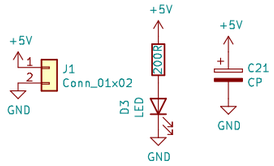
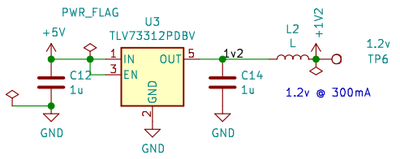
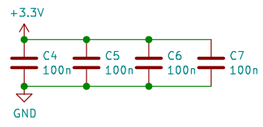
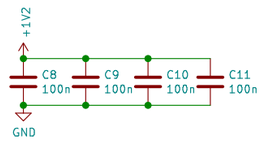
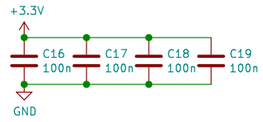
Power Supply

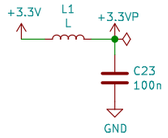


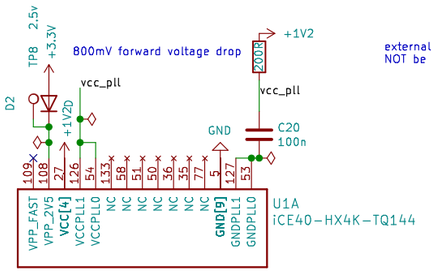




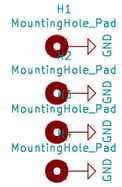




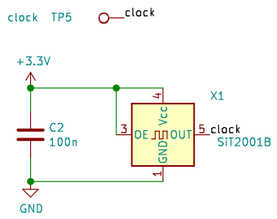




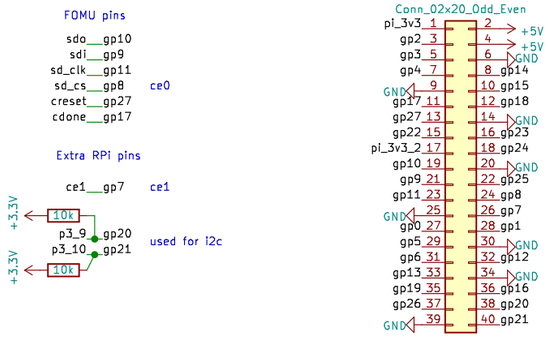
external PLL ground connection (GNDPLL) must NOT be connected to the board's ground.



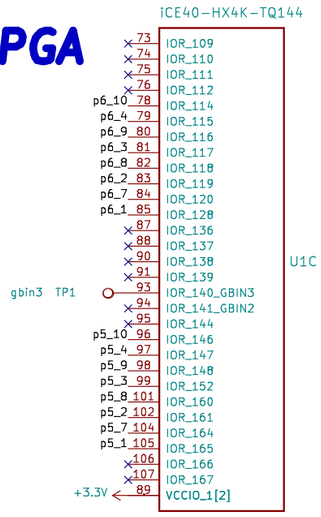
Clock

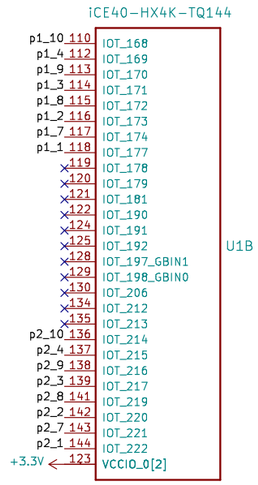


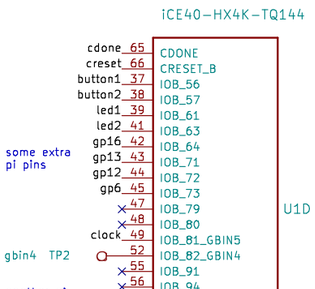
Programming

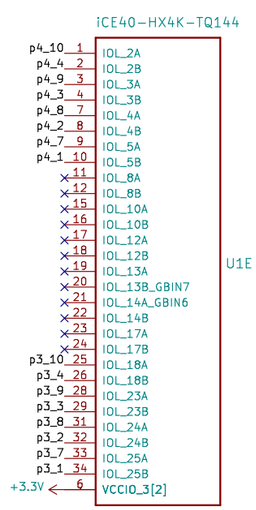


FPGA

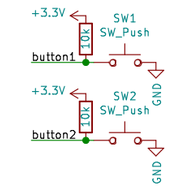


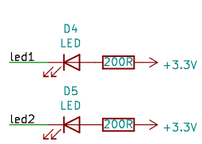


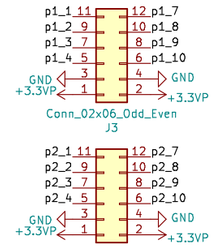


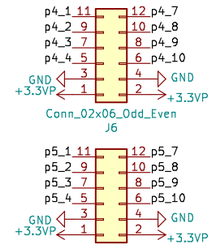


Peripherals



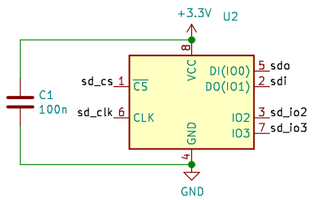


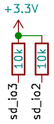




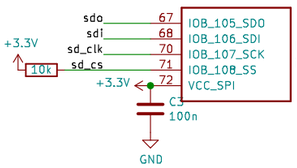
FLASH

16Mb FLASH supports 0Bh fast read

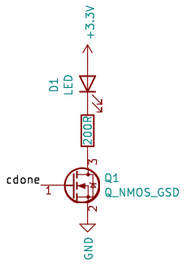




pullups required for safe operation of flash



pullup on ss means configure as SPI master to read configuration from FLASH at boot



things to check:
clock and reset gbin, will pll be ok?
flash – pullups needed?
check fpga pinout against lattice docs

Sheet: /
File: first-fpga-pcb.sch

Title: Matt-FPGA

Size: A3	Date: 2020-07-17	**Rev: 0.2**
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1		Id: 1/1