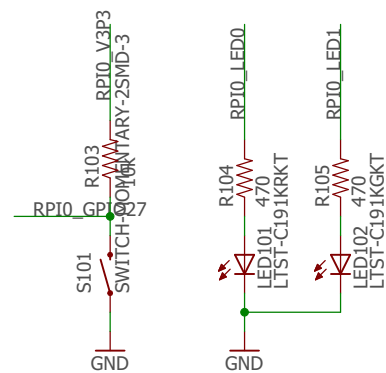
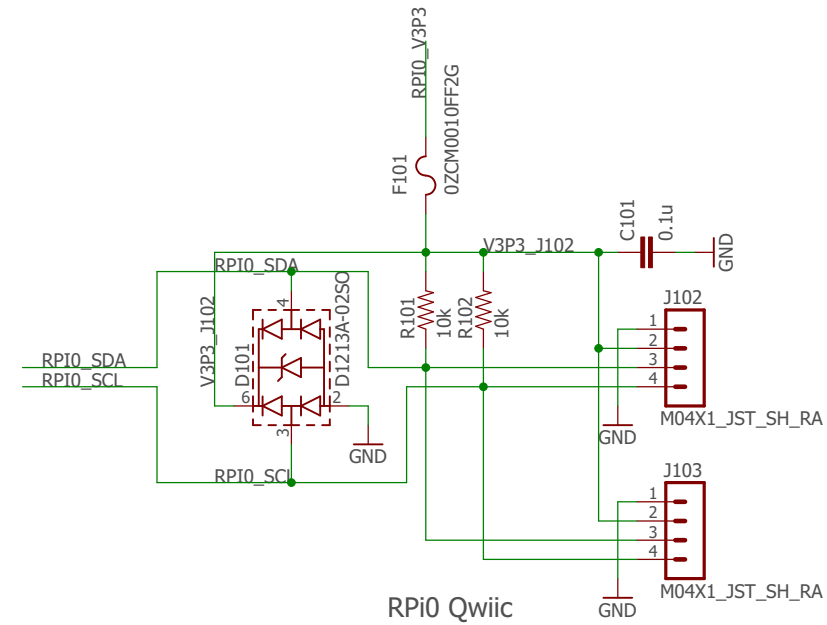
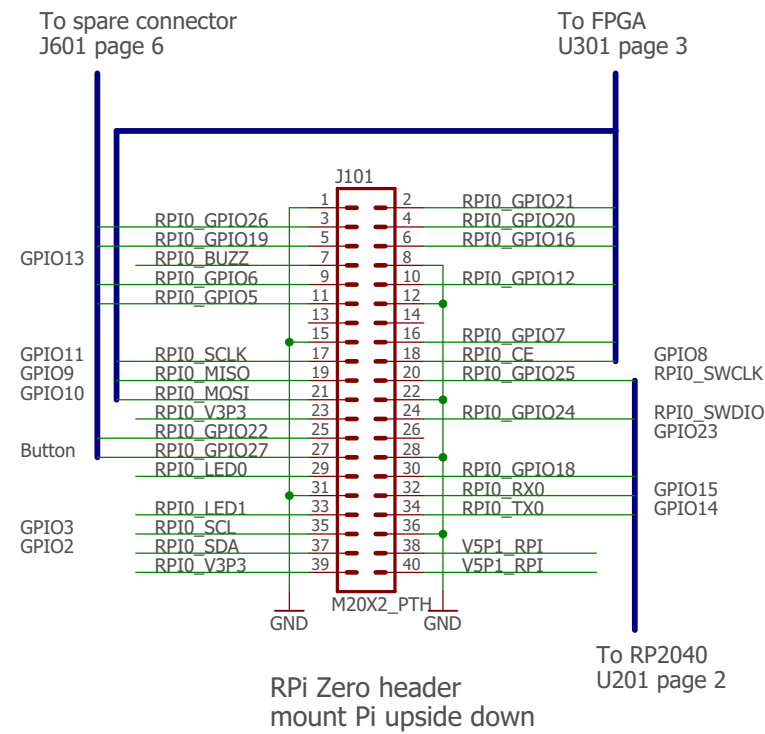
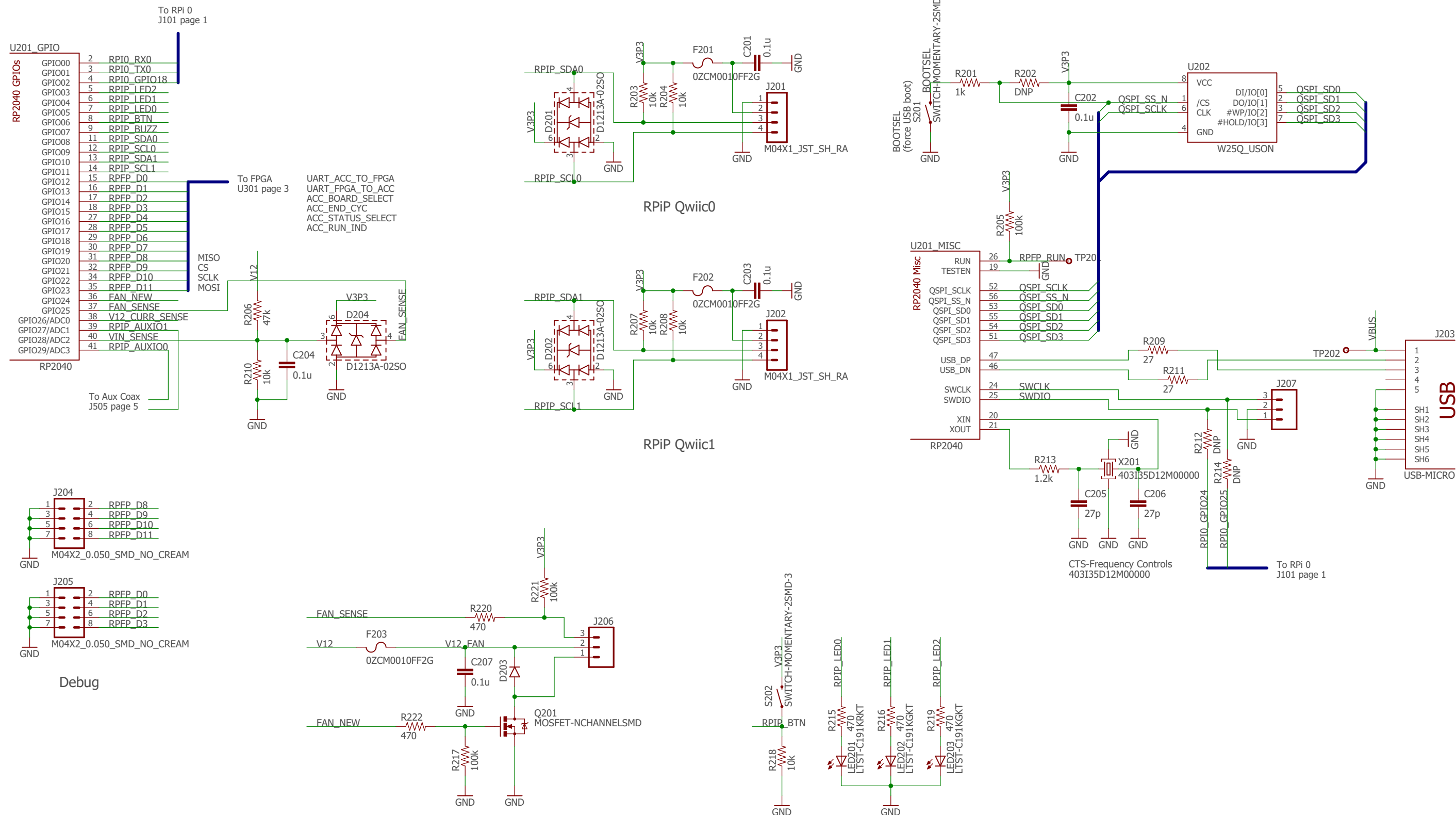


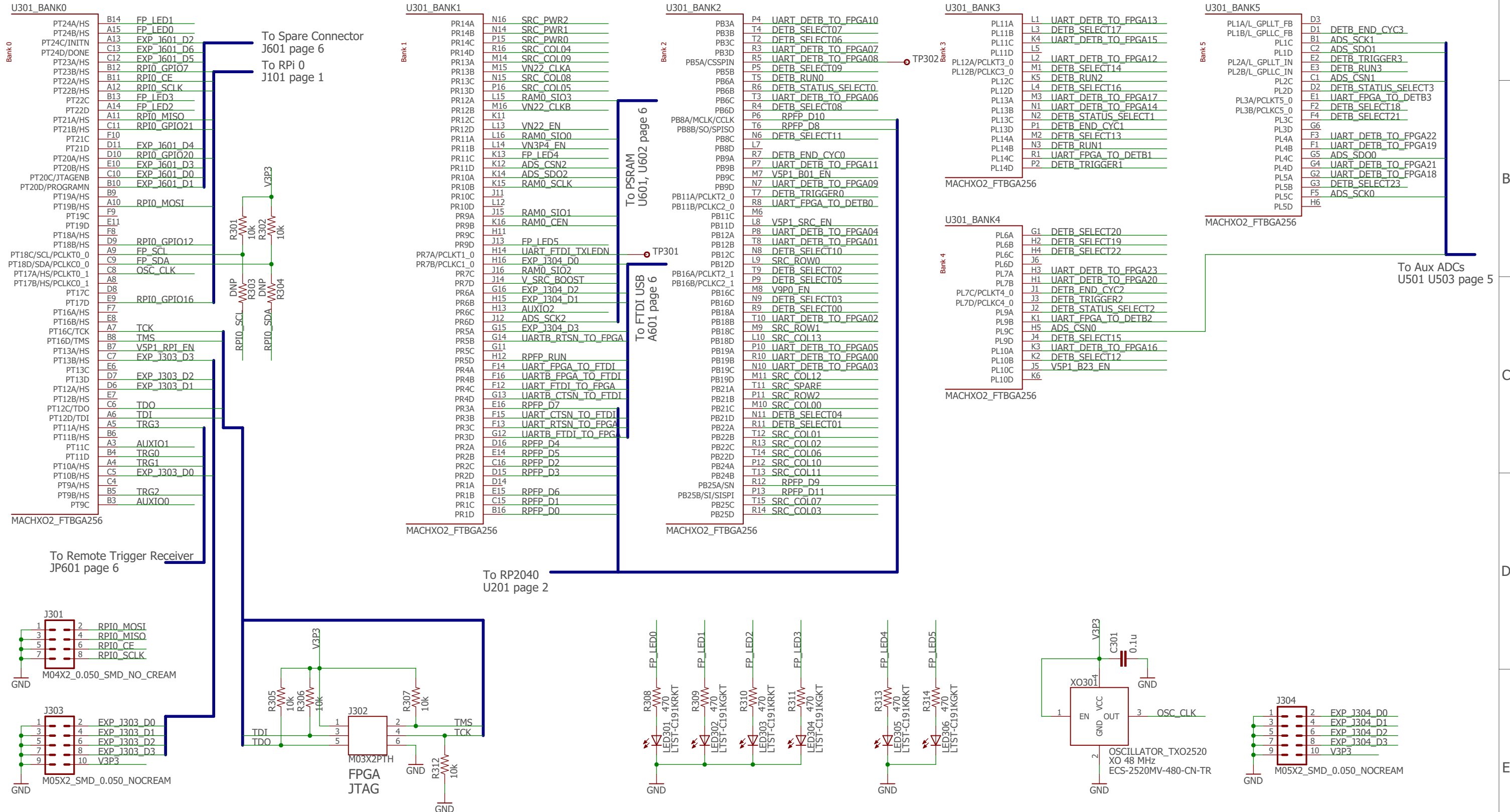
RPi Zero 2 W



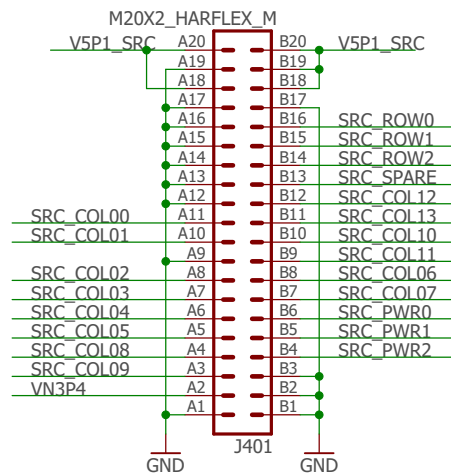
RP2040 MCU (RPi Pico)



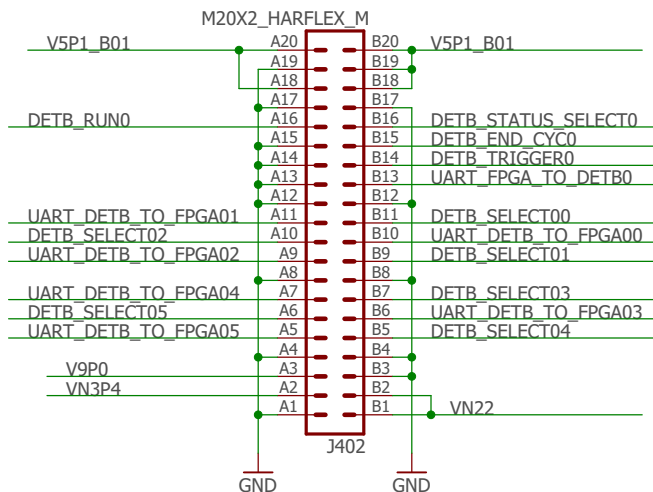
FPGA



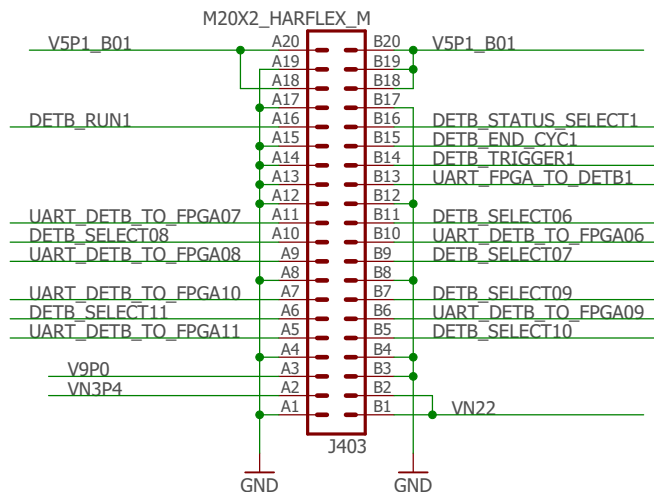
Backplane Connectors



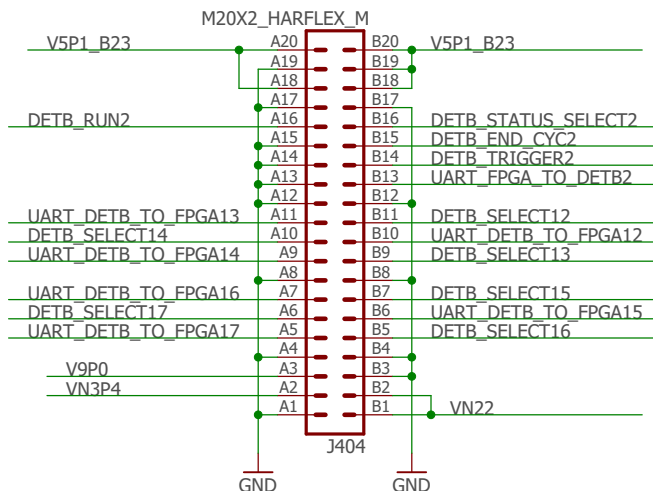
Source Backplane



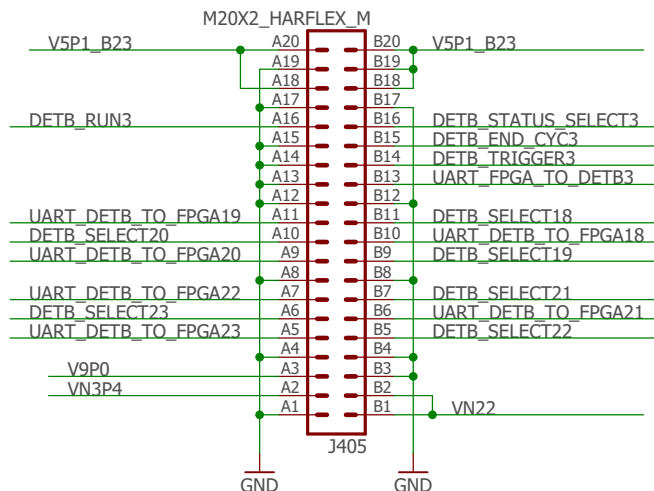
Detector Backplane B0



Detector Backplane B1

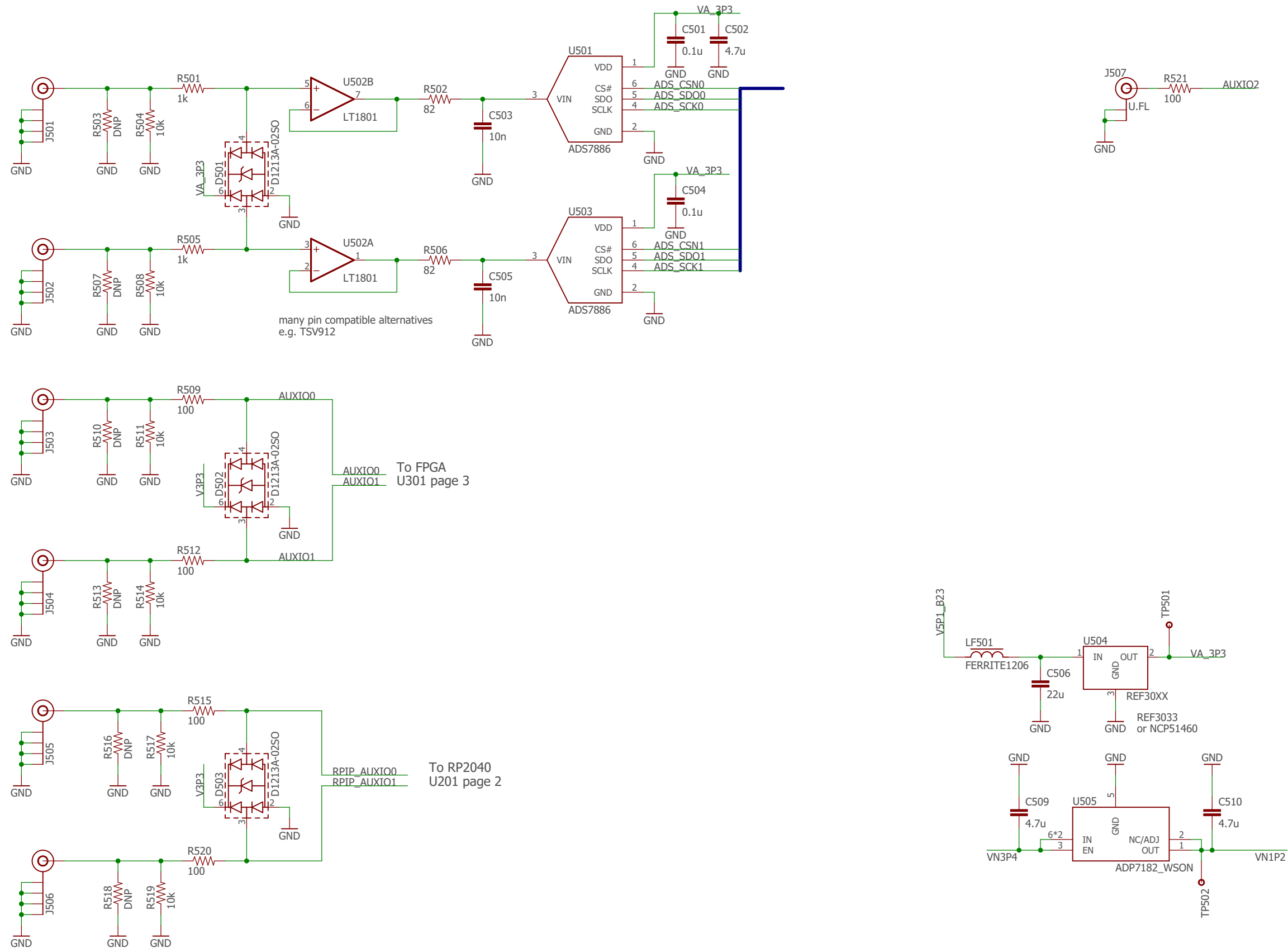


Detector Backplane B2

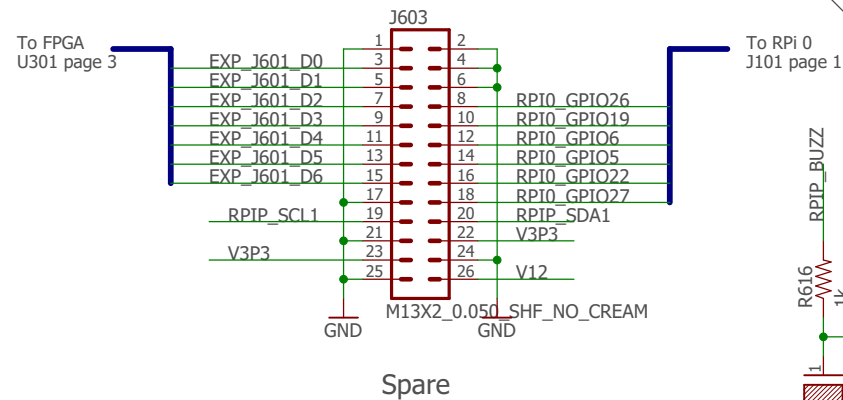
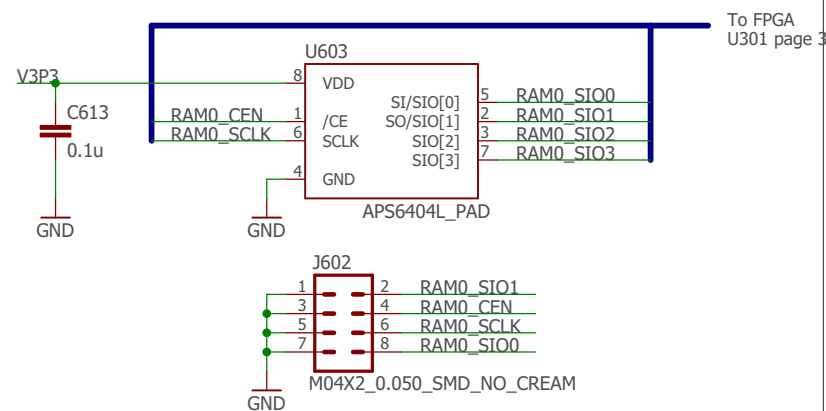
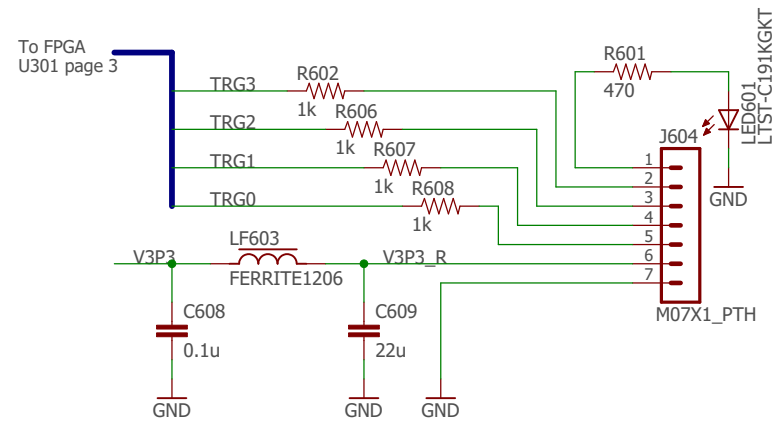


Detector Backplane B3

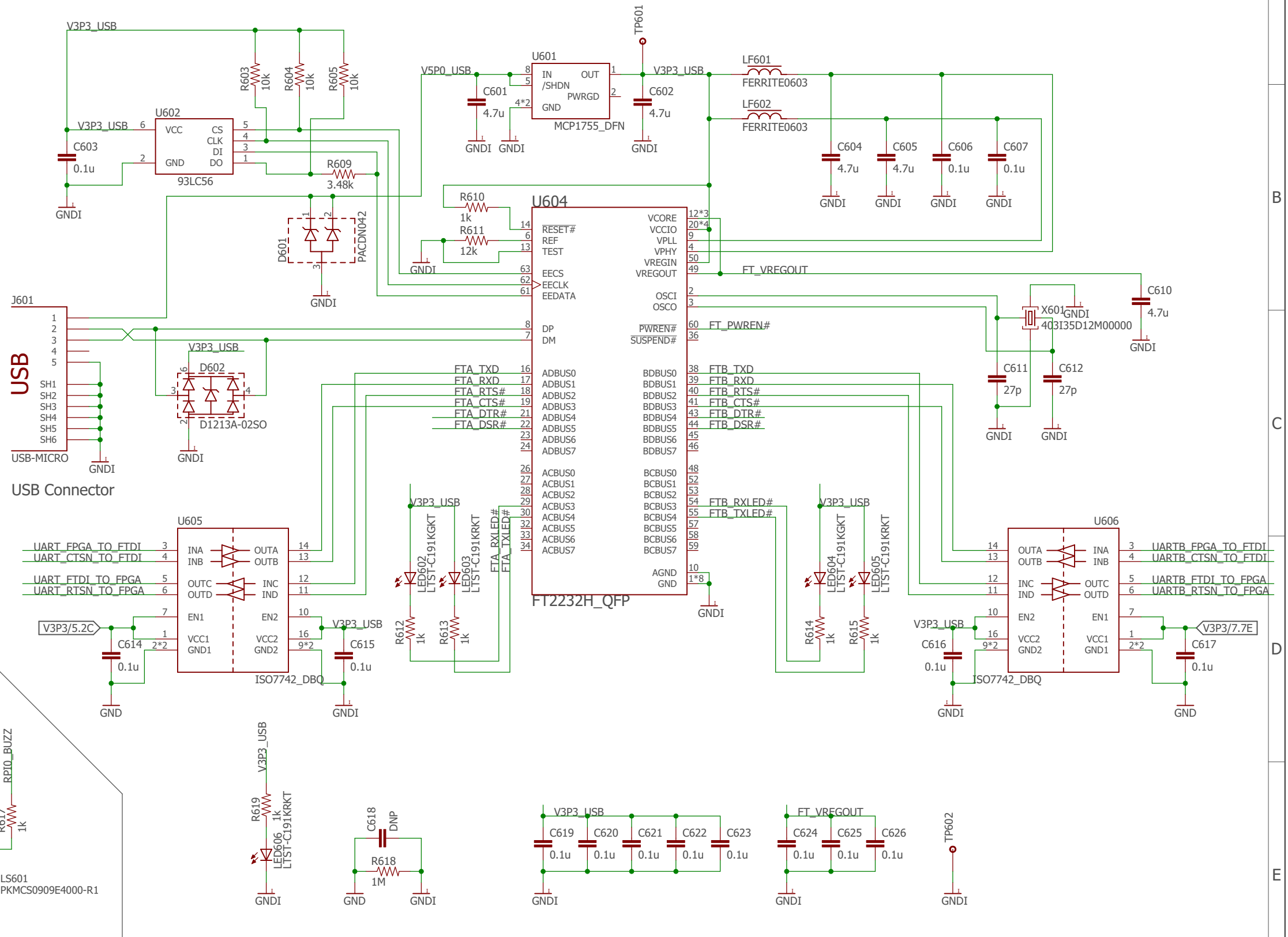
Aux I/O



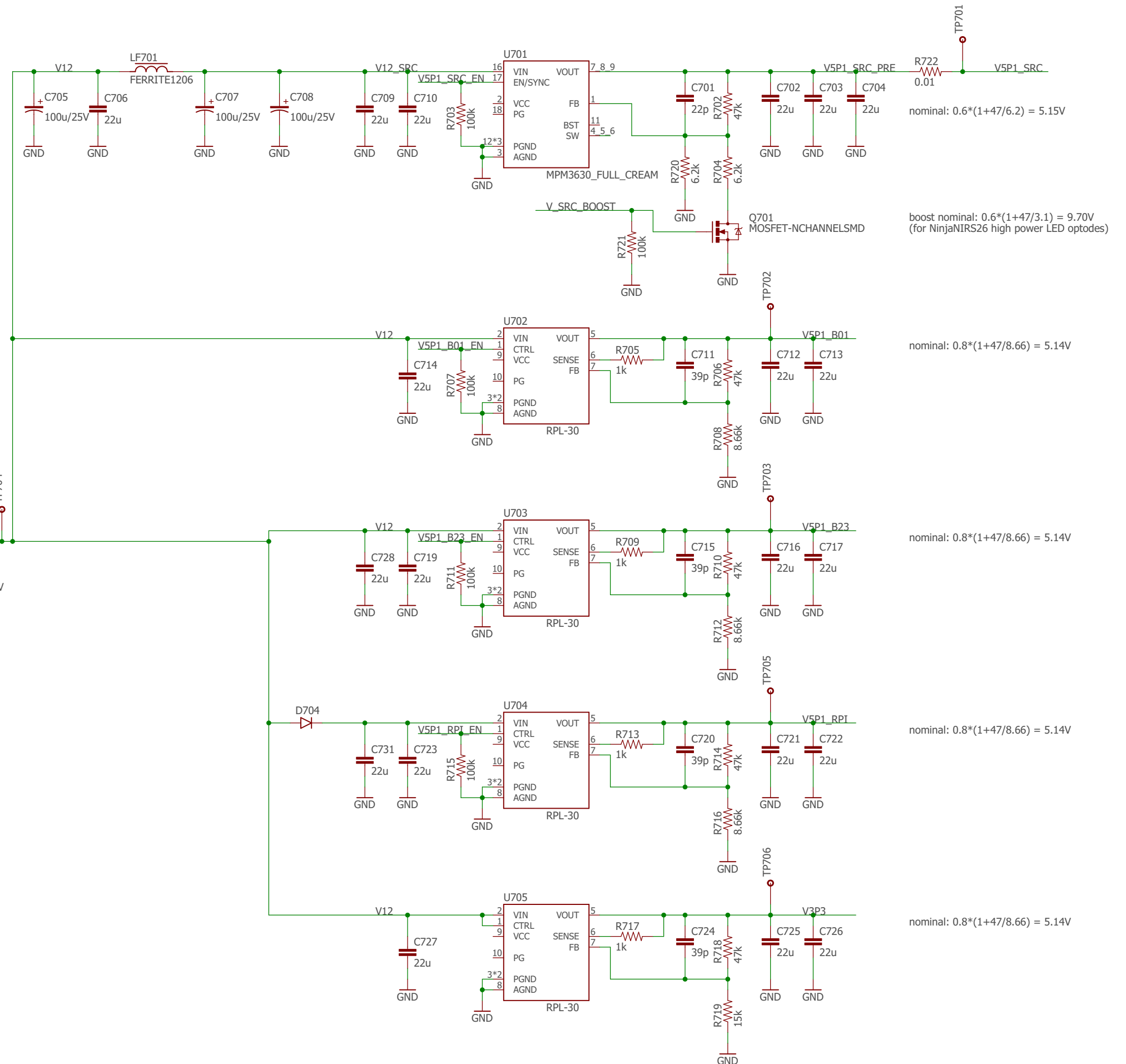
Misc Circuits



FTDI USB Interface



Voltage Regulators



12V nominal

POWERJACK_PJ051AH

D701

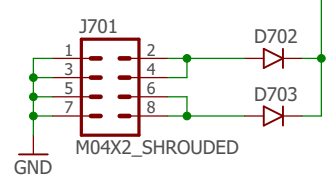
SHIELD

J702

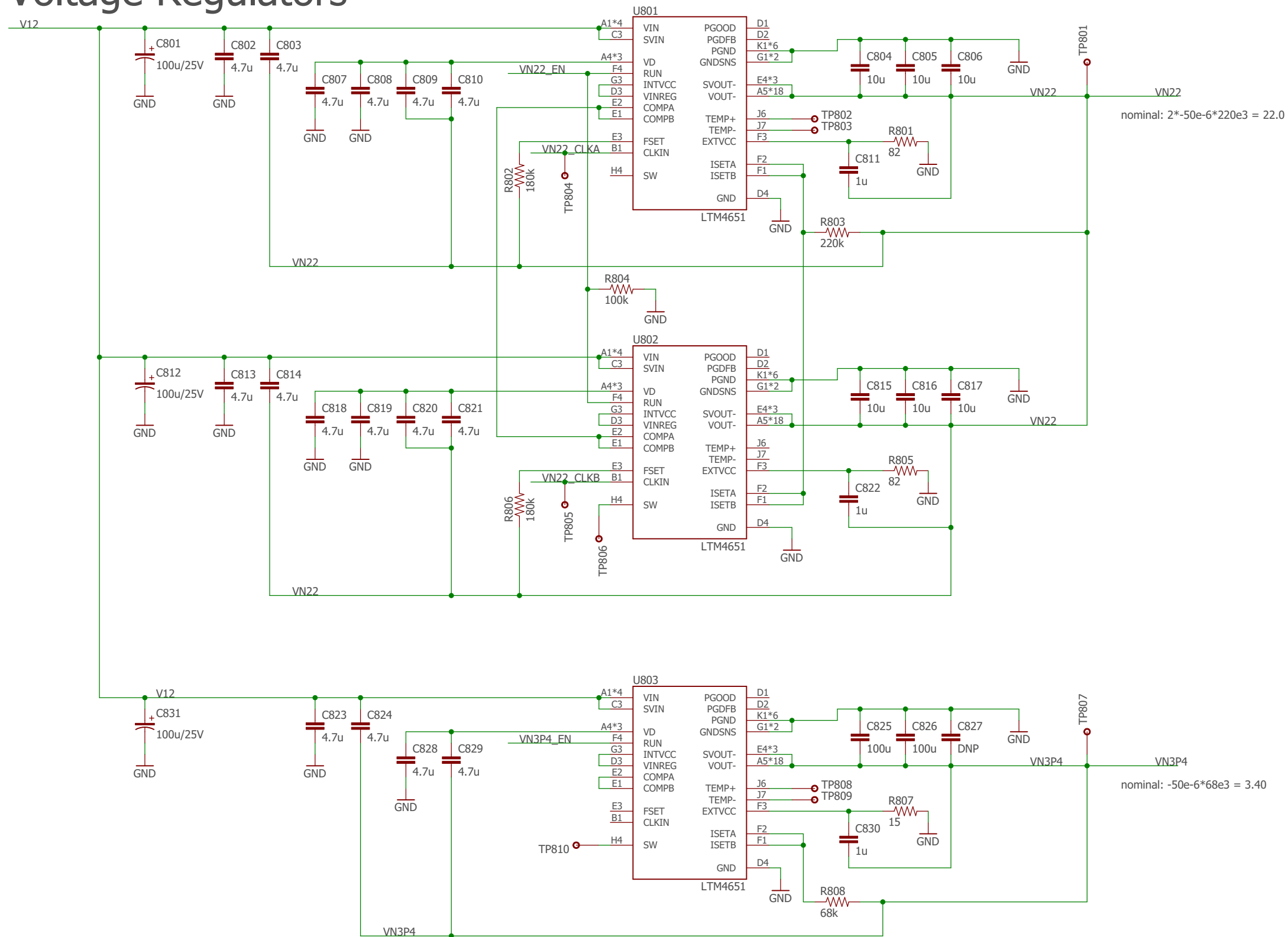
1*2

GND

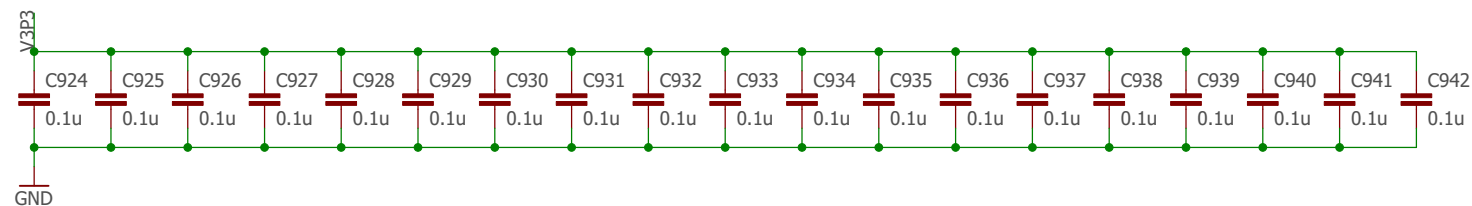
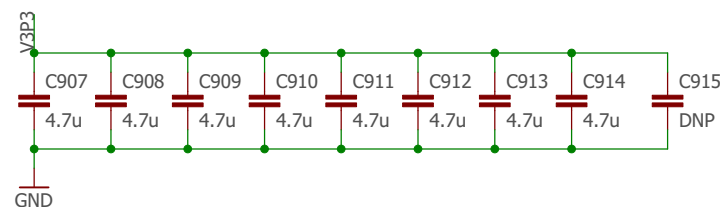
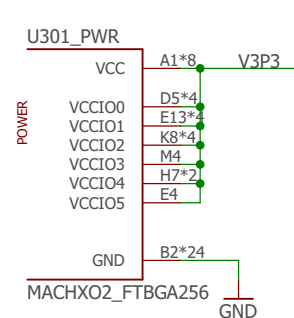
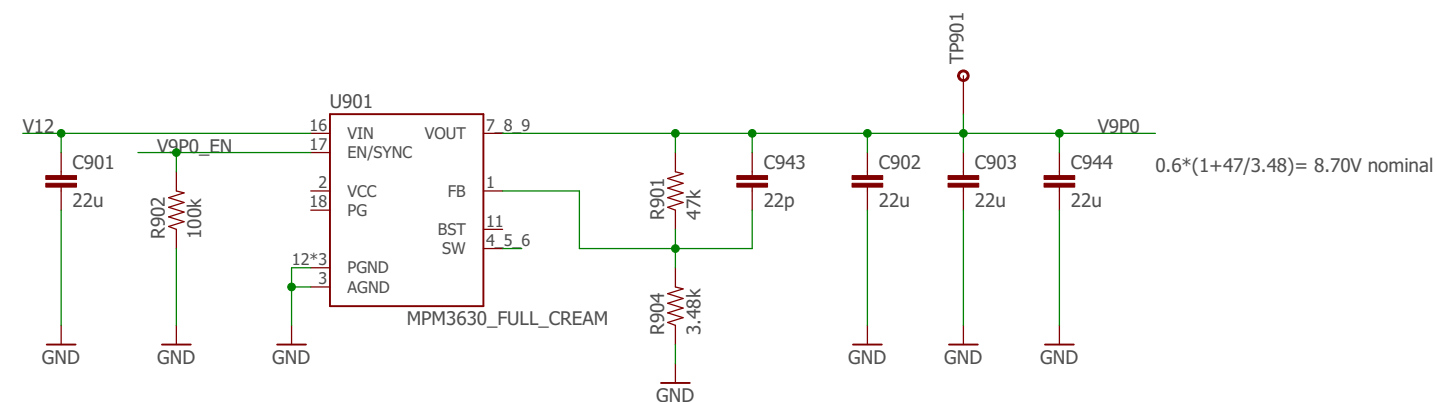
Main Power Connectors (Quick Disconnect)



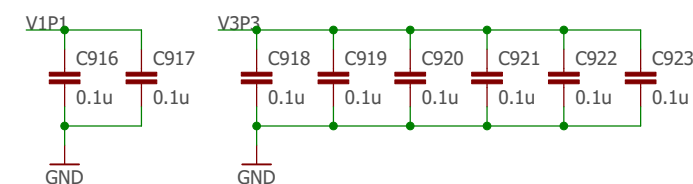
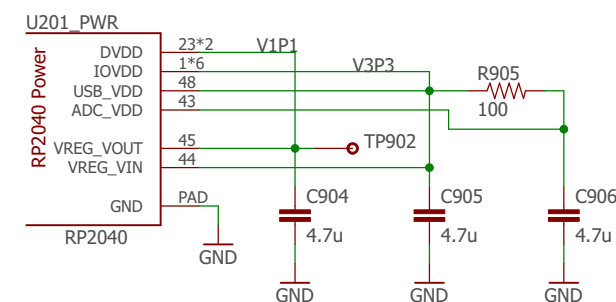
Negative Voltage Regulators



Misc Power



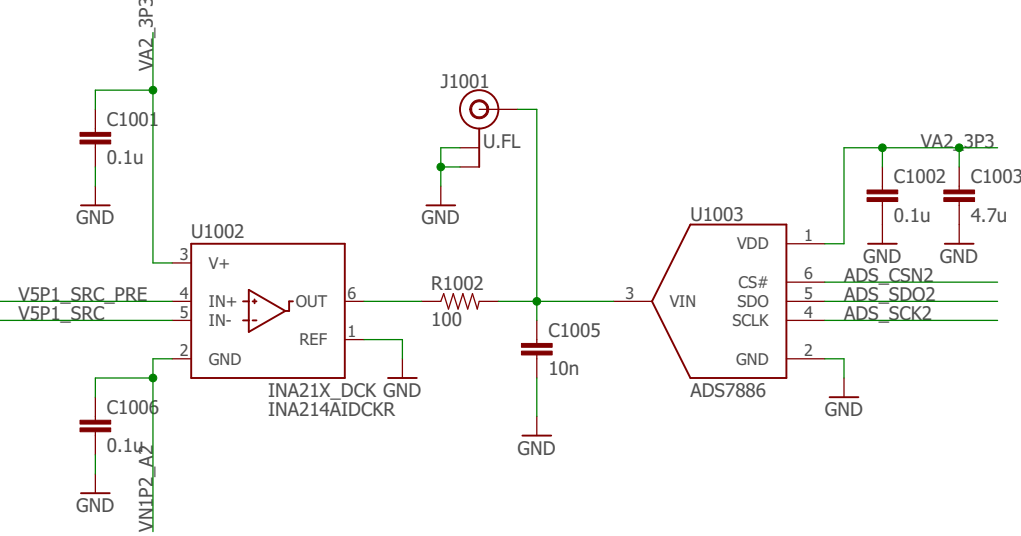
FPGA Decoupling



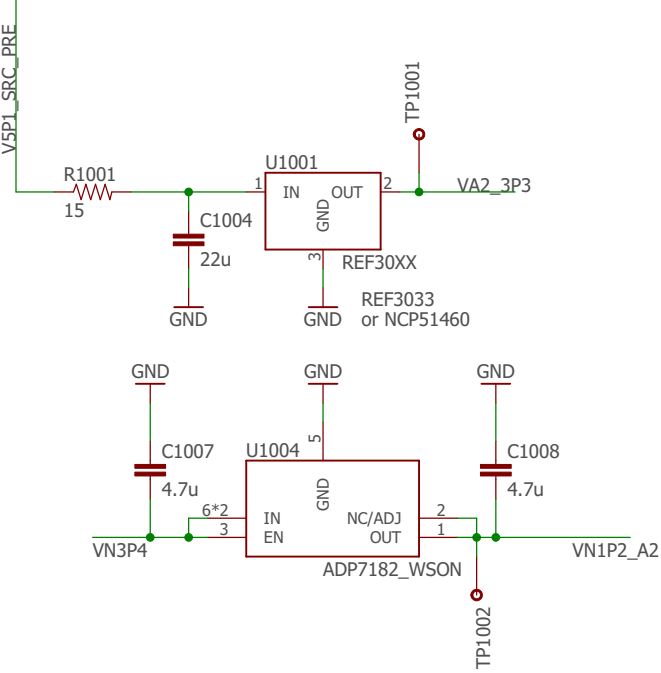
MCU Decoupling



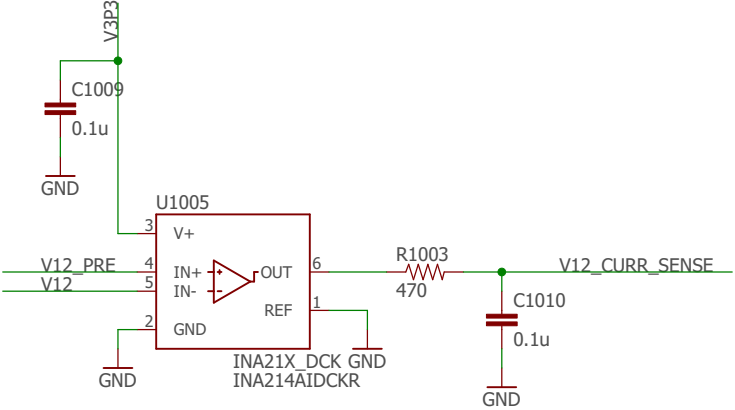
Current Monitors



Source Backplane Current Monitor



System Total Current Monitor



System Total Current Monitor