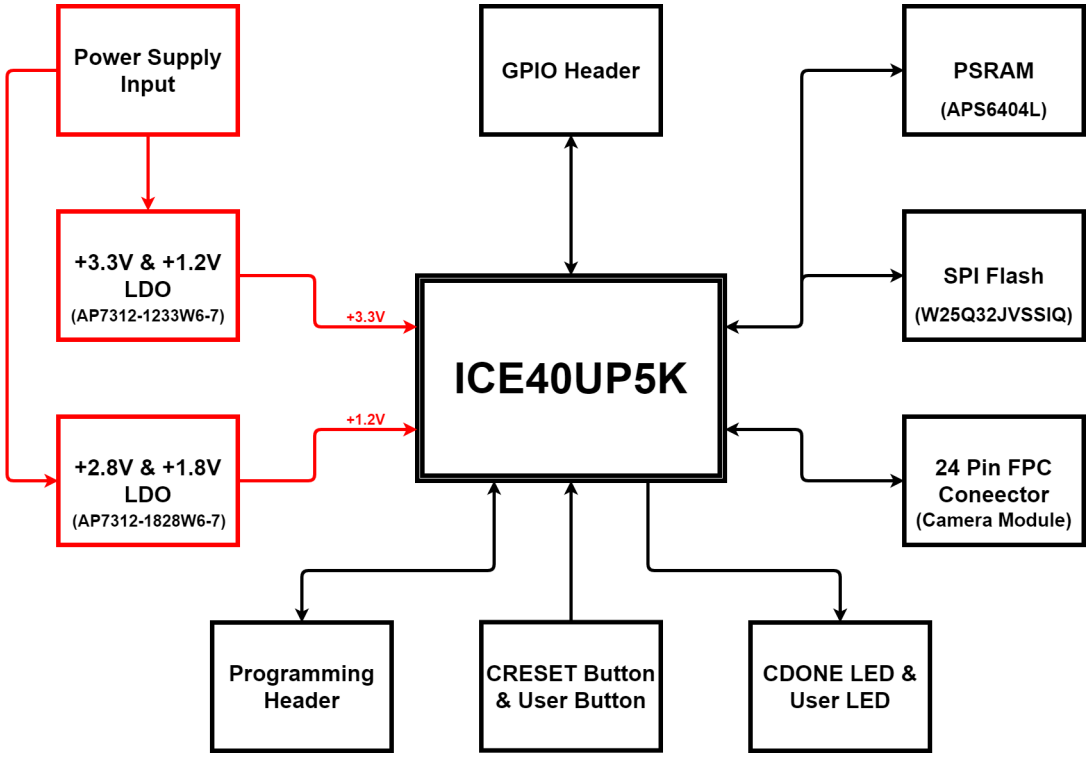
Block Diagram



Sheet: power_supply
File: power_supply.sch

Sheet: iCE40UP5K
File: iCE40UP5K_SG48ITR.sch

Sheet: io_headers
File: io_headers.sch

Sheet: OV26400_spi-flash_SRAM
File: OV2640_spi-flash_SRAM.sch

H1 H2 FID1 FID2 FID3

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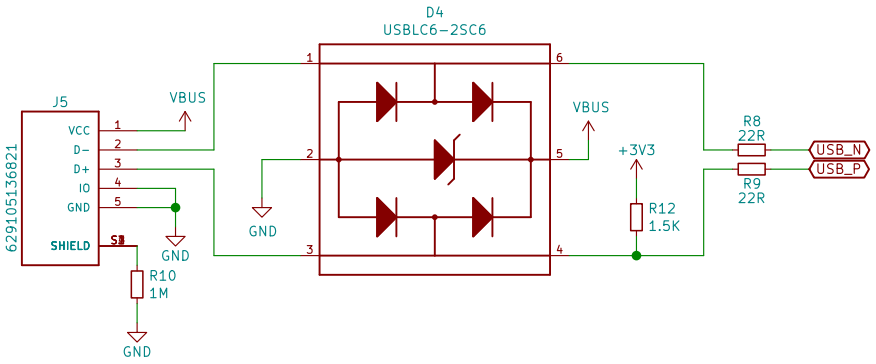
Sheet: /
File: fpga-play.sch

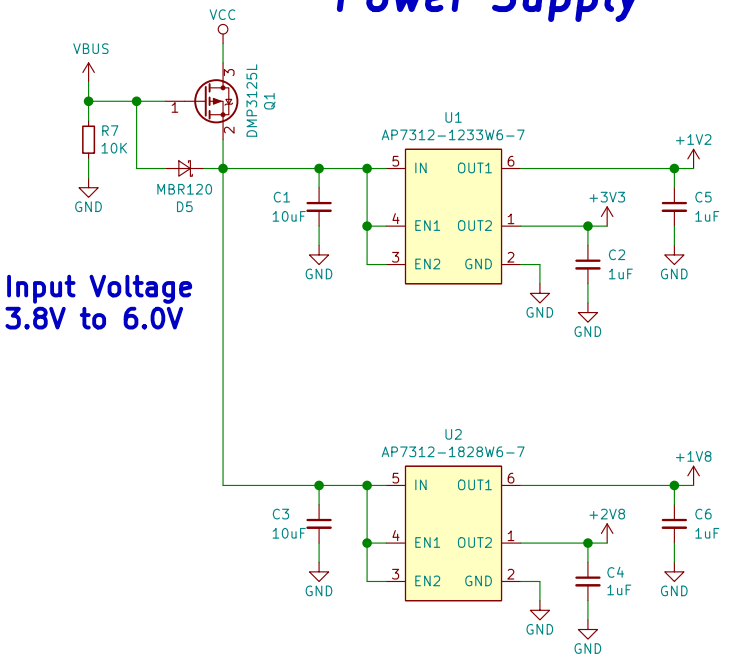
Title: fpga.play

Size: A4	Date: 2020-09-04	**Rev: 0.1**
KiCad E.D.A. kicad (5.1.6)-1		Id: 1/5

USB Bootloader



Power Supply



Input Voltage
3.8V to 6.0V

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Sheet: /power_supply/
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Title: fpga.play

Size: A4	Date: 2020-09-04	**Rev: 0.1**
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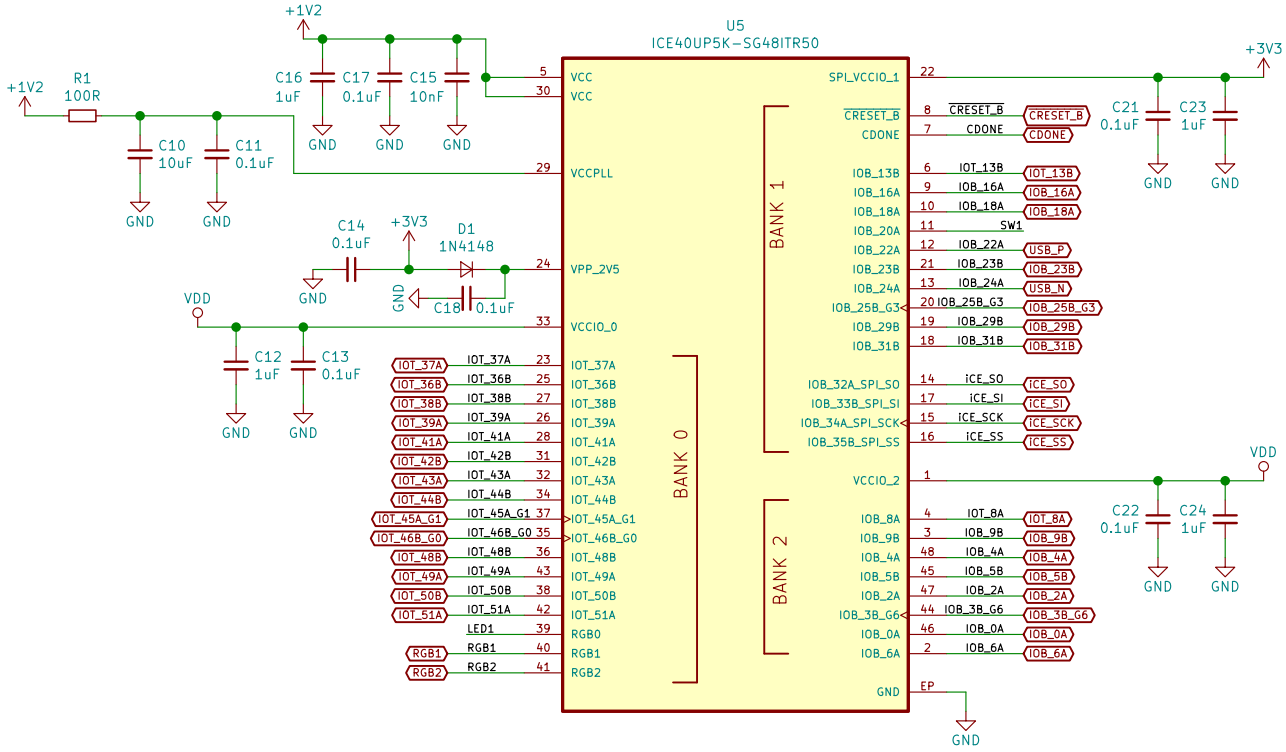
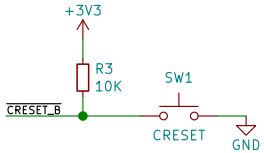
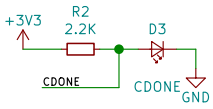
ICE40UP5K



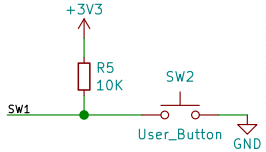
CRESET Button



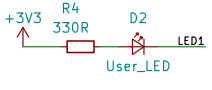
CDONE LED



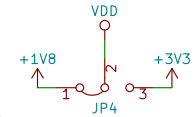
User Button



User LED



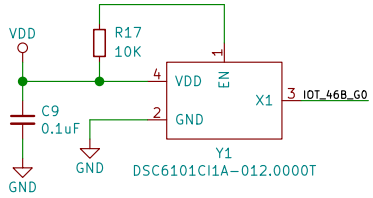
Bank 0&2 Voltage Selection



Note:

While using the camera jumper must be on pin 1 and 2.

Crystal Osillator



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Sheet: /iCE40UP5K/
File: iCE40UP5K_SG48ITR.sch

Title: fpga.play

Size: A4	Date: 2020-09-04	**Rev: 0.1**
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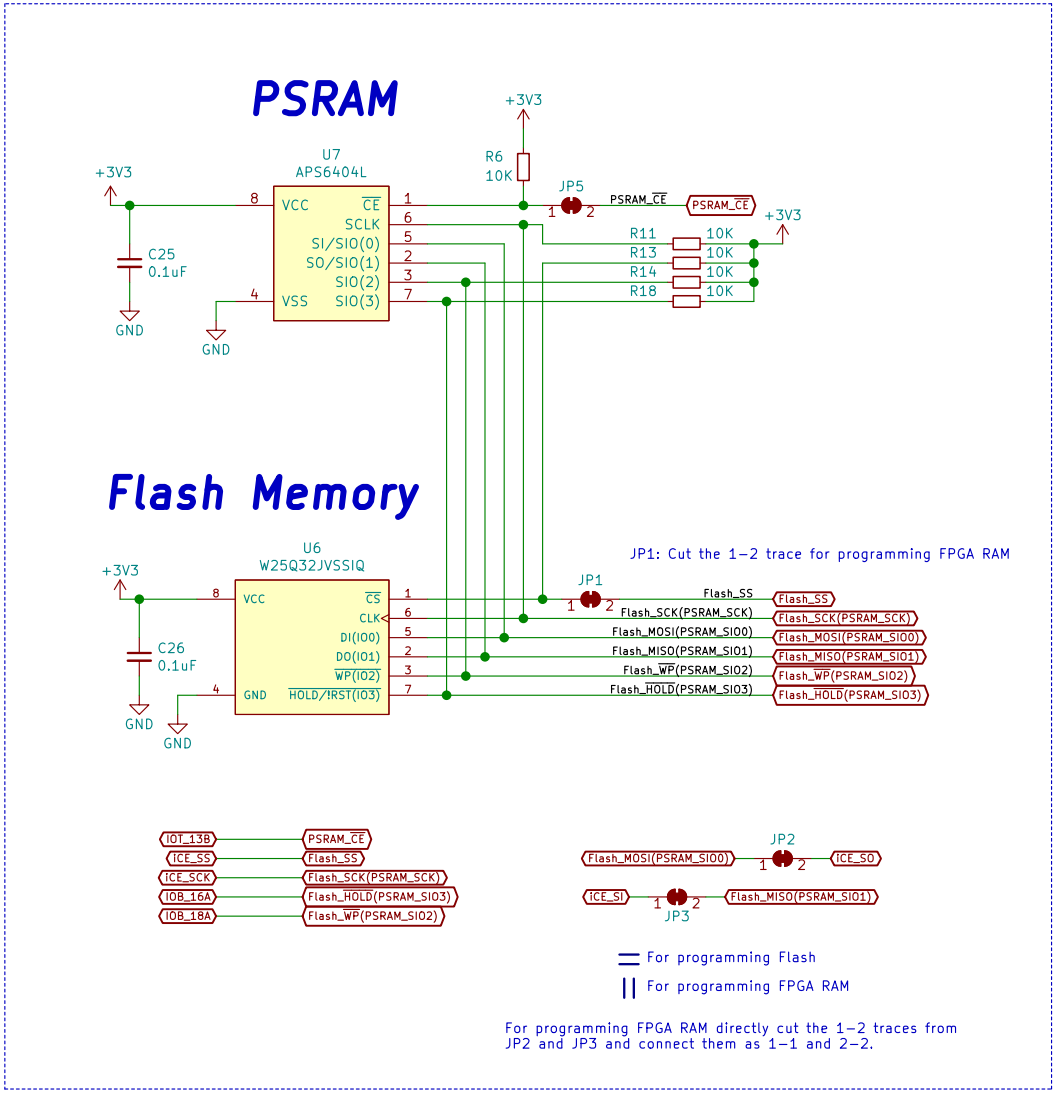

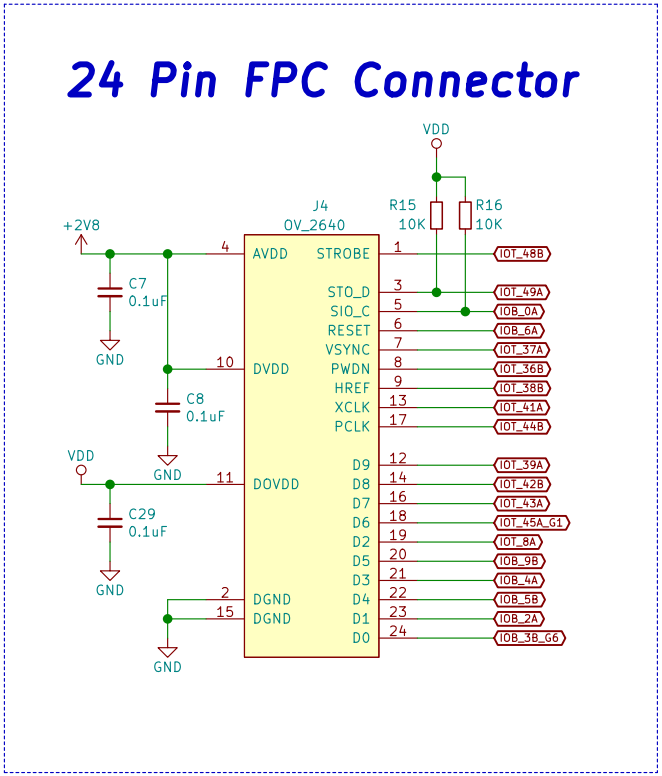

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Sheet: /OV26400_spi-flash_SRAM/
File: OV2640_spi-flash_SRAM.sch

Title: fpga.play

Size: A4	Date: 2020-09-04	**Rev: 0.1**
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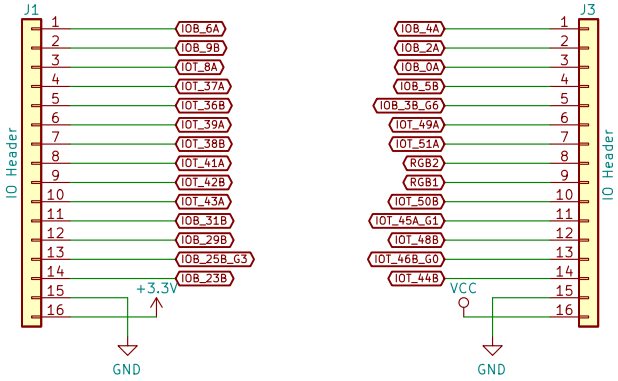
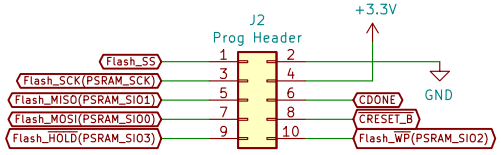
GPIO Header



Programming Header



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Sheet: /io_headers/
File: io_headers.sch

Title: fpga.play

Size: A4	Date: 2020-09-04	**Rev: 0.1**
KiCad E.D.A. kicad (5.1.6)-1		Id: 5/5