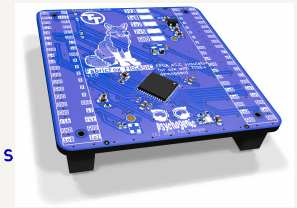
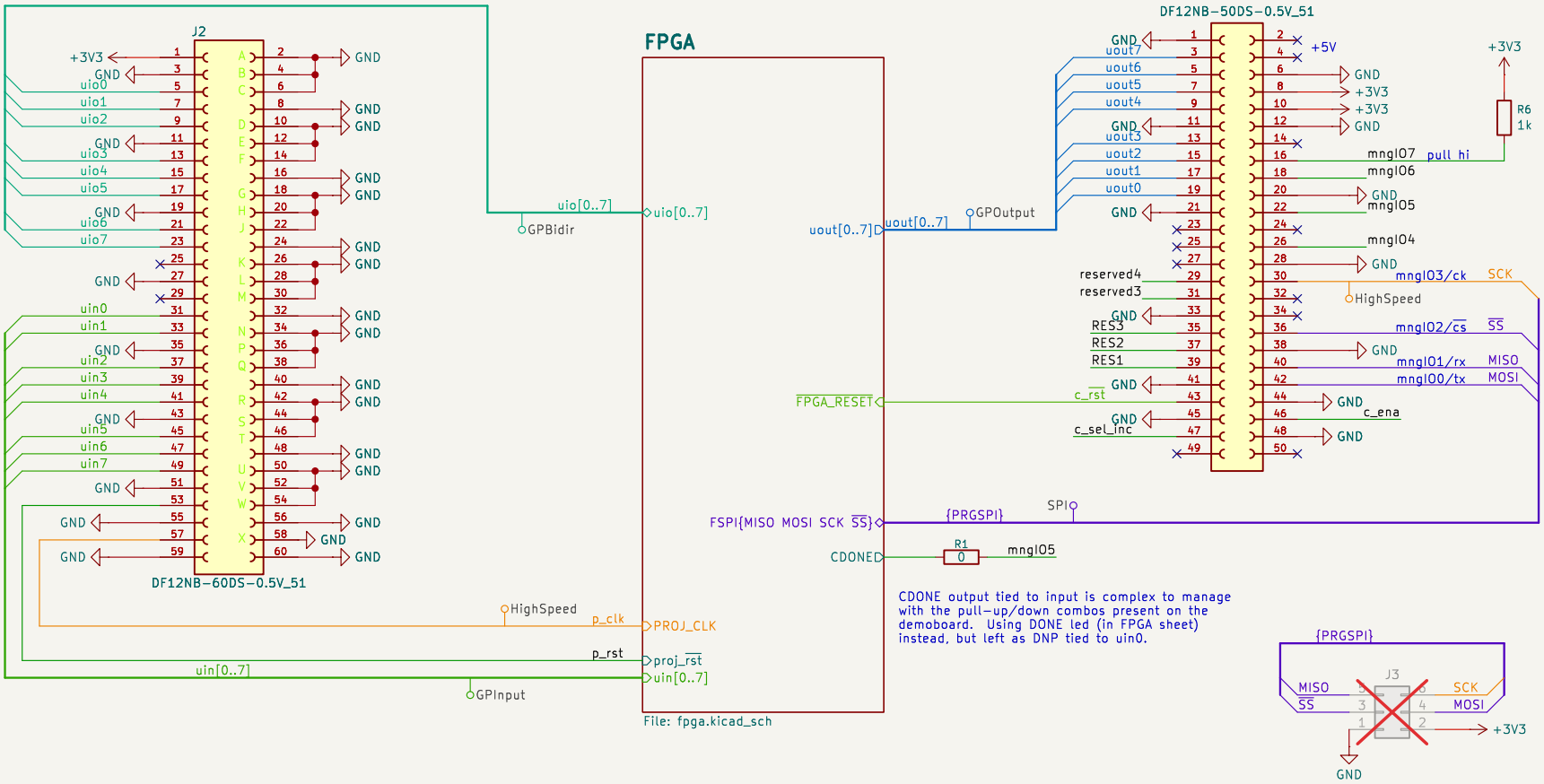
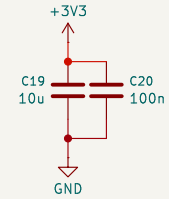
FabricFox FPGASIC

This is a minimalist FPGA board to be used as an "ASIC simulator" atop Tiny Tapeout demoboards (TT06+). The RP2 on the DB is charged with configuring the up5k FPGA, which is configured in CRAM mode, and awaits programming on power-up. The two (bottom side) connectors match the footprint of the ASIC breakout boards and map all the digital I/O, as well as project clock and reset, to the FPGA.







FID1 Fiducial
FID2 Fiducial
FID3 Fiducial

Fox icon based on image by **Stampf @ Pixabay.com**

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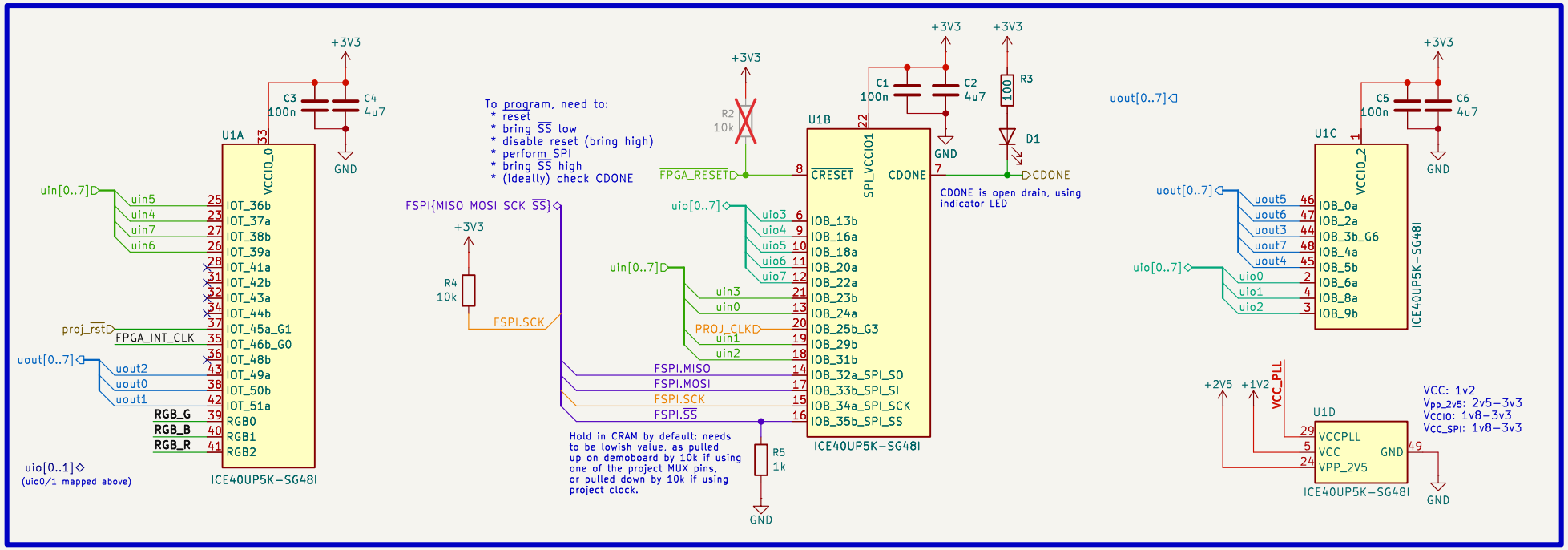
Sheet: /
File: ttdbv3-fpga-ICE40UP5k.kicad_sch

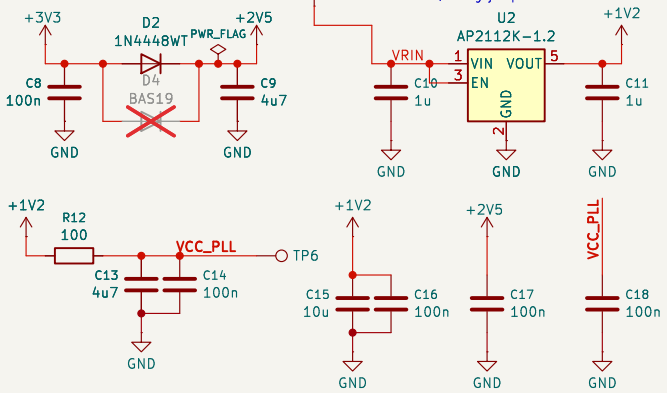
Title: FabricFox FPGASIC

Size: A4	Date: 2025-12-01	**Rev: 2.0**
KiCad E.D.A. 9.0.0		Id: 1/2

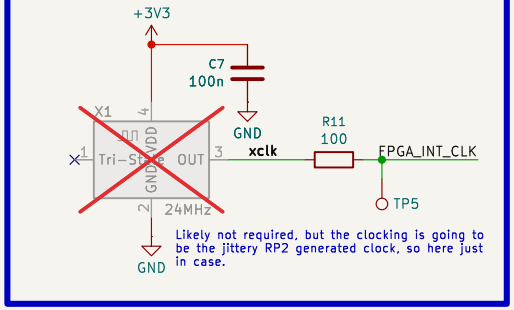
UP5K FPGA and Support



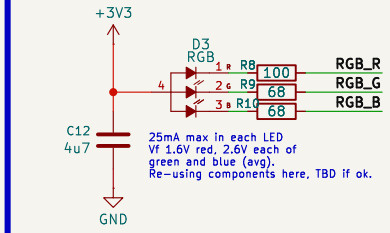
Power



On-board Oscillator



RGB LED



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Title: UP5K FPGA and Support

Size: A4	Date: 2025-12-01	**Rev: 1.0**
KiCad E.D.A. 9.0.0		Id: 2/2