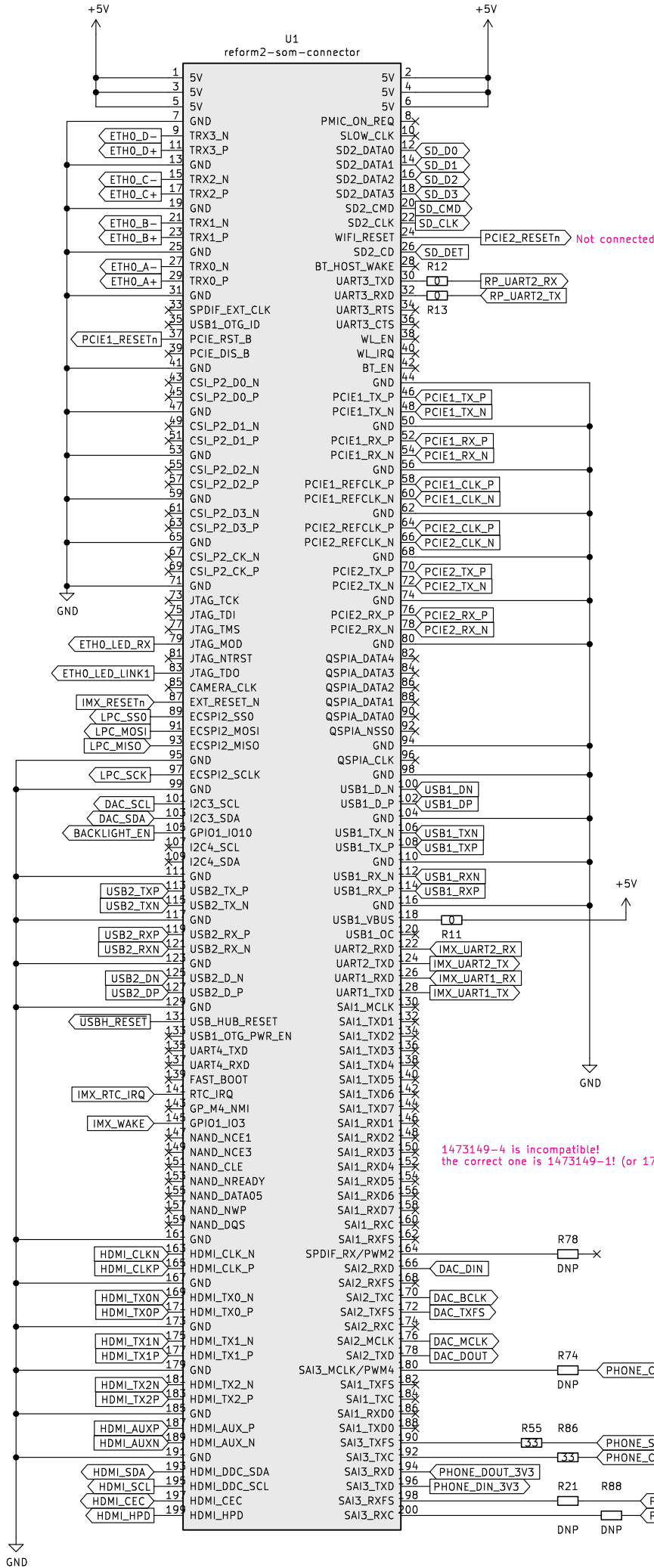


Processor Module Slot



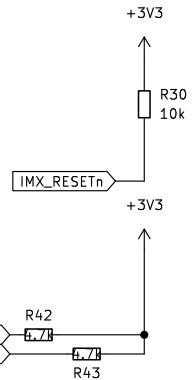
MNT Pocket Reform Motherboard Schematics for PREFFMOB10R01 Operator Handbook Erratum Edition 2024-06-13 MNT Research GmbH <https://mntre.com> License: CERN OHL-S 2.0

- 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

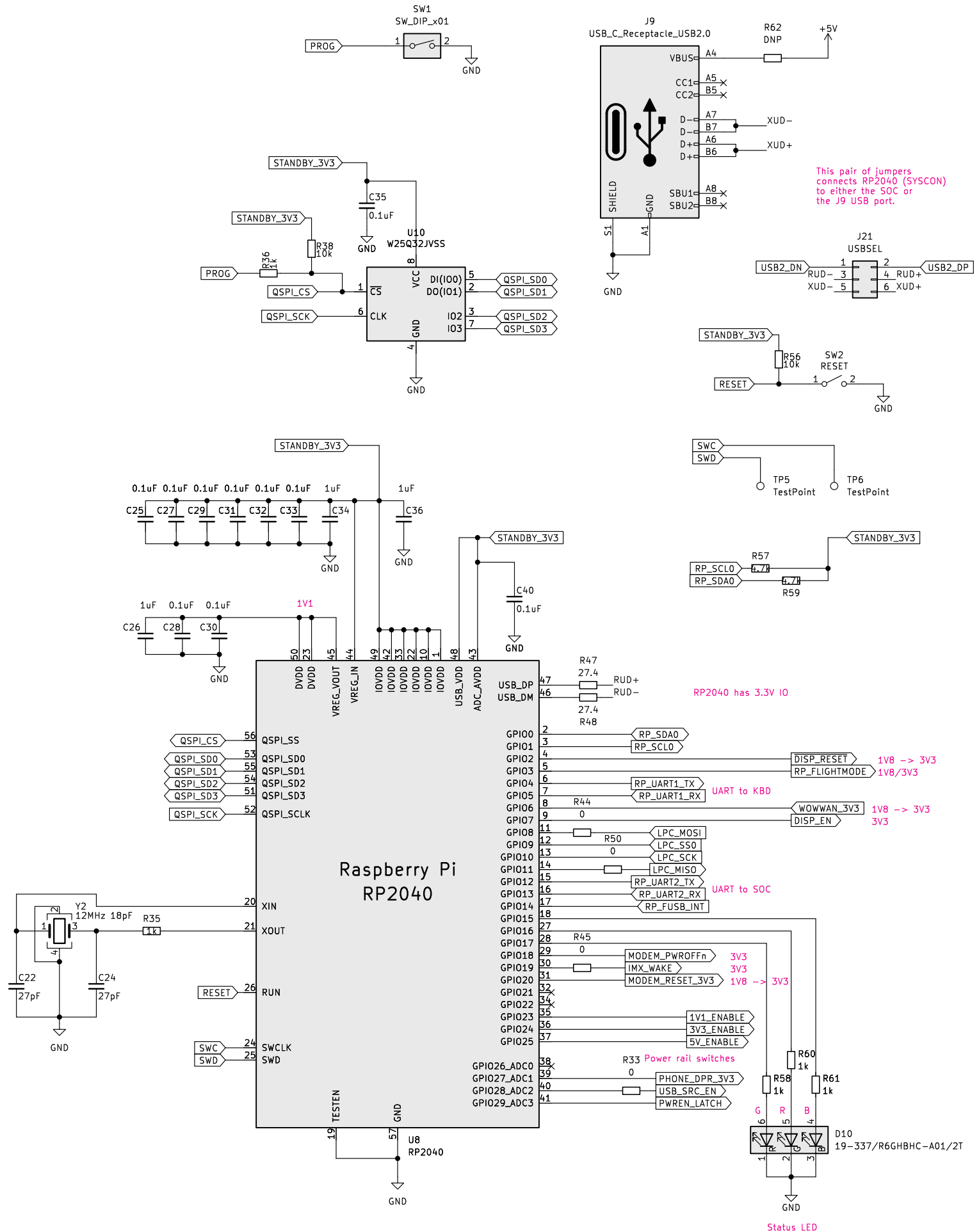
1473149-4 is incompatible!
the correct one is 1473149-1! (or 1717254-1)

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

all clocks can be bidirectional.



System Controller

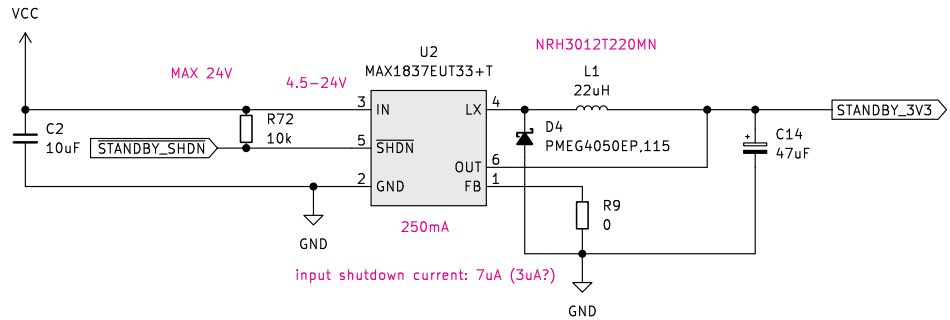
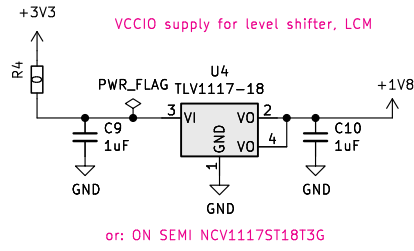


This pair of jumpers connects RP2040 (SYSCON) to either the SOC or the J9 USB port.

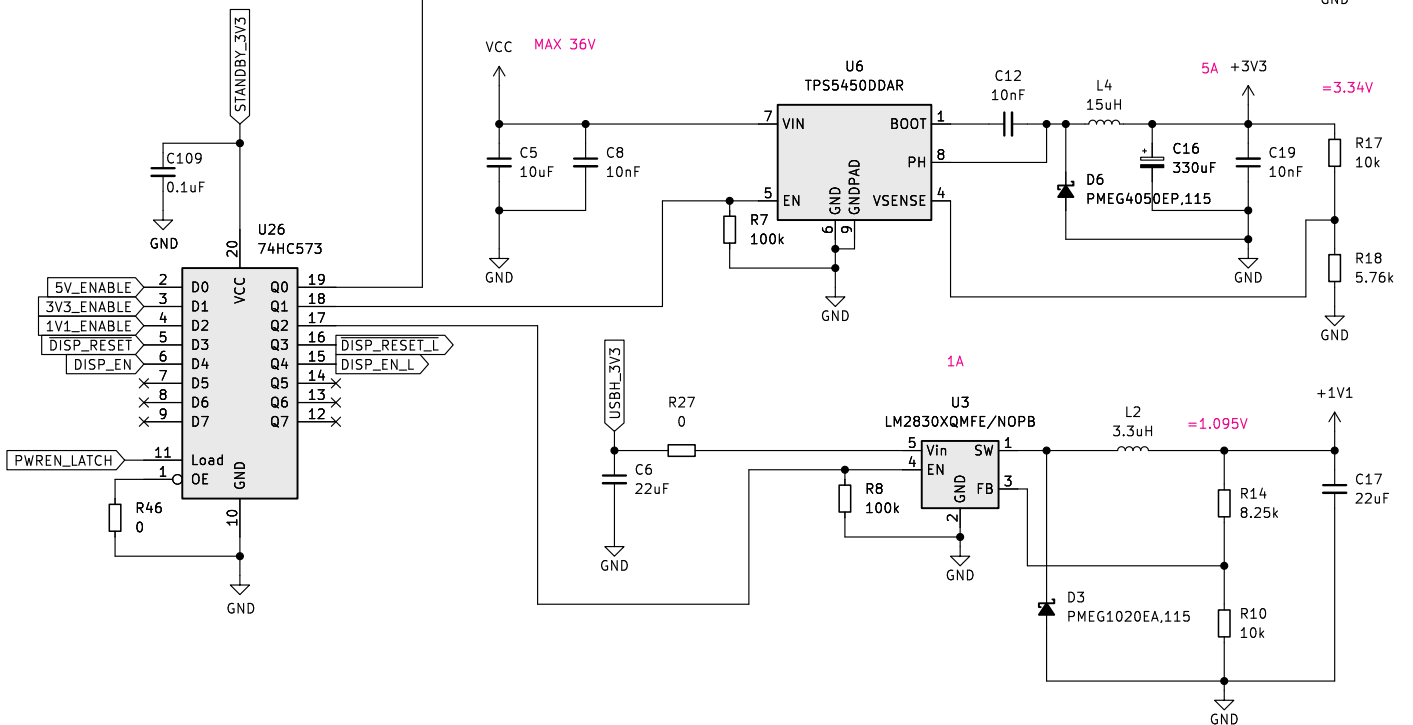
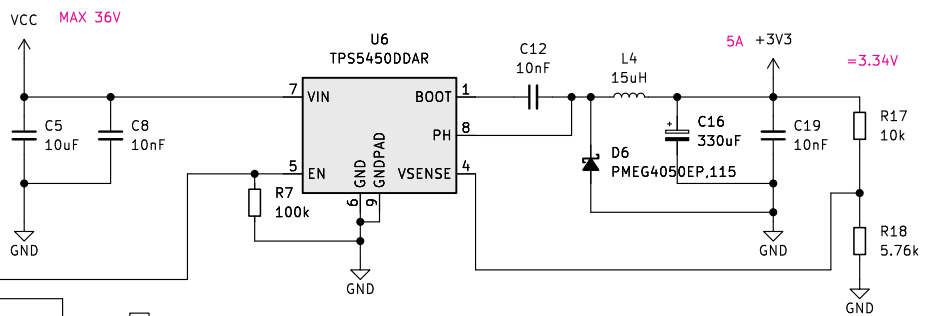
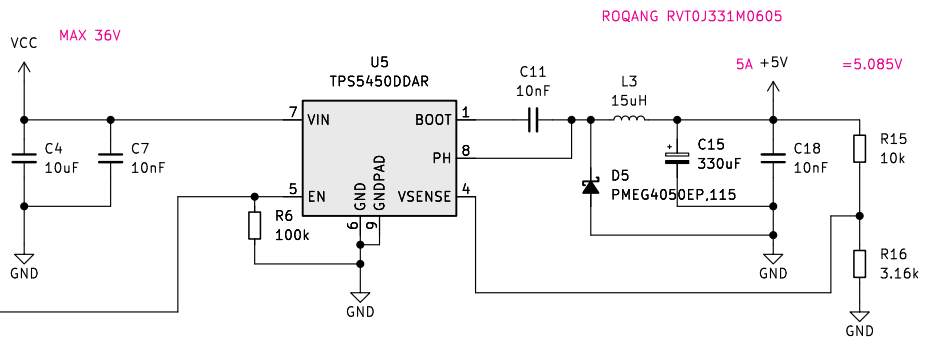
RP2040 has 3.3V IO

Status LED

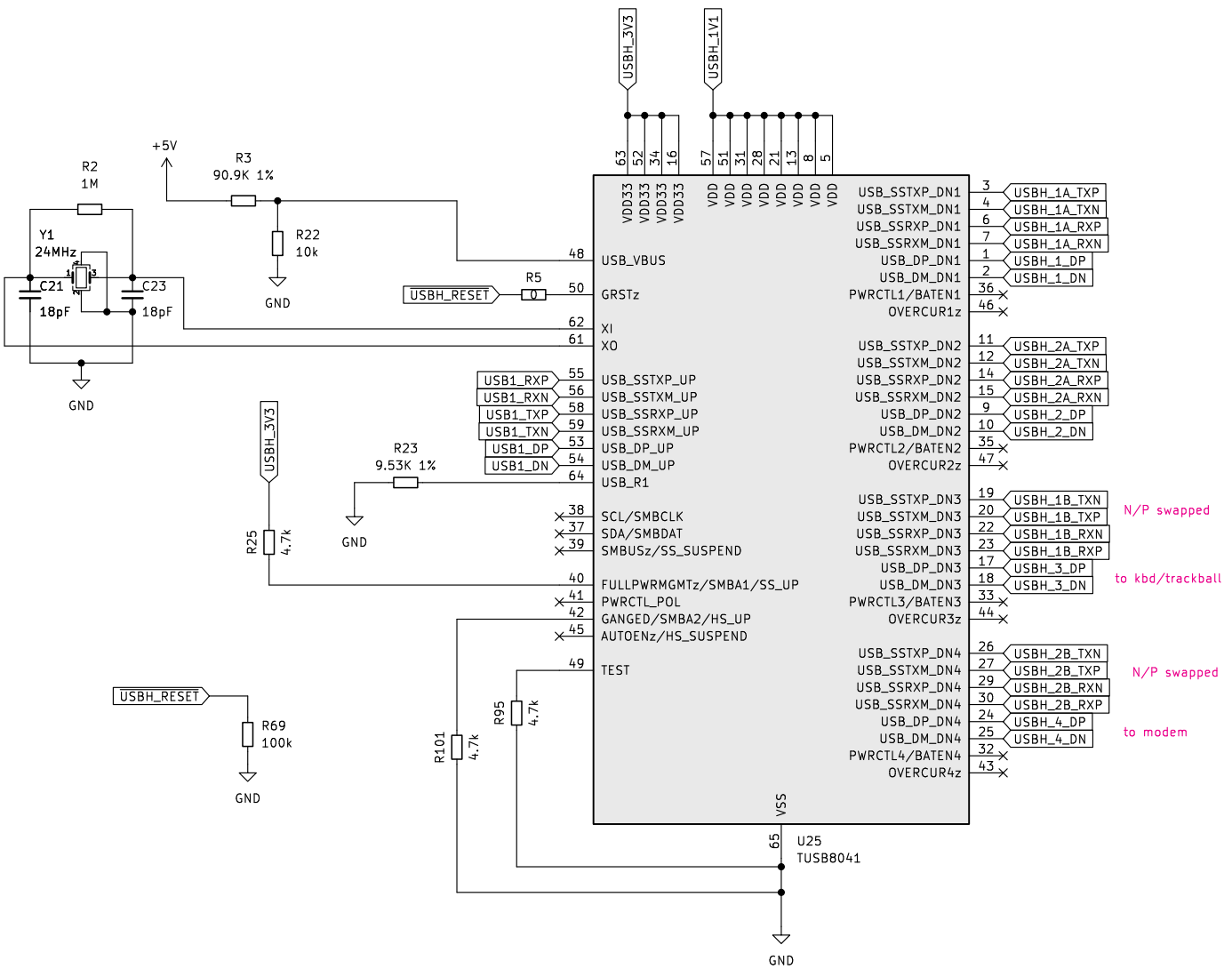
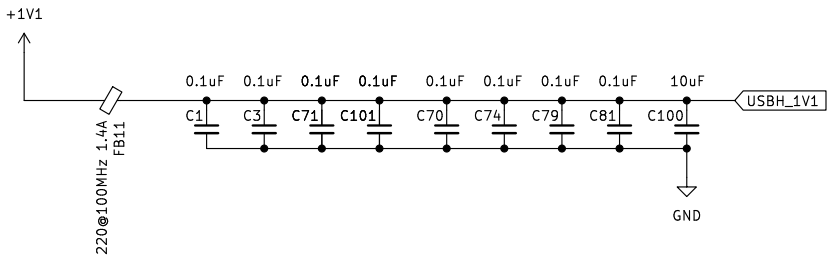
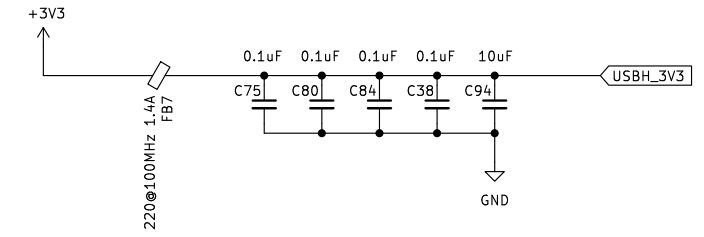
Power Rails



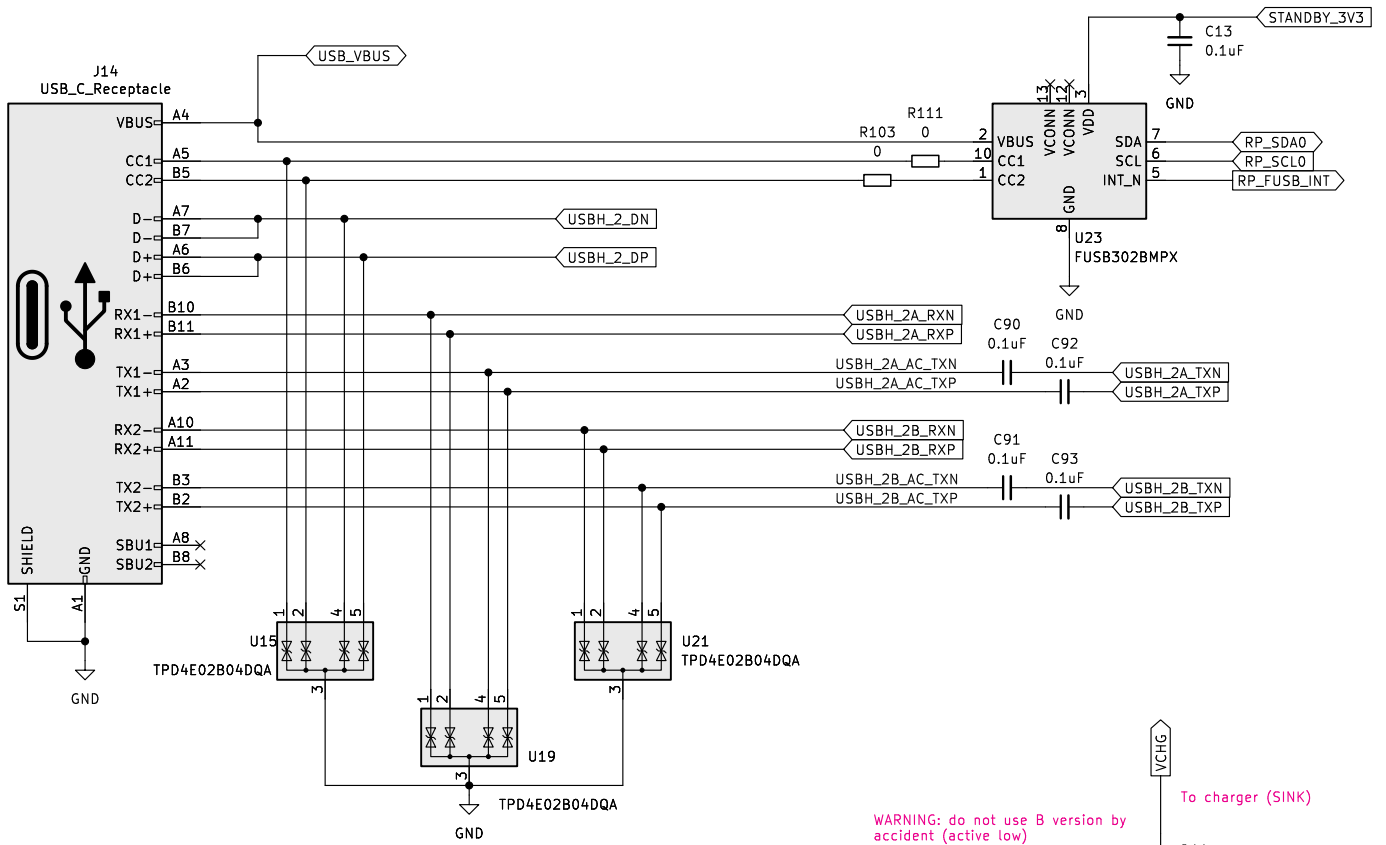
Latch for Enables



USB Hub

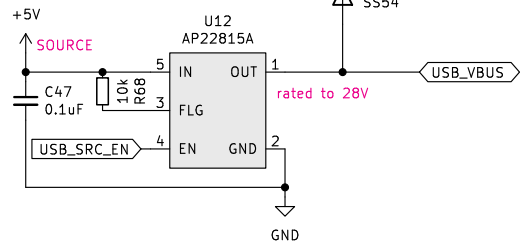


USB-C port 1 with PD charging

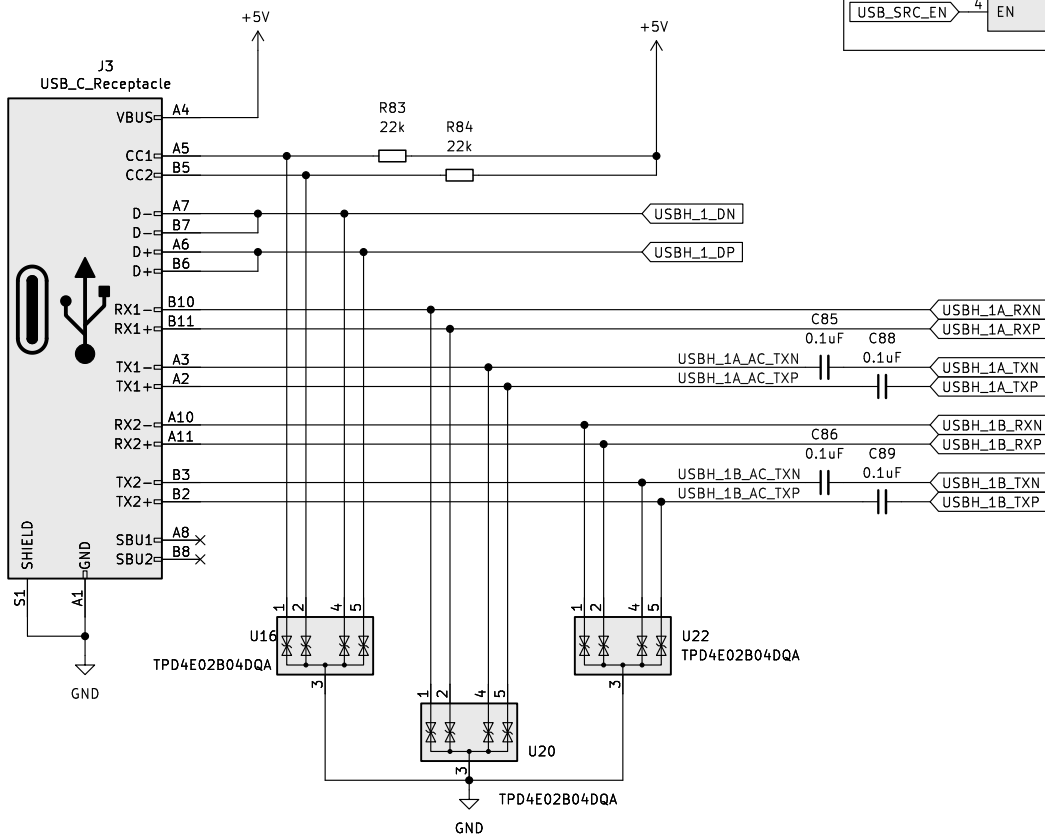


WARNING: do not use B version by accident (active low)

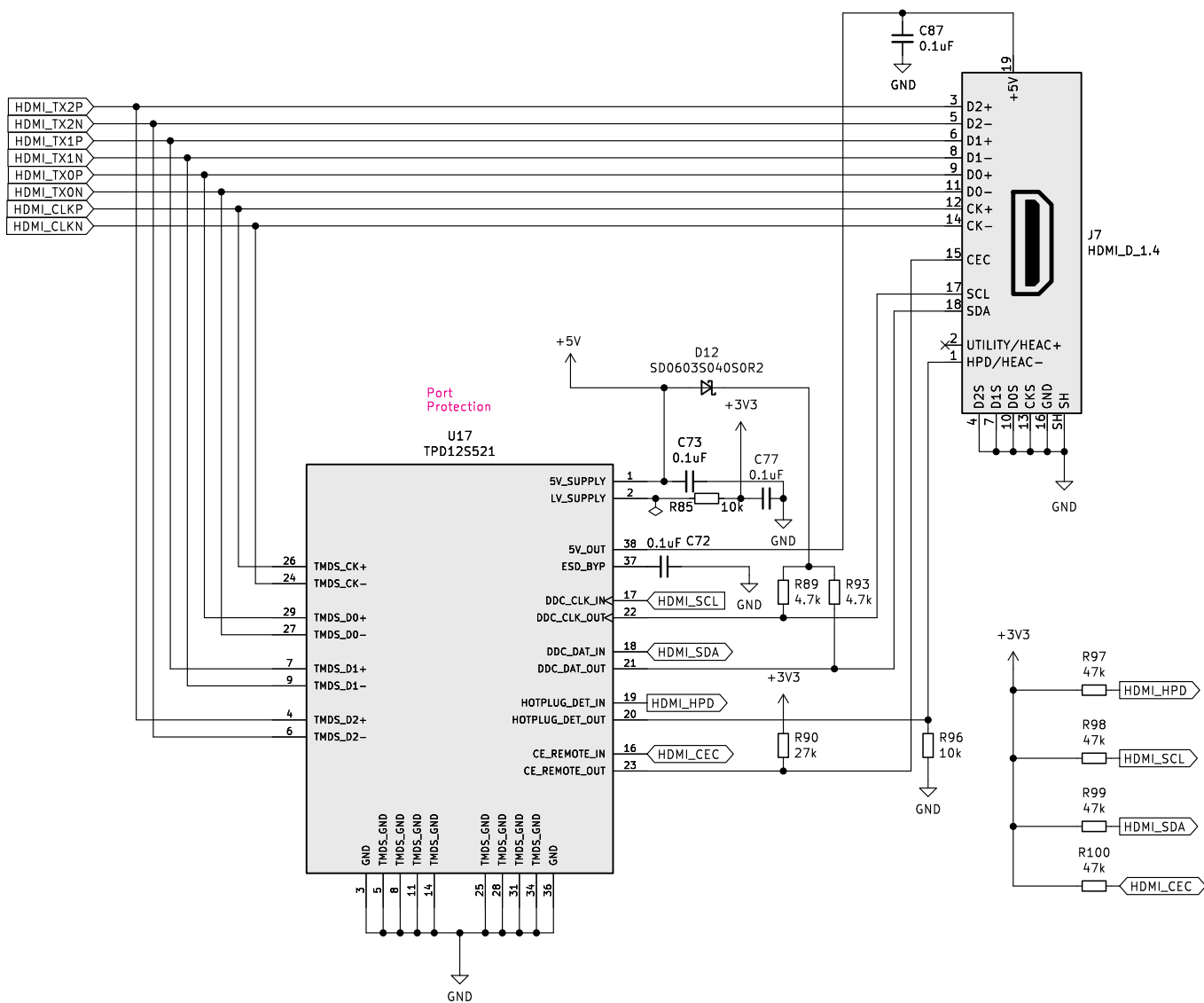
To charger (SINK)



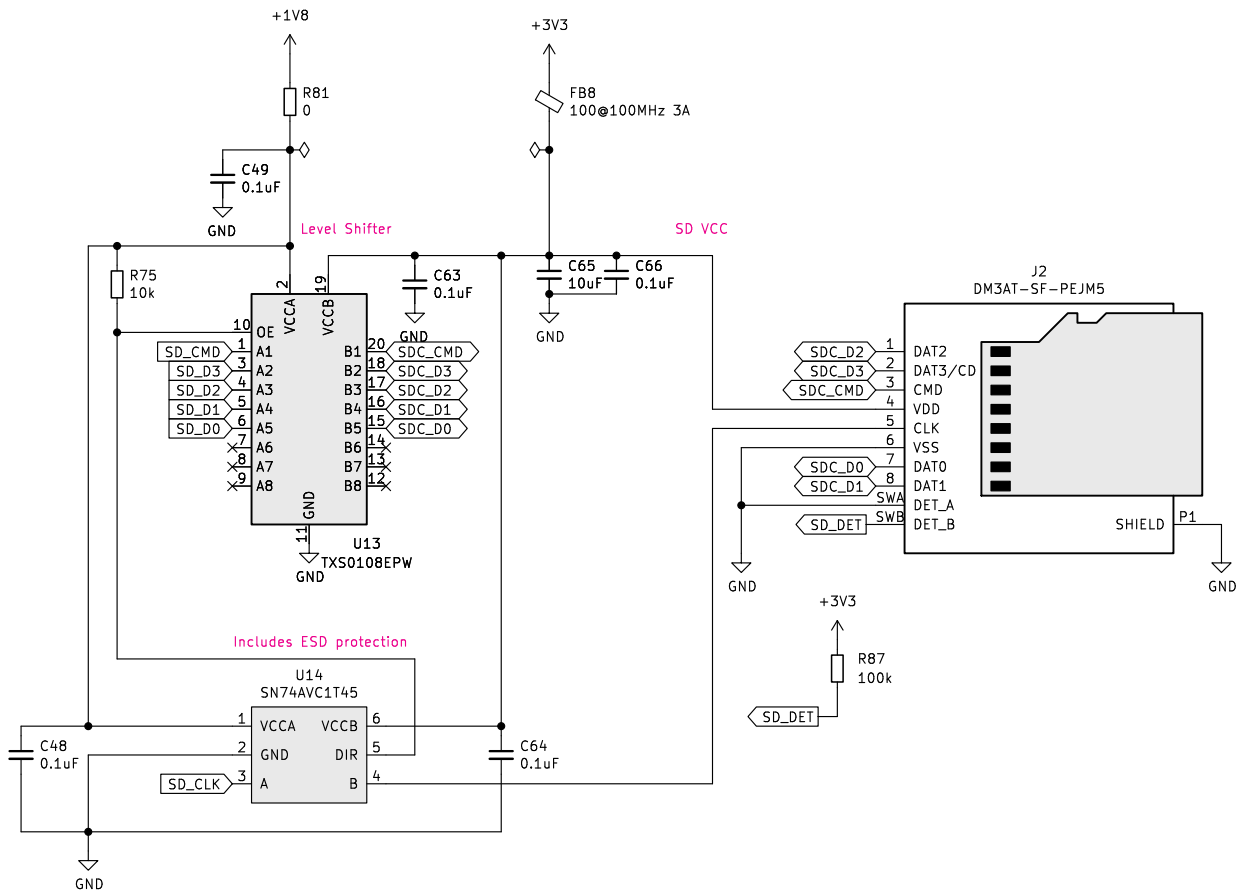
USB-C port 2



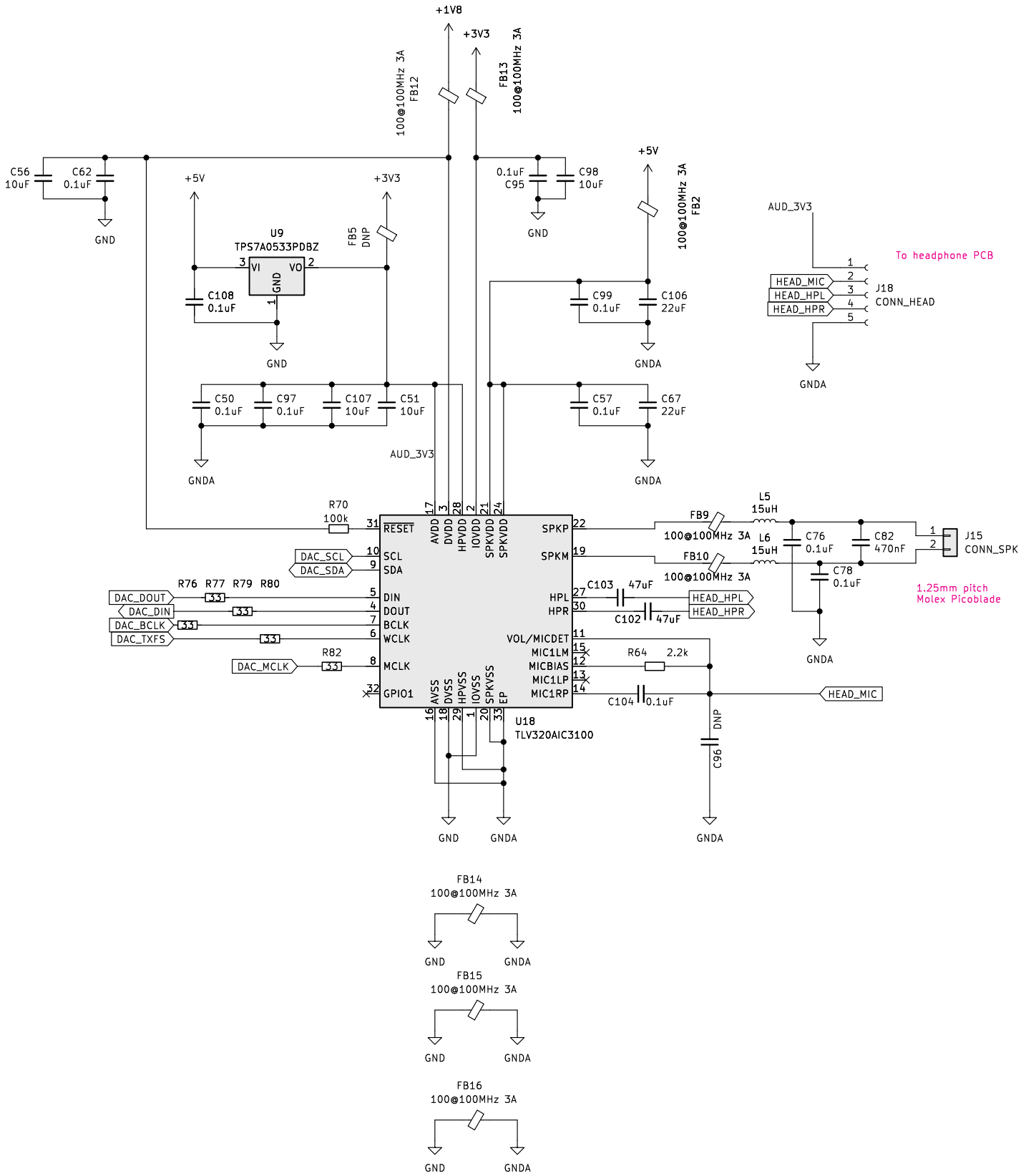
Micro HDMI Port



MicroSD Slot

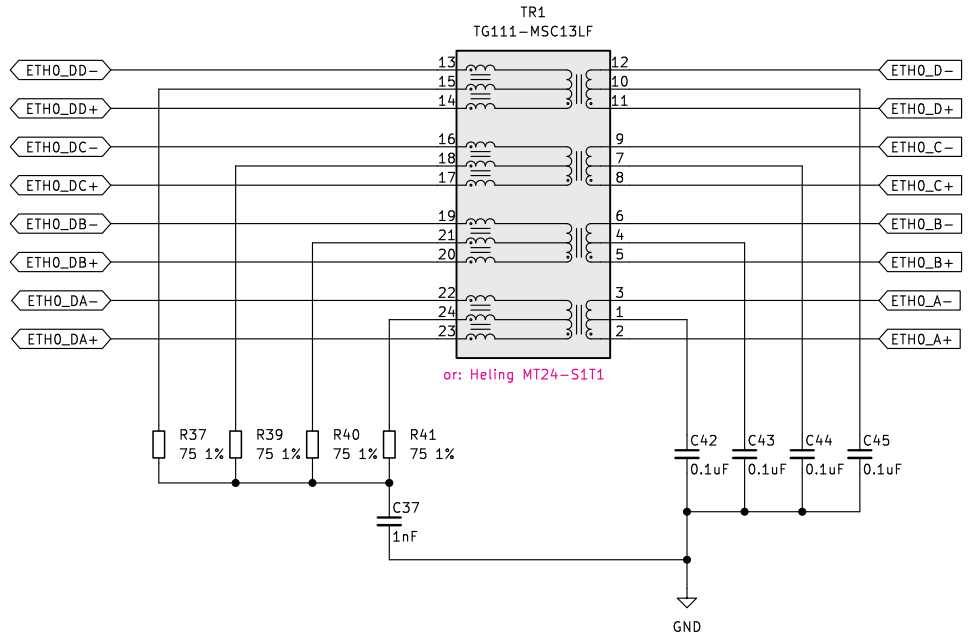
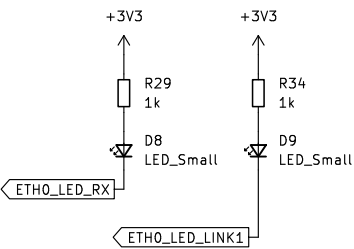
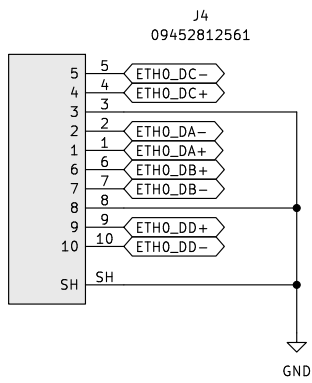


Audio

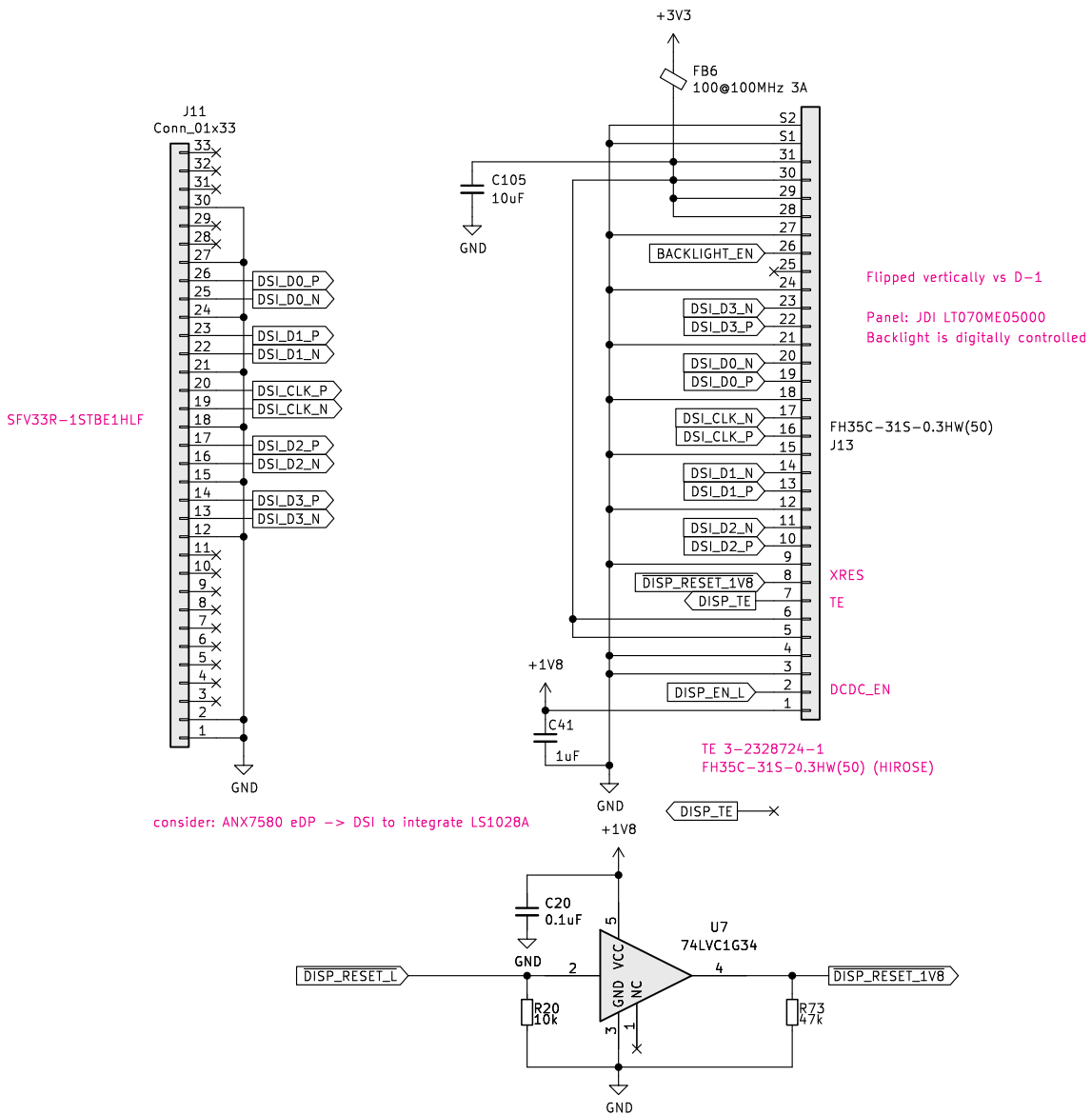


1Gb Ethernet

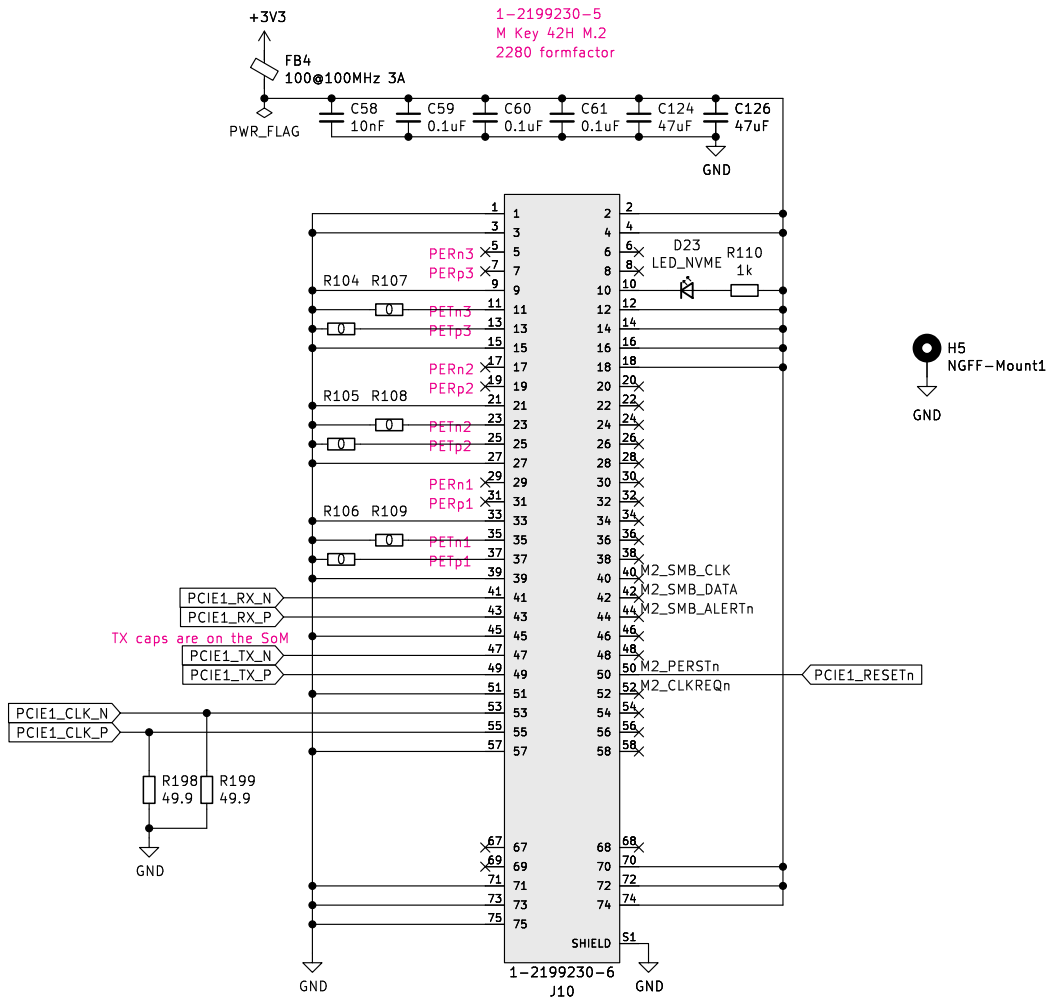
ix Industrial 10B-1



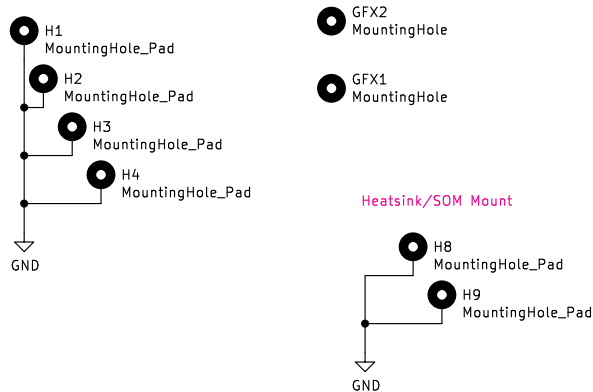
MIPI-DSI / Display Connector



SSD M.2 Card Slot



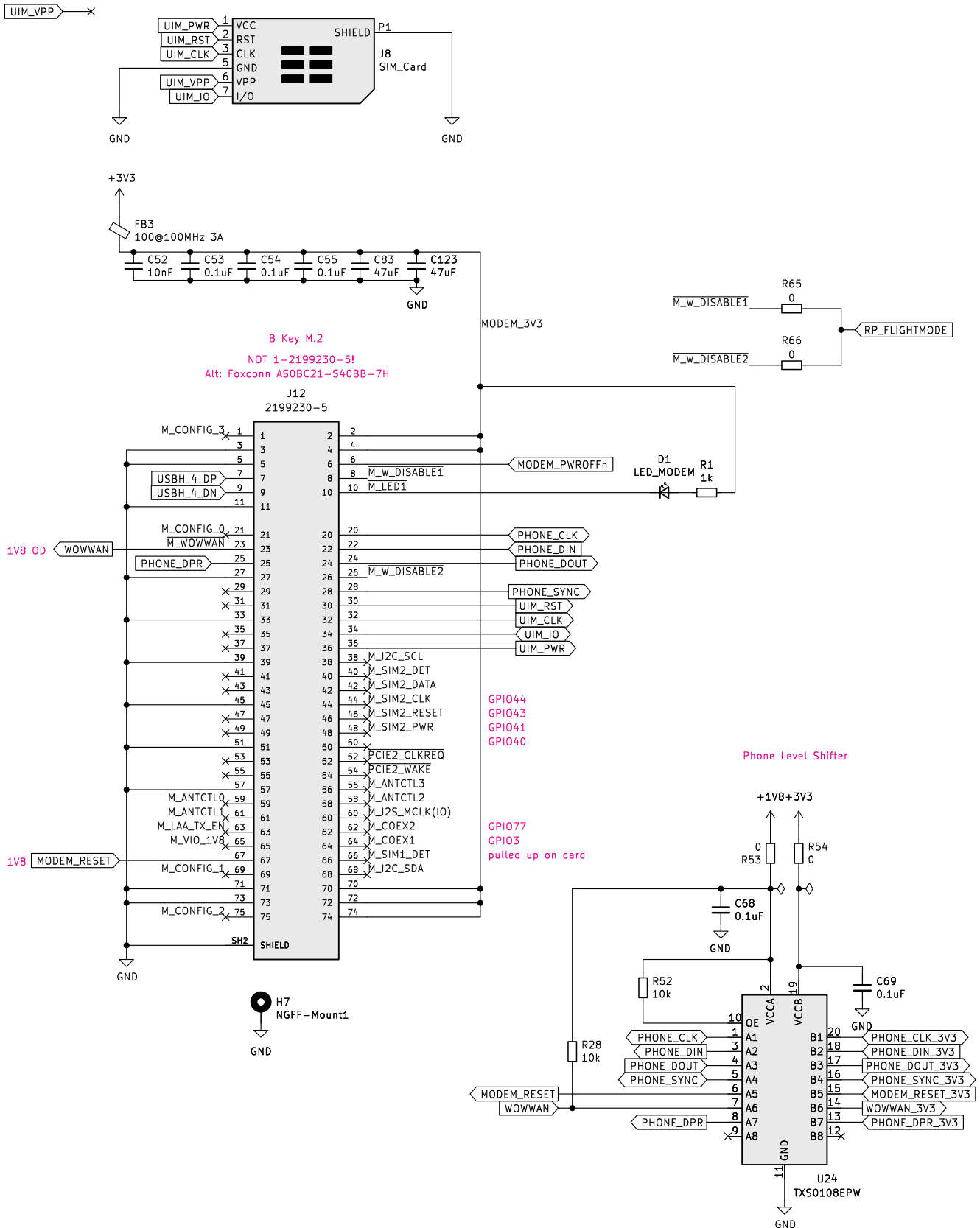
Mounting Holes Etc



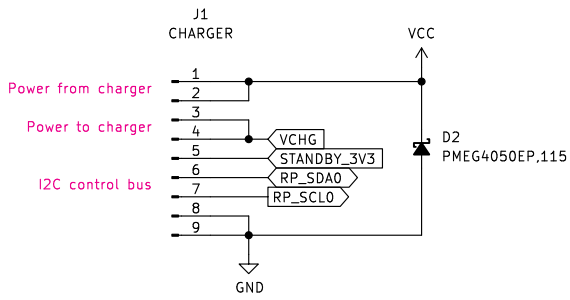
WWAN M.2 Card Slot

Lift up the Receiver

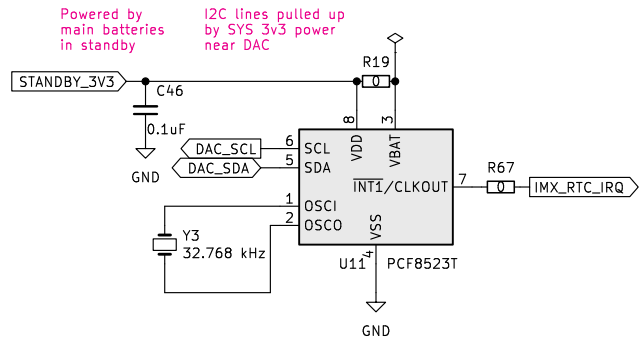
WWAN M.2 Card Slot



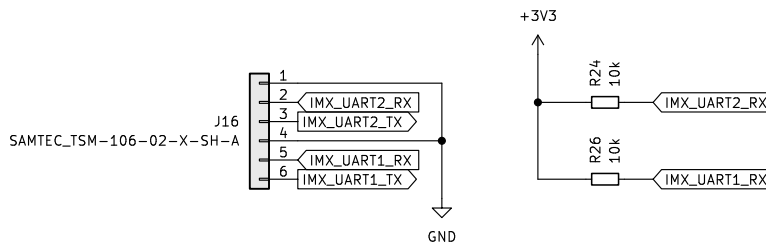
Charger Interface



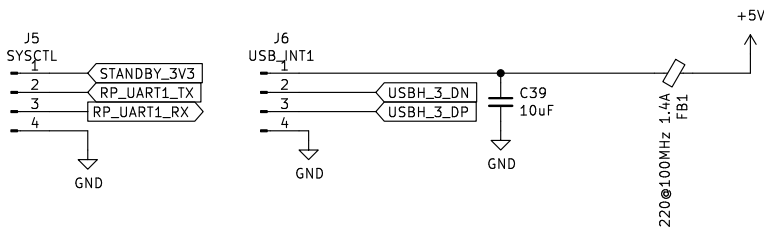
Realtime Clock



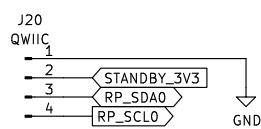
Serial Ports



Internal USB/UART (Keyboard/TB Interface)



Qwiic I2C Interface



Hard Powerdown Interface

