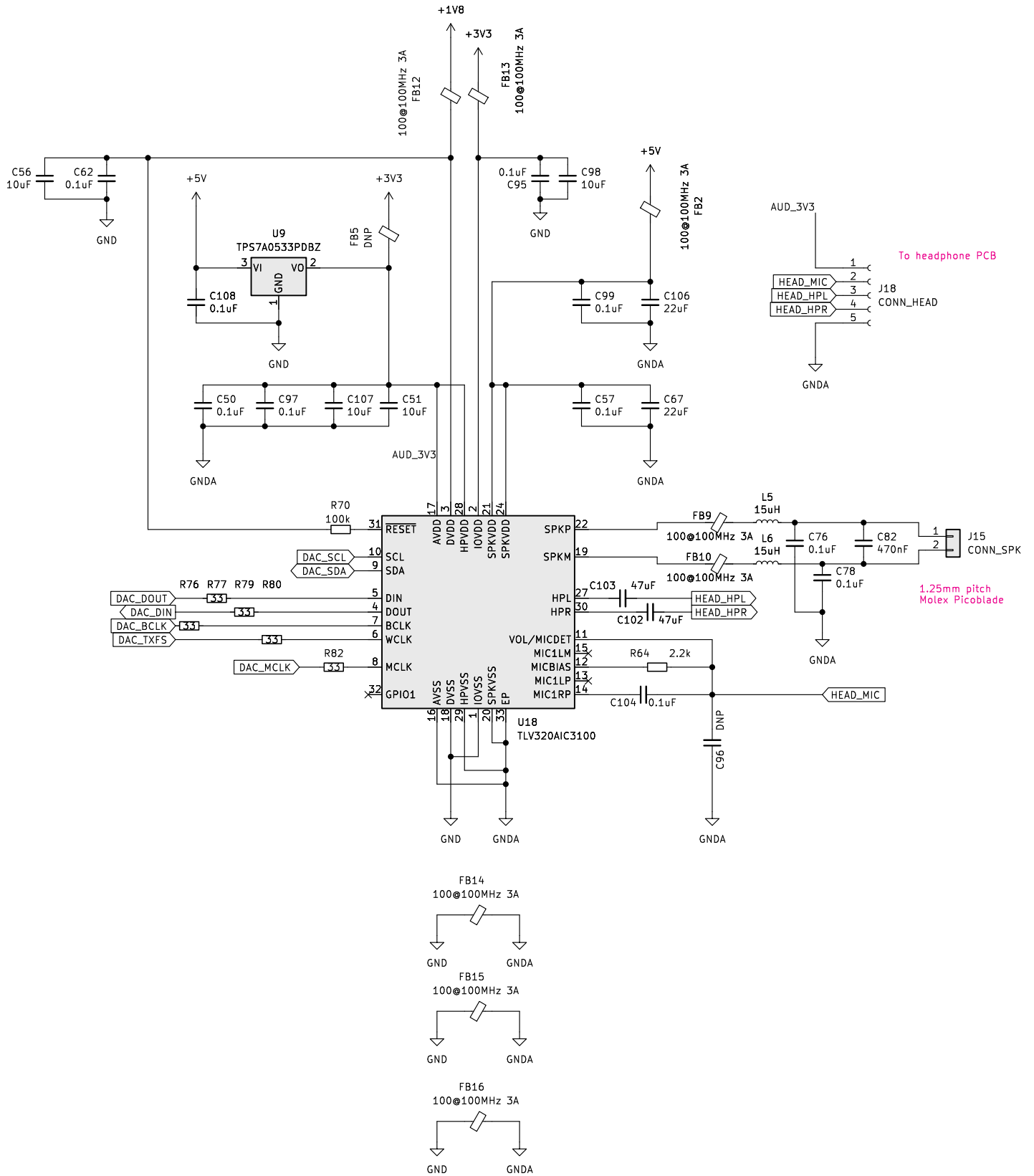
Micro HDMI Port



MicroSD Slot

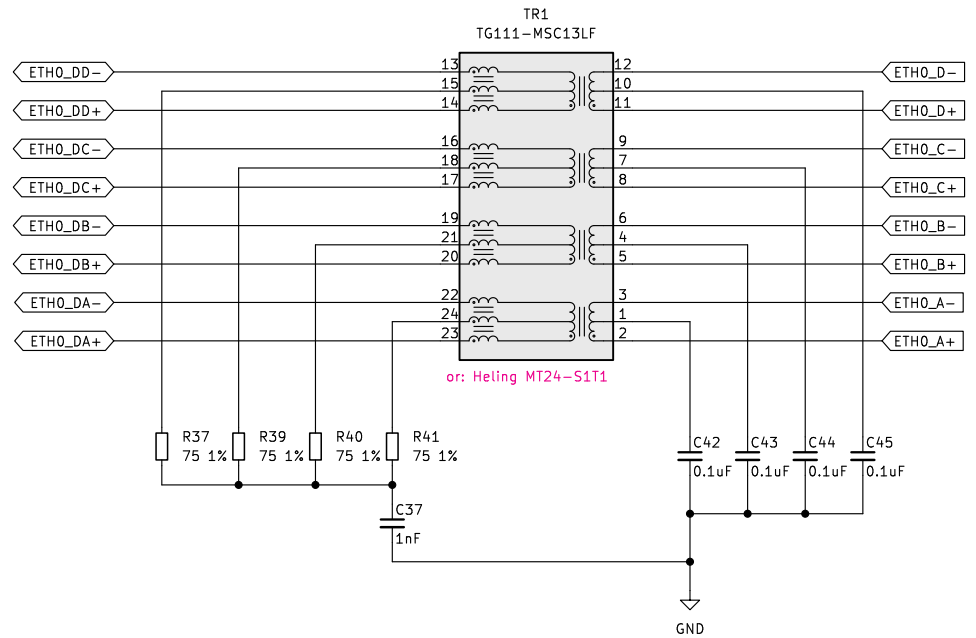
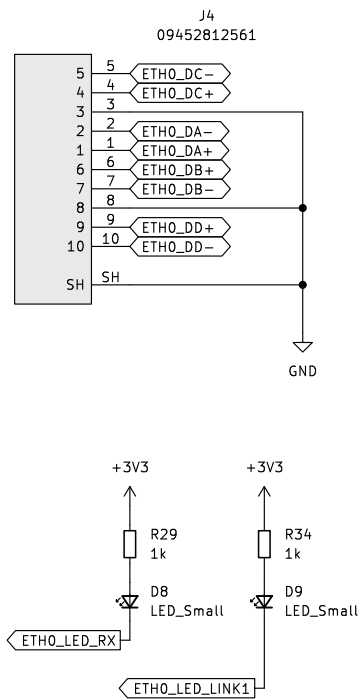


Audio

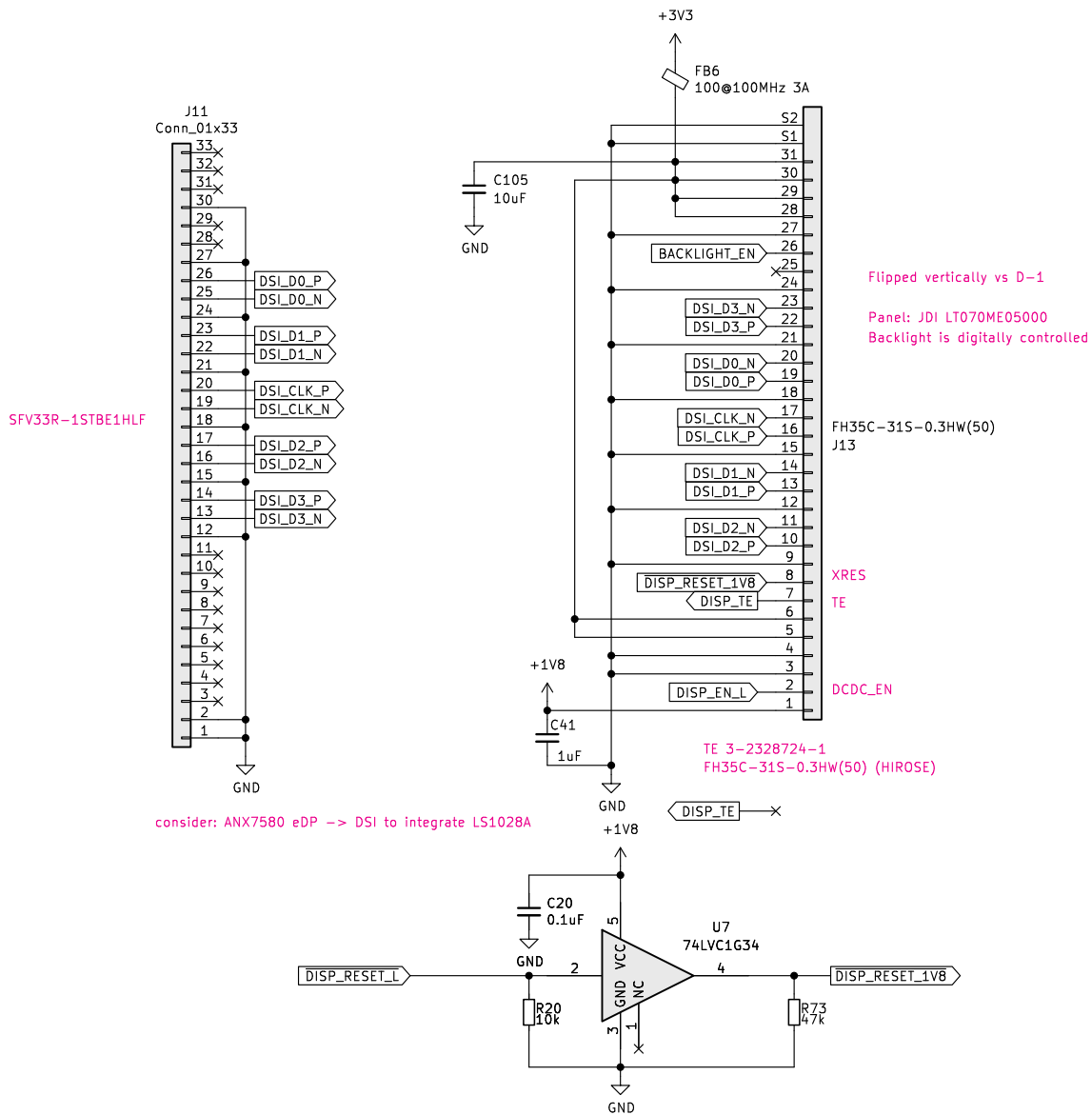


1Gb Ethernet

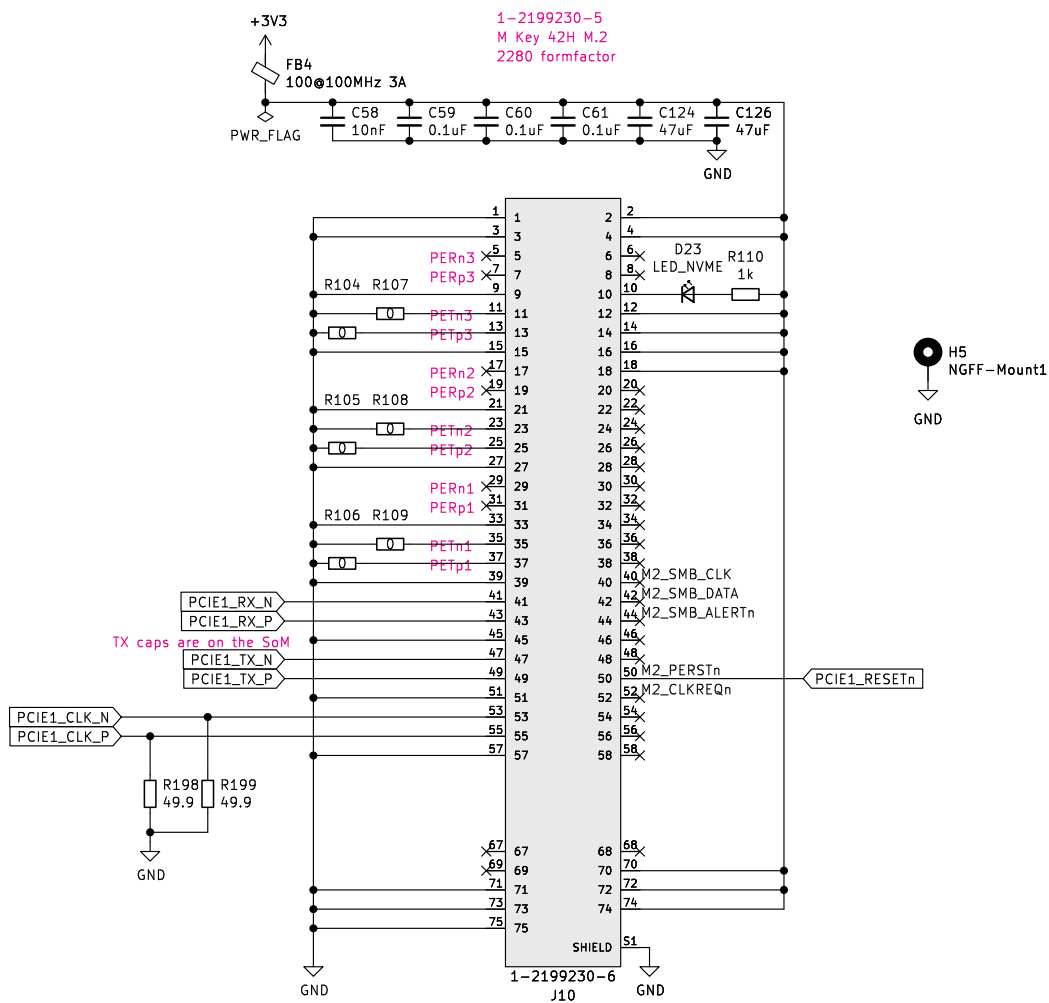
iX Industrial 10B-1



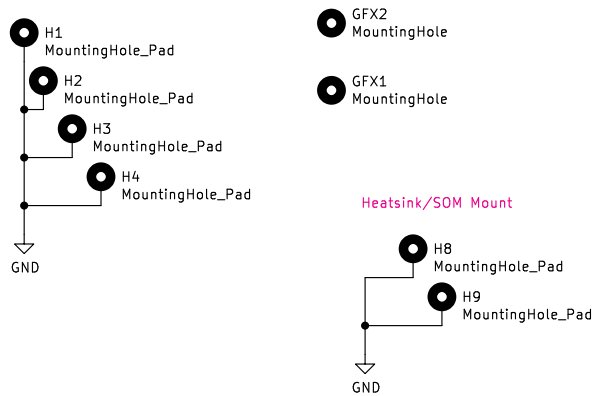
MIPI-DSI / Display Connector



SSD M.2 Card Slot



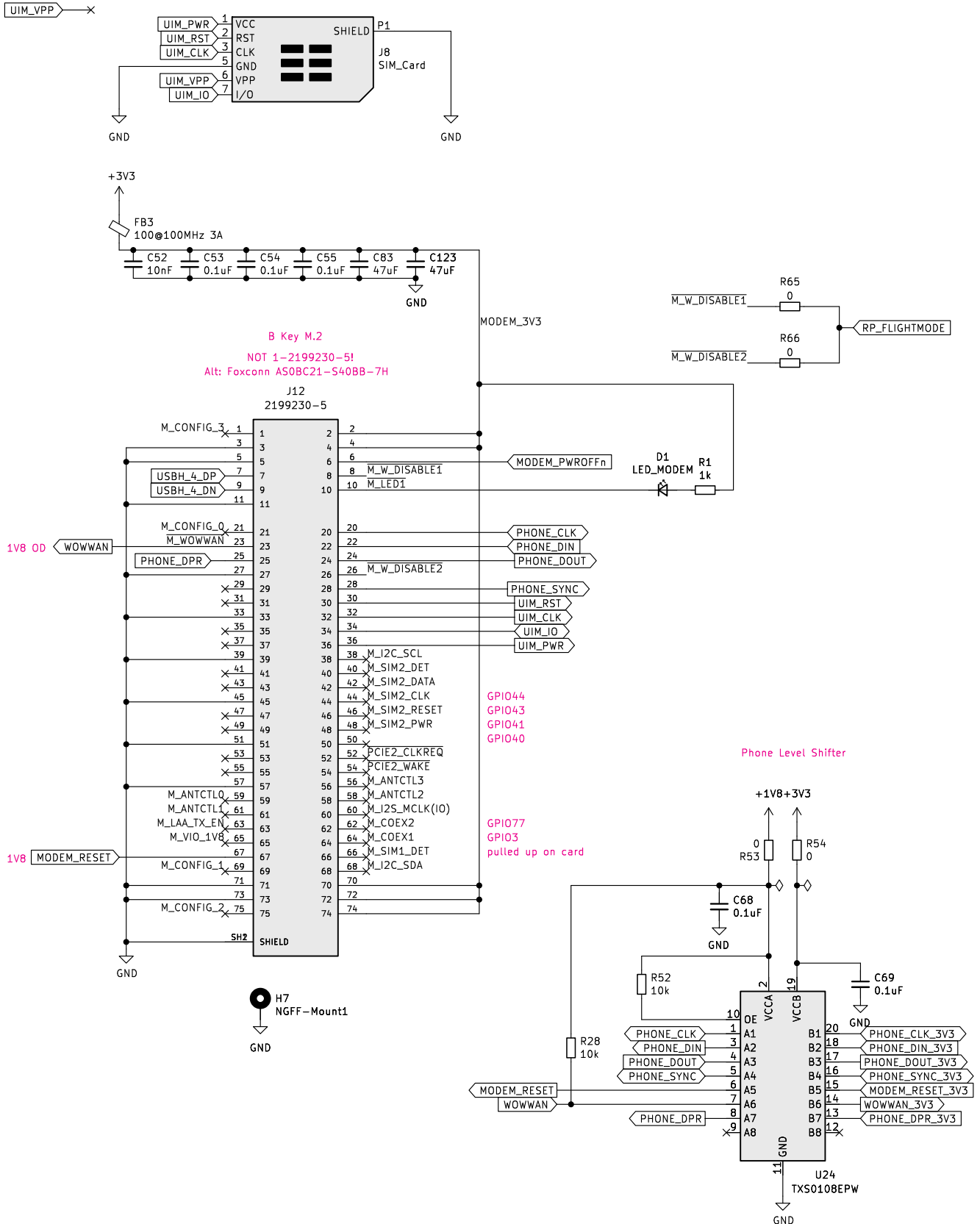
Mounting Holes Etc



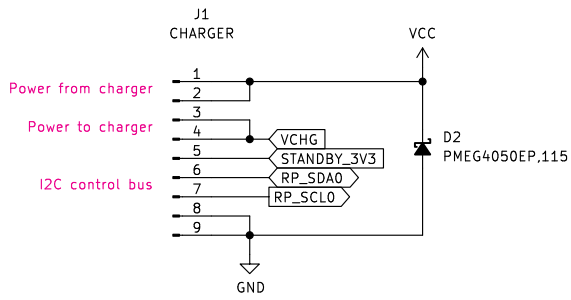
WWAN M.2 Card Slot

Lift up the Receiver

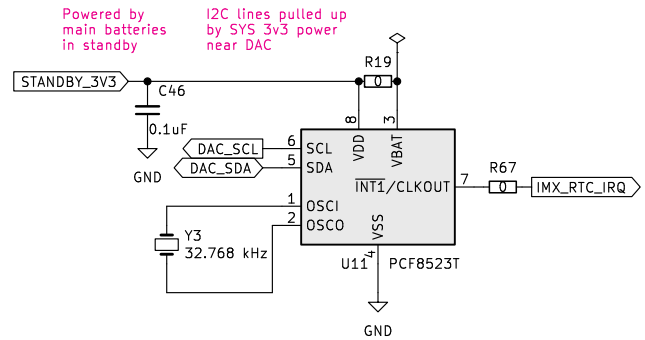
WWAN M.2 Card Slot



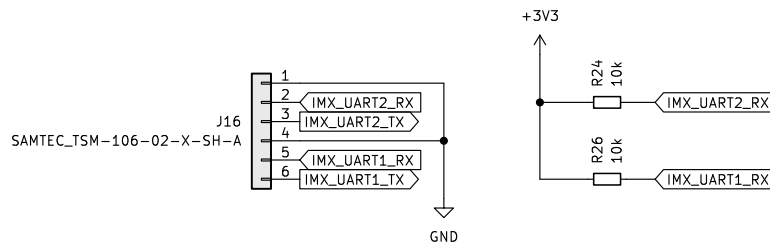
Charger Interface



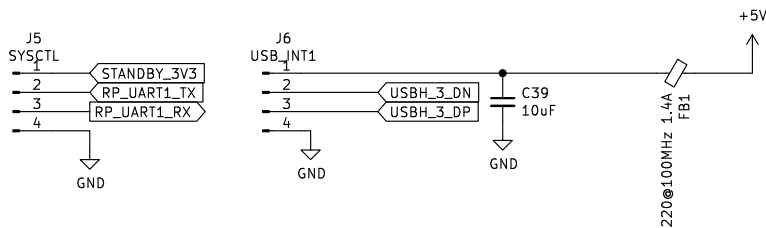
Realtime Clock



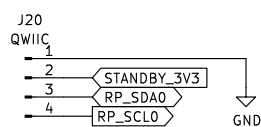
Serial Ports



Internal USB/UART (Keyboard/TB Interface)



Qwiic I2C Interface



Hard Powerdown Interface

