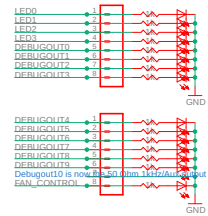
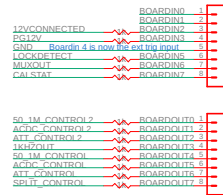




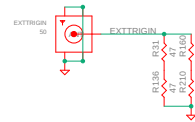
2.5V outputs from
the FPGA for debugging, etc.
These go to LEDs for monitoring



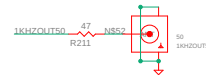
2.5V inputs and outputs to/from
the FPGA for status monitoring
and control of things, etc.



50 Ohm external trigger input



50 Ohm 1kHz / Aux output



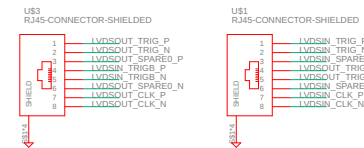
1kOhm 1kHz output for probe compensation



Extra clock input and output

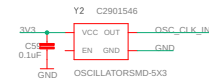


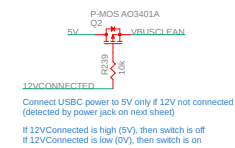
LVDS outputs and inputs for sync between boards



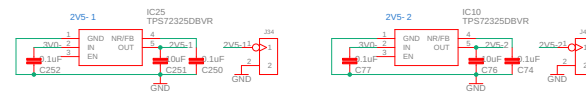
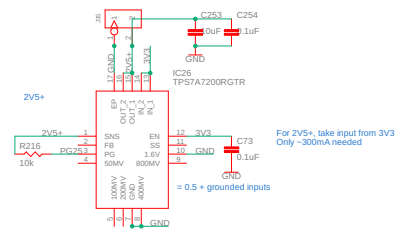
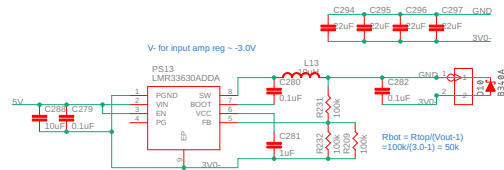
Cyclone IV E left and right I/O banks support
true LVDS transmitters, so use them for LVDS outputs

50 MHz clock for FPGA



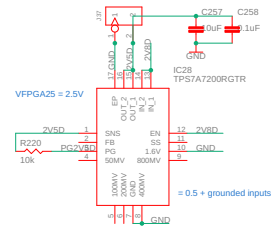
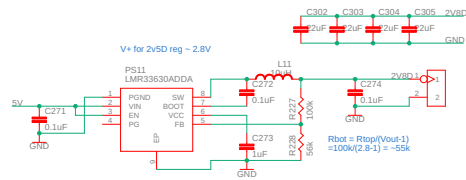
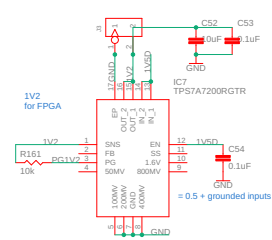
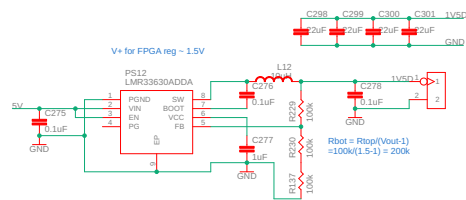


Need + and - 2.5V for the amplifiers

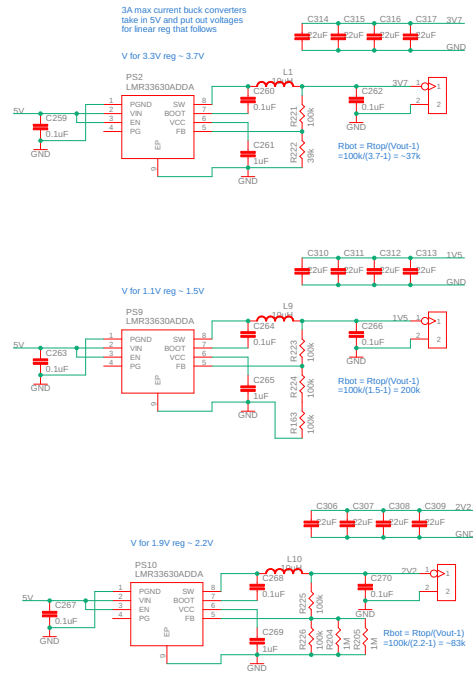


Need separate -2V5 supplies for inputs A and B because each needs more than 100mA and each of these negative regulators can only make 200mA

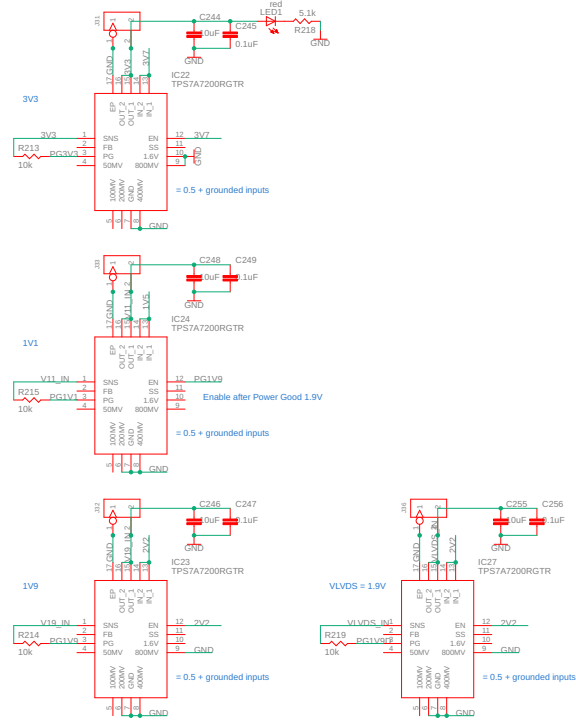
Need some power for the FPGA

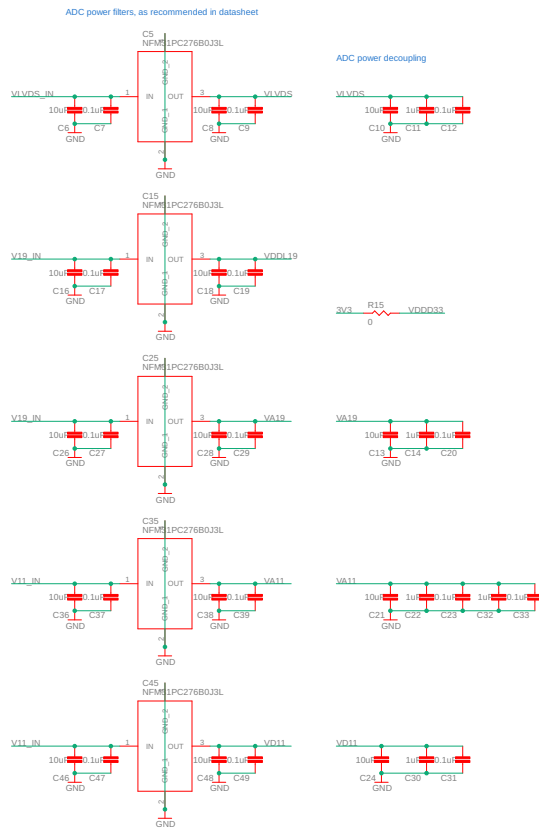


Need 3v3 1v1 and 1v9 for the main ADC



2A max current linear regs with 180mV dropout at 2A





These transfer power to actual FPGA voltage inputs



FPGA power decoupling

