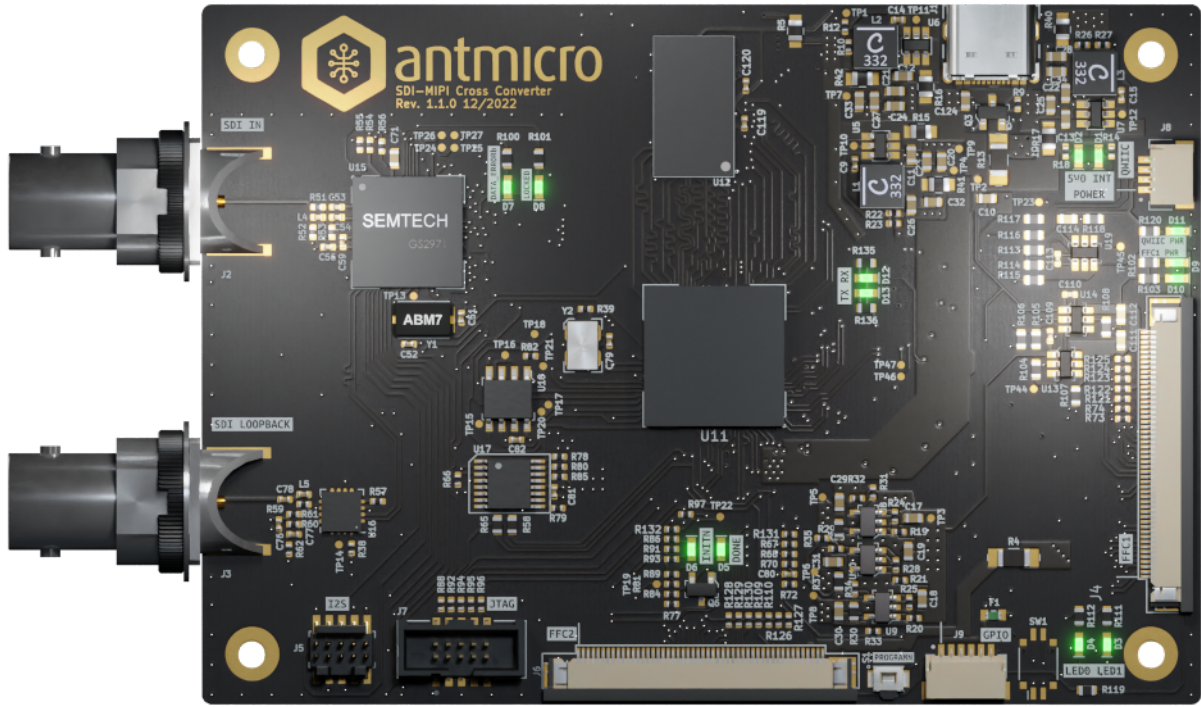




SDI



File: sdi.kicad_sch

FPGA



File: fpga.kicad_sch

FPGA Power



File: FPGA_Power.kicad_sch

Power Supply



File: supply.kicad_sch

DDR3



File: ddr3.kicad_sch

Peripherals



File: peripherals.kicad_sch

- MP1 MP_Pad5.4mm_Drill2.7mm
- MP2 MP_Pad5.4mm_Drill2.7mm
- MP3 MP_Pad5.4mm_Drill2.7mm
- MP4 MP_Pad5.4mm_Drill2.7mm



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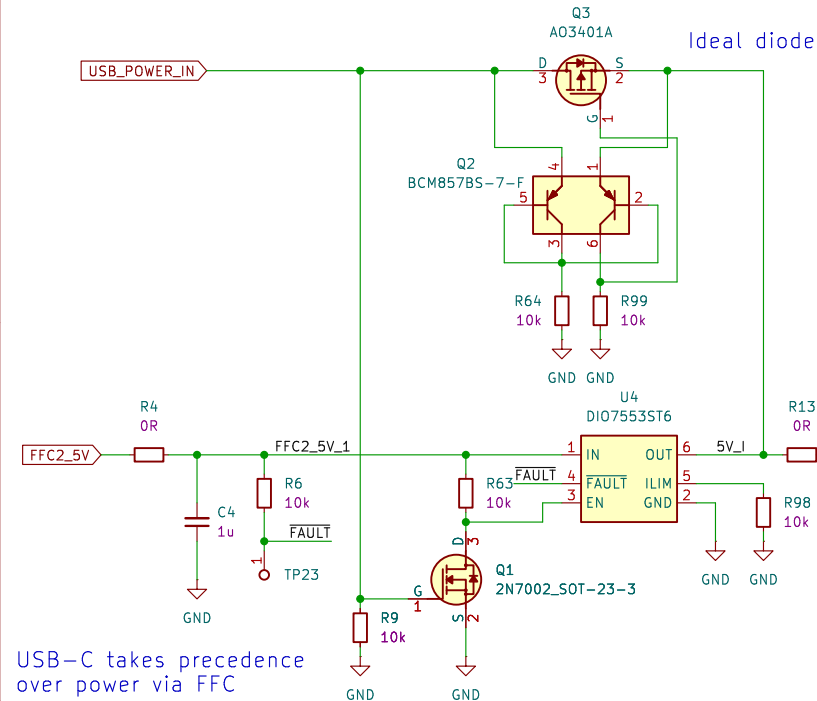
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Title: SDI-MIPI Video Converter

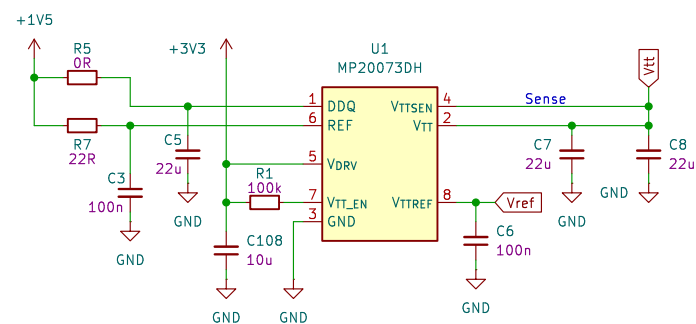
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KiCad E.D.A. 9.0.5

Rev: 1.1.4:5e181748
Id: 1/7

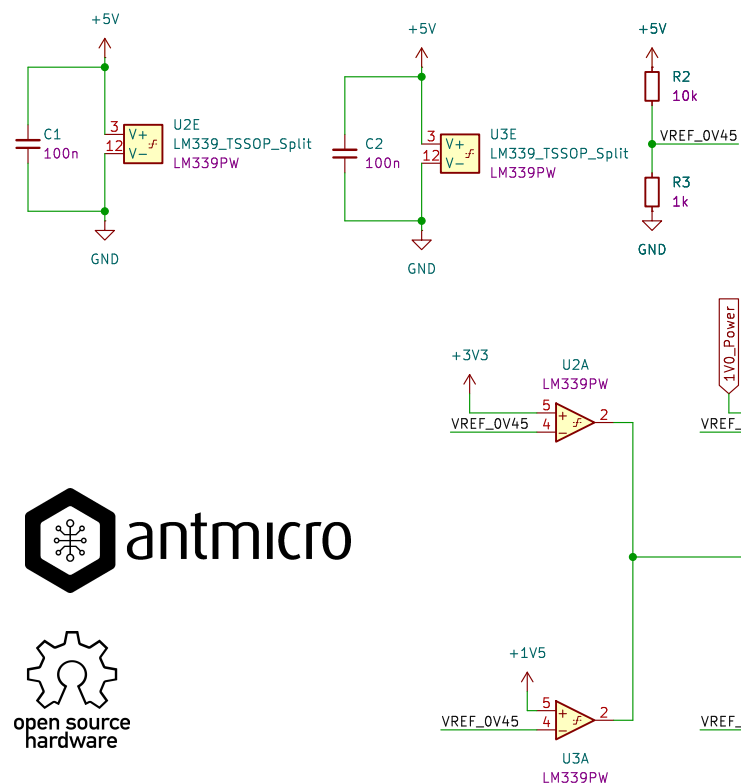
SUPPLY SELECTION



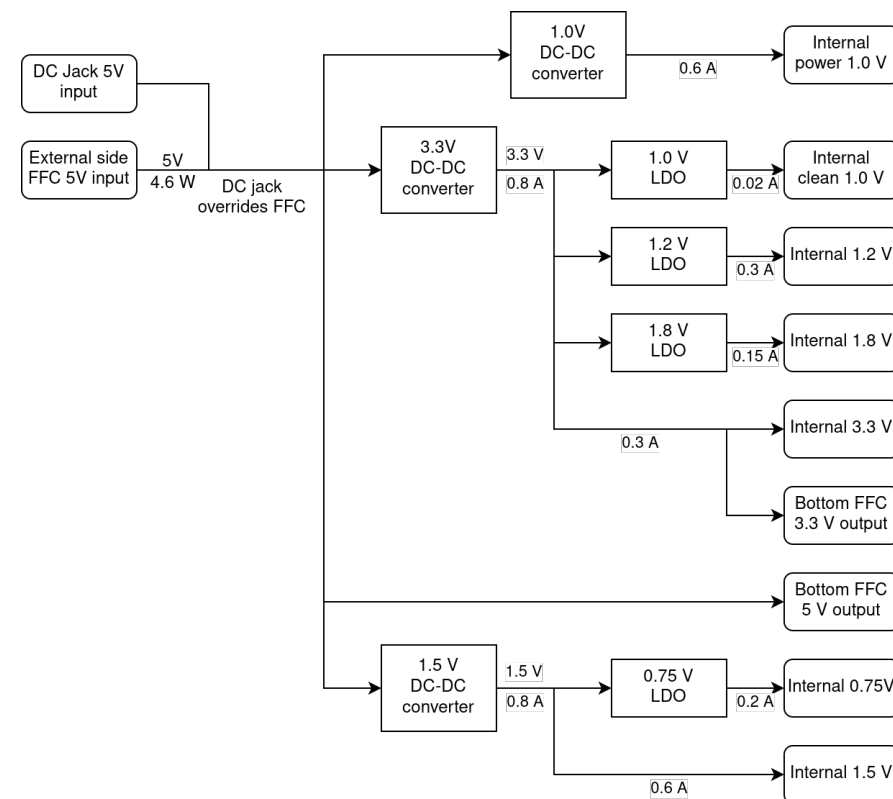
DDR MEMORY TERMINATION SUPPLY



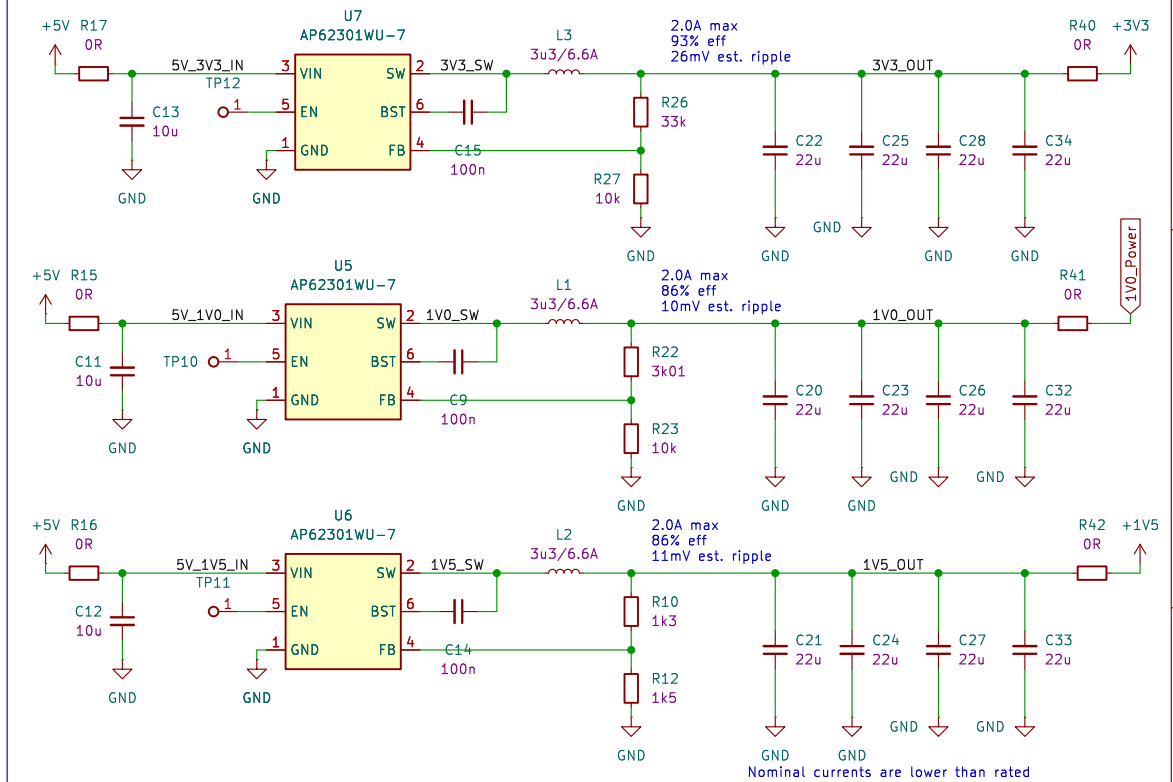
POWER INDICATORS



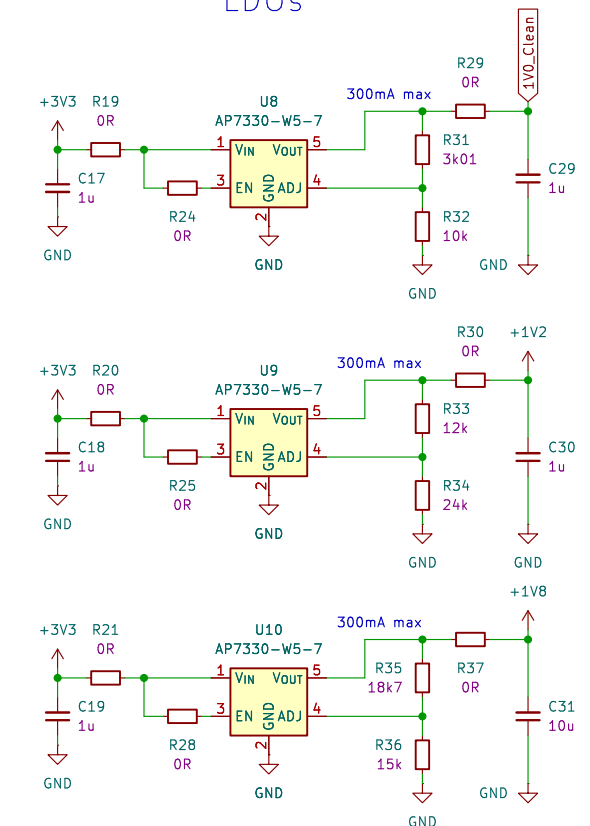
PS BLOCK DIAGRAM



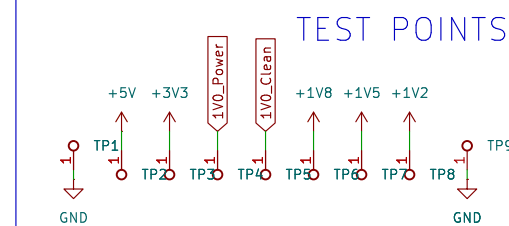
CONVERTERS



LDOs



TEST POINTS



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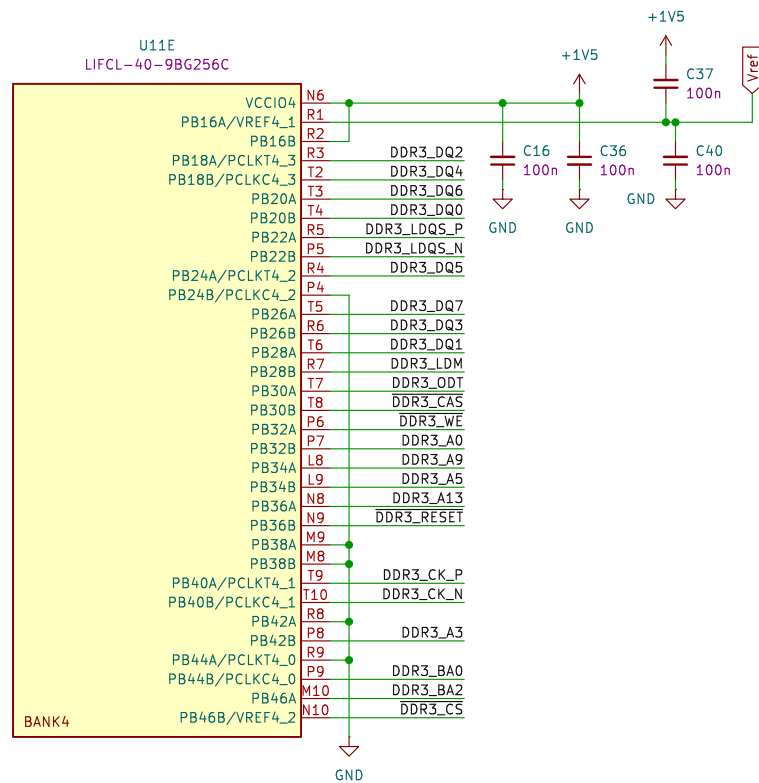
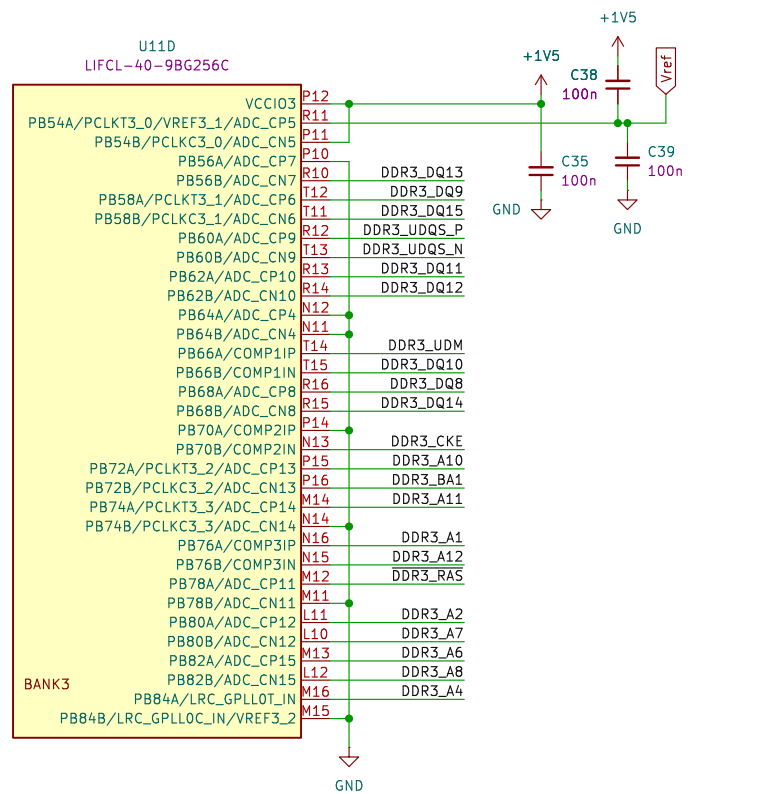
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File: supply.kicad_sch

Title: SDI-MIPI Video Converter

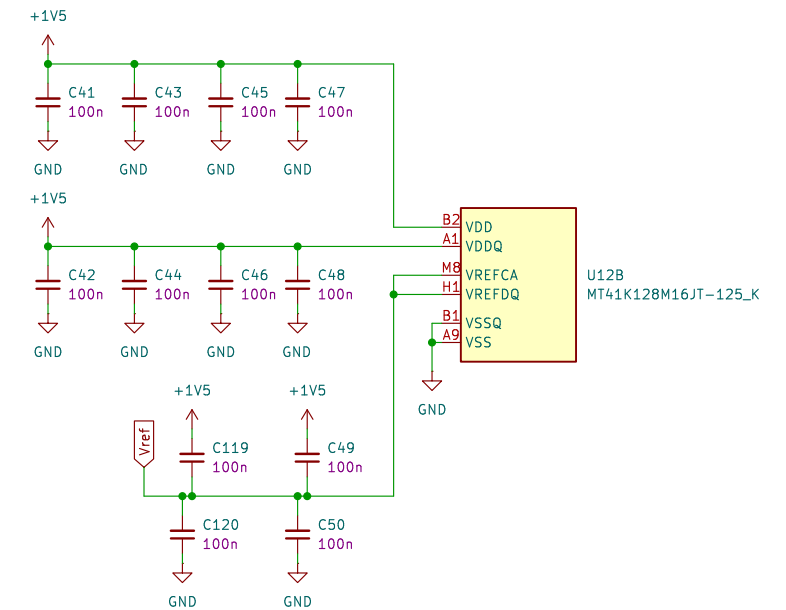
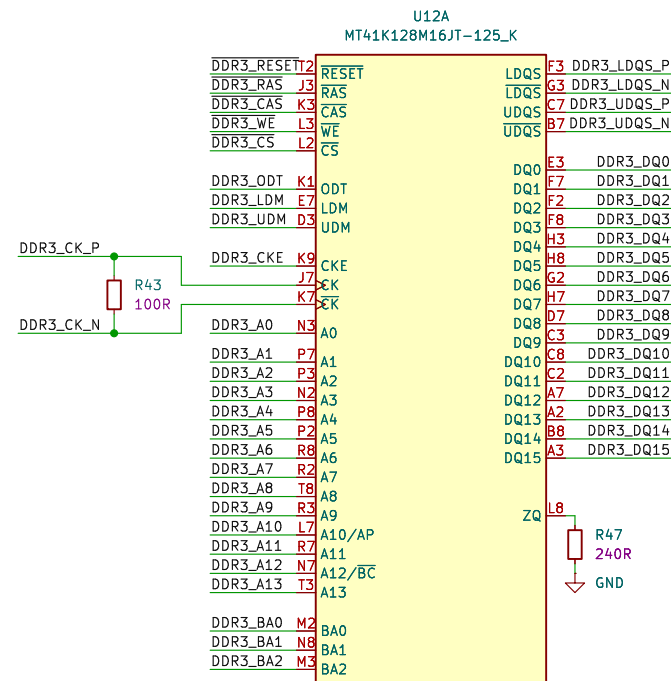
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KiCad E.D.A. 9.0.5

Rev: 1.1.4:5e181748
Id: 2/7

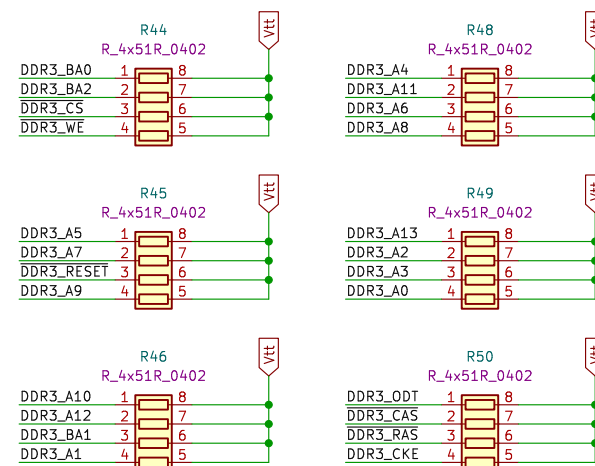
FPGA



RAM



TERMINATION



Signal terminations can be
rearranged for easier routing



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Sheet: /DDR3/
File: ddr3.kicad_sch

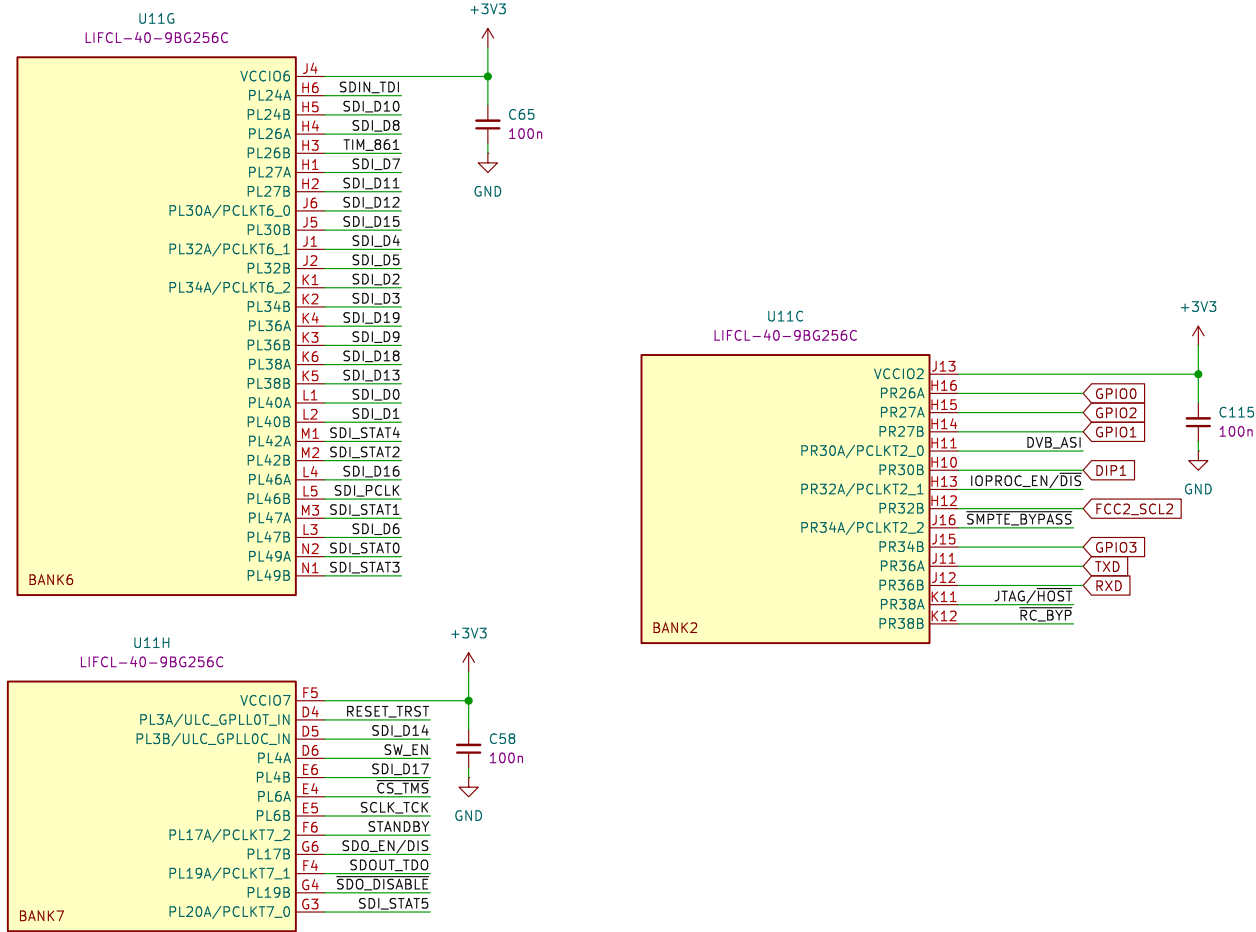
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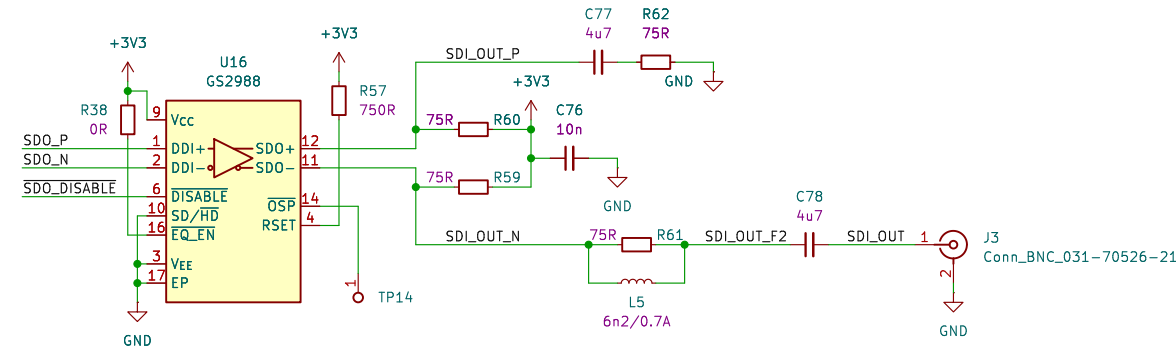
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Rev: 1.1.4:5e181748
Id: 3/7

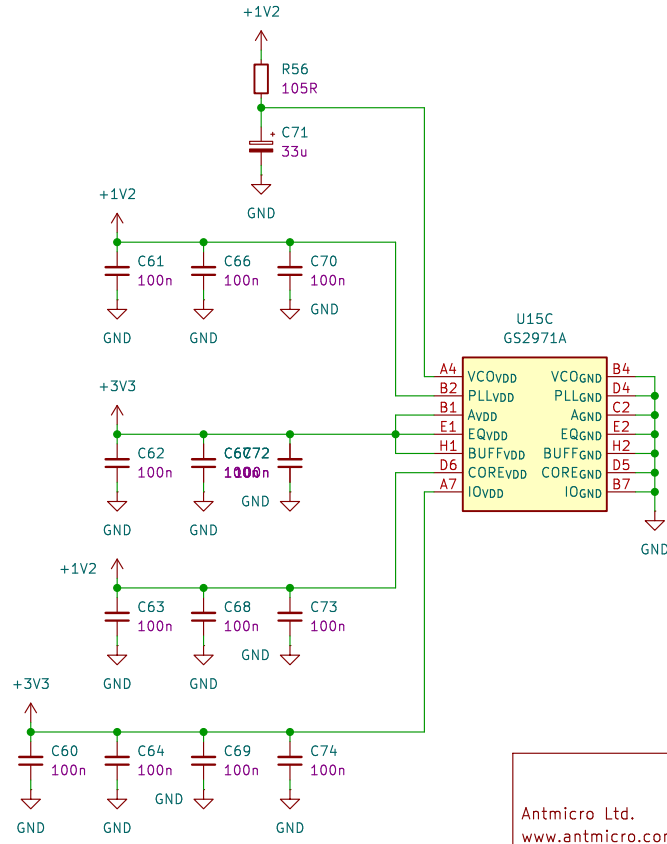
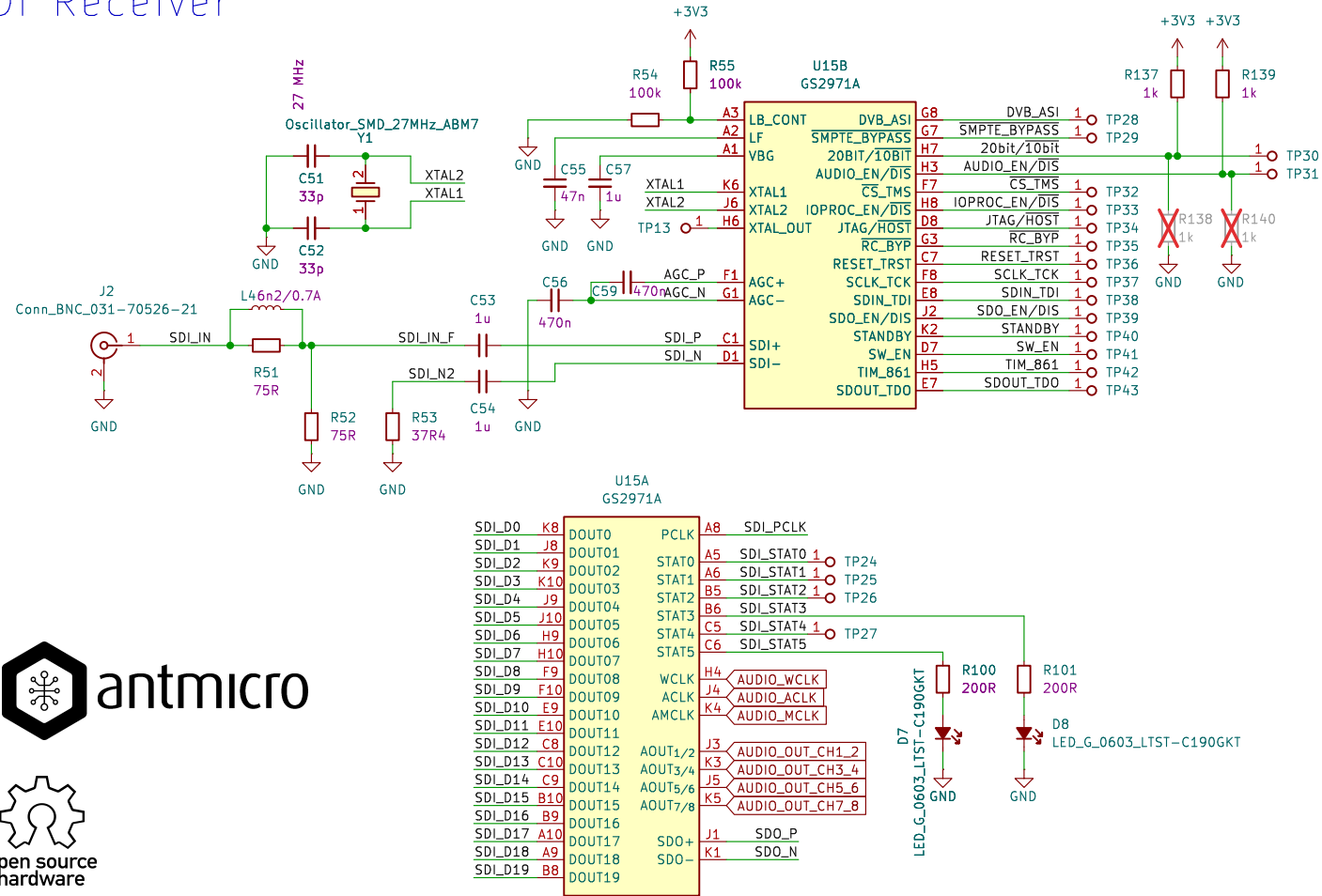
FPGA



Cable driver



SDI Receiver



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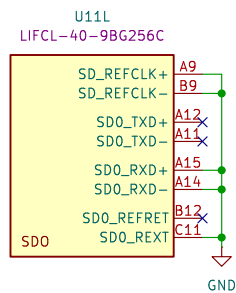
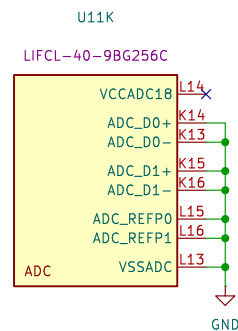
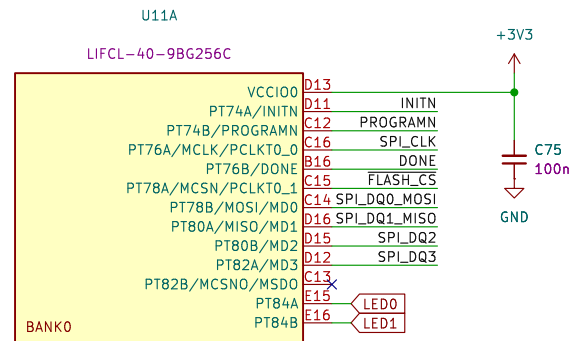
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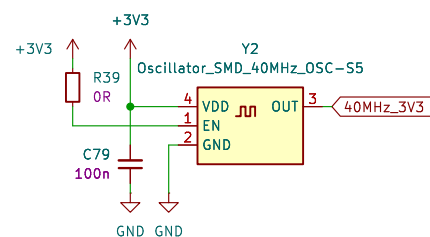
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FPGA

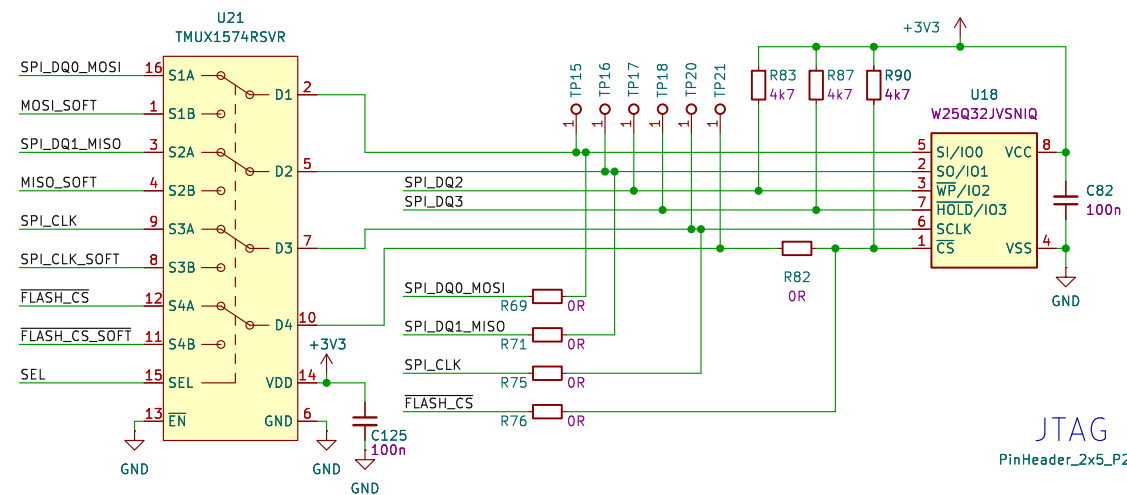


OSCILLATOR OPTIONAL, NORMALLY DNP



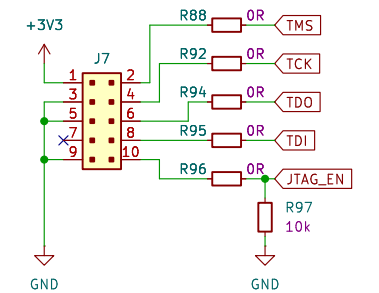
FPGA CONFIGURATION

CONFIGURATION FLASH

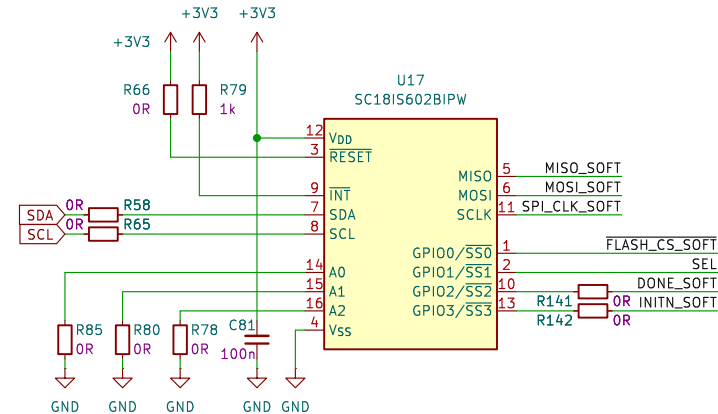


JTAG CONNECTOR

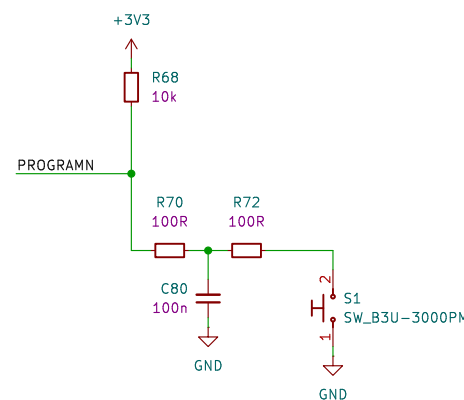
PinHeader_2x5_P2mm_Drill0.71mm_Shrouded



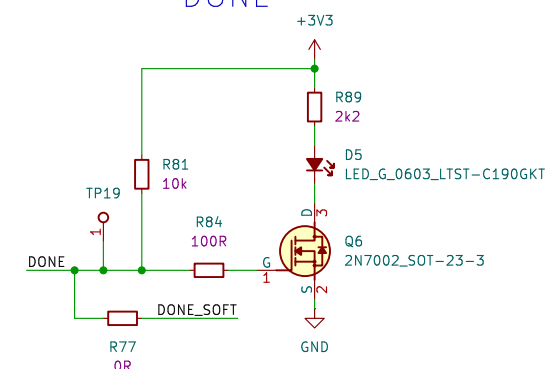
I2C TO SPI BRIDGE



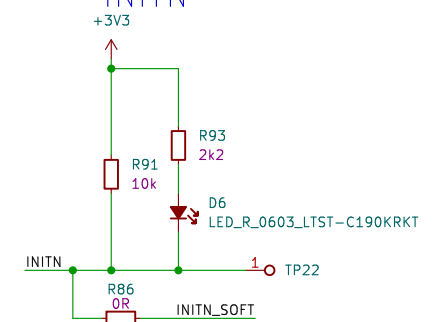
PROGRAMN



DONE



INITN



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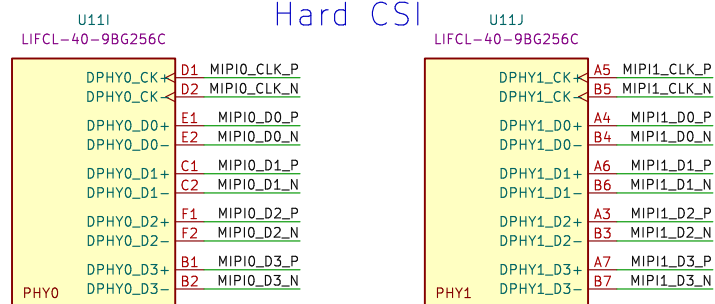
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Title: SDI-MIPI Video Converter

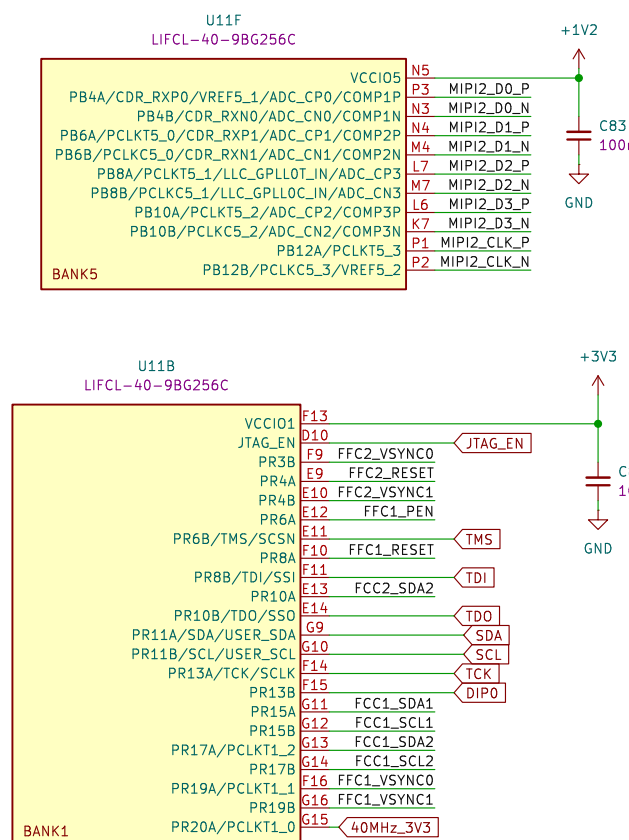
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KiCad E.D.A. 9.0.5

Rev: 1.1.4:5e181748
Id: 6/7

FPGA Hard CSI

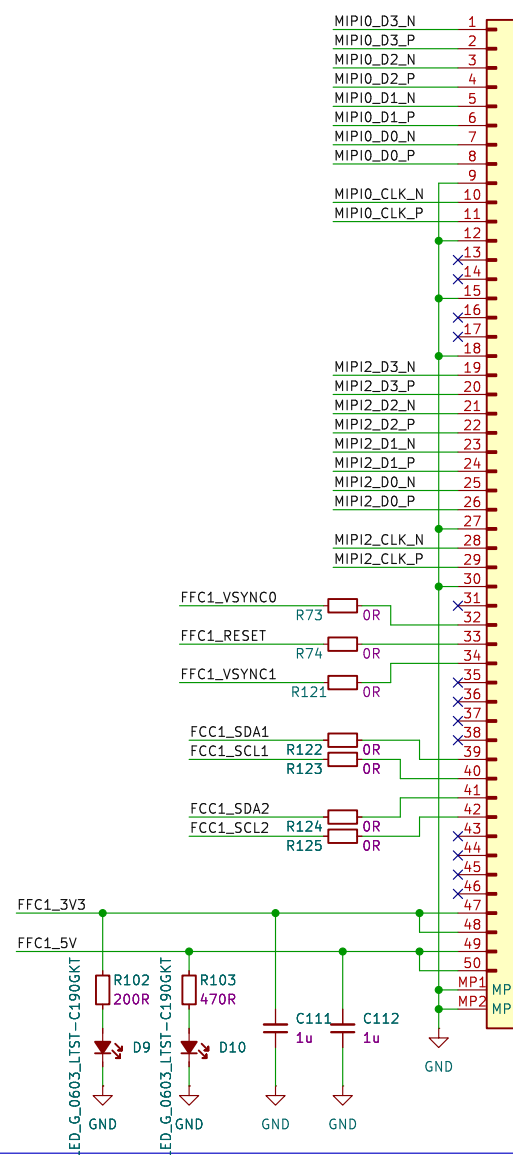


Soft CSI

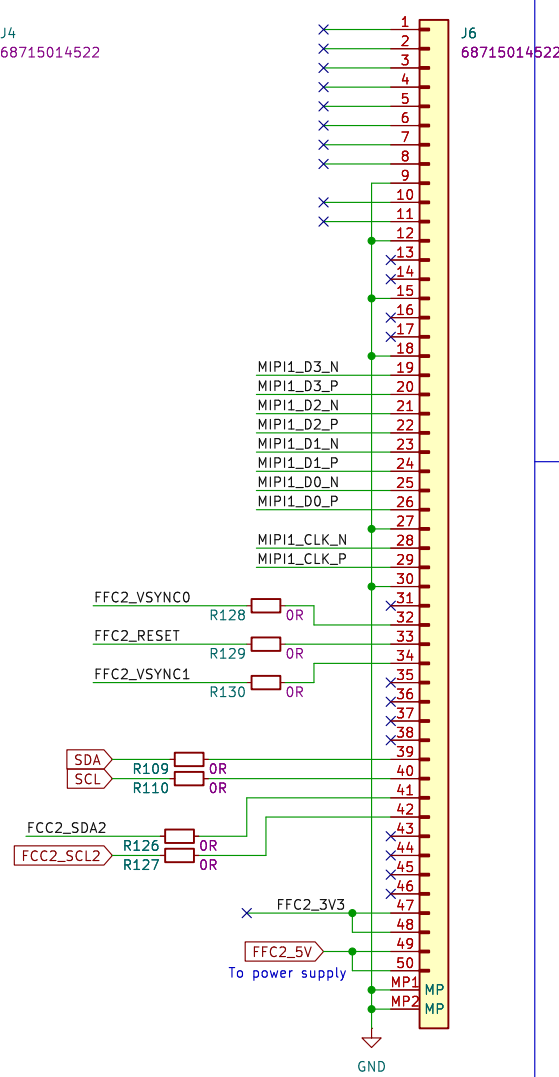


CSI Connectors

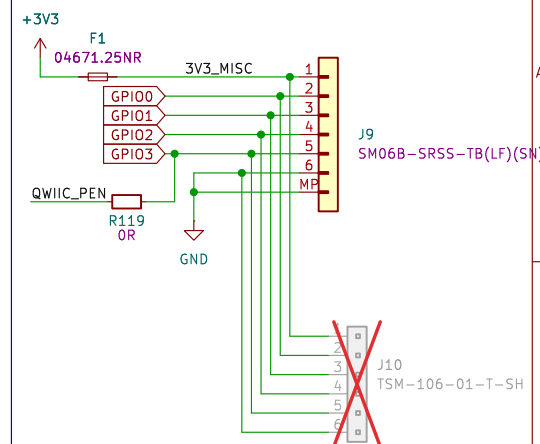
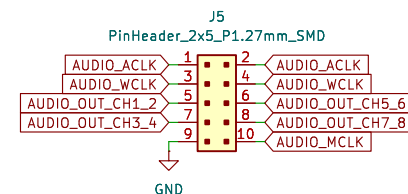
FFC1 POWER SOURCE



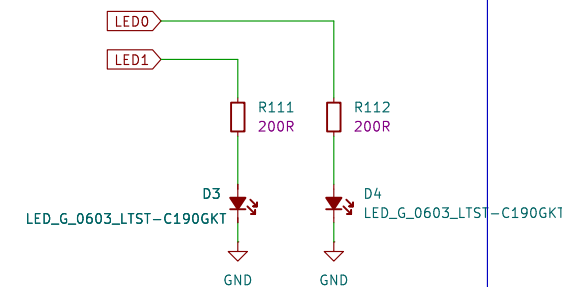
FFC2 POWER SINK



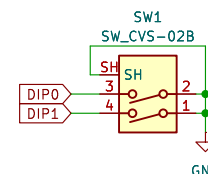
I2S CONNECTOR GPIO CONNECTOR



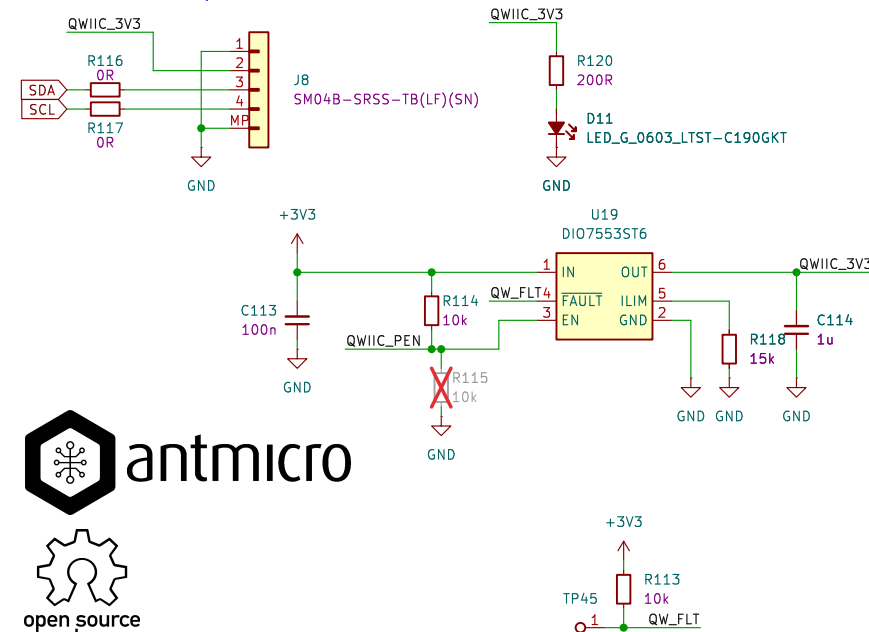
USER LEDs



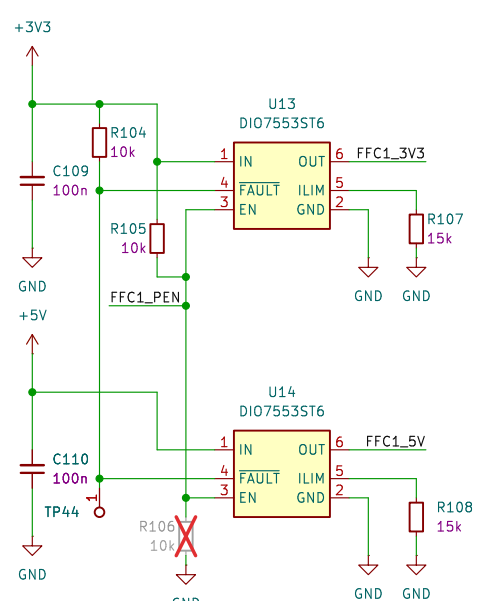
USER SWITCH



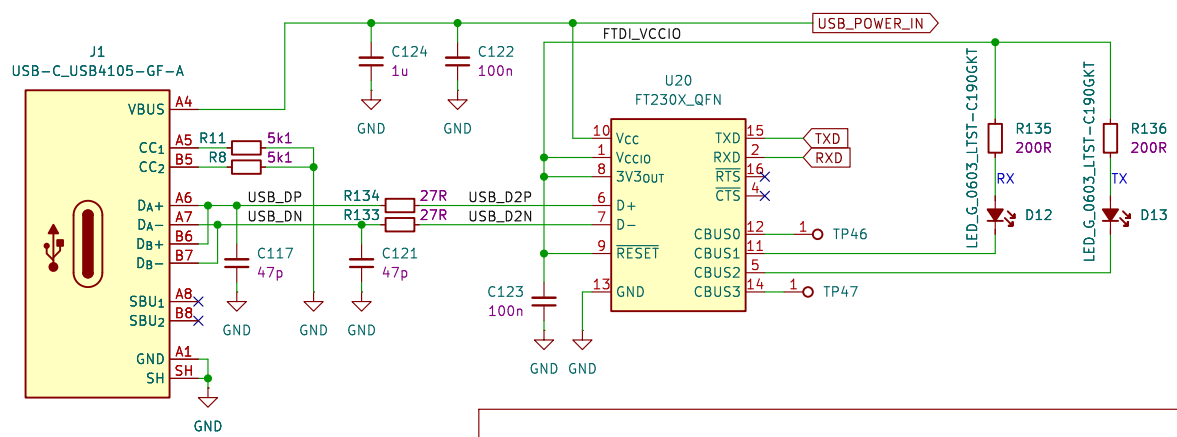
QWIIIC CONNECTOR

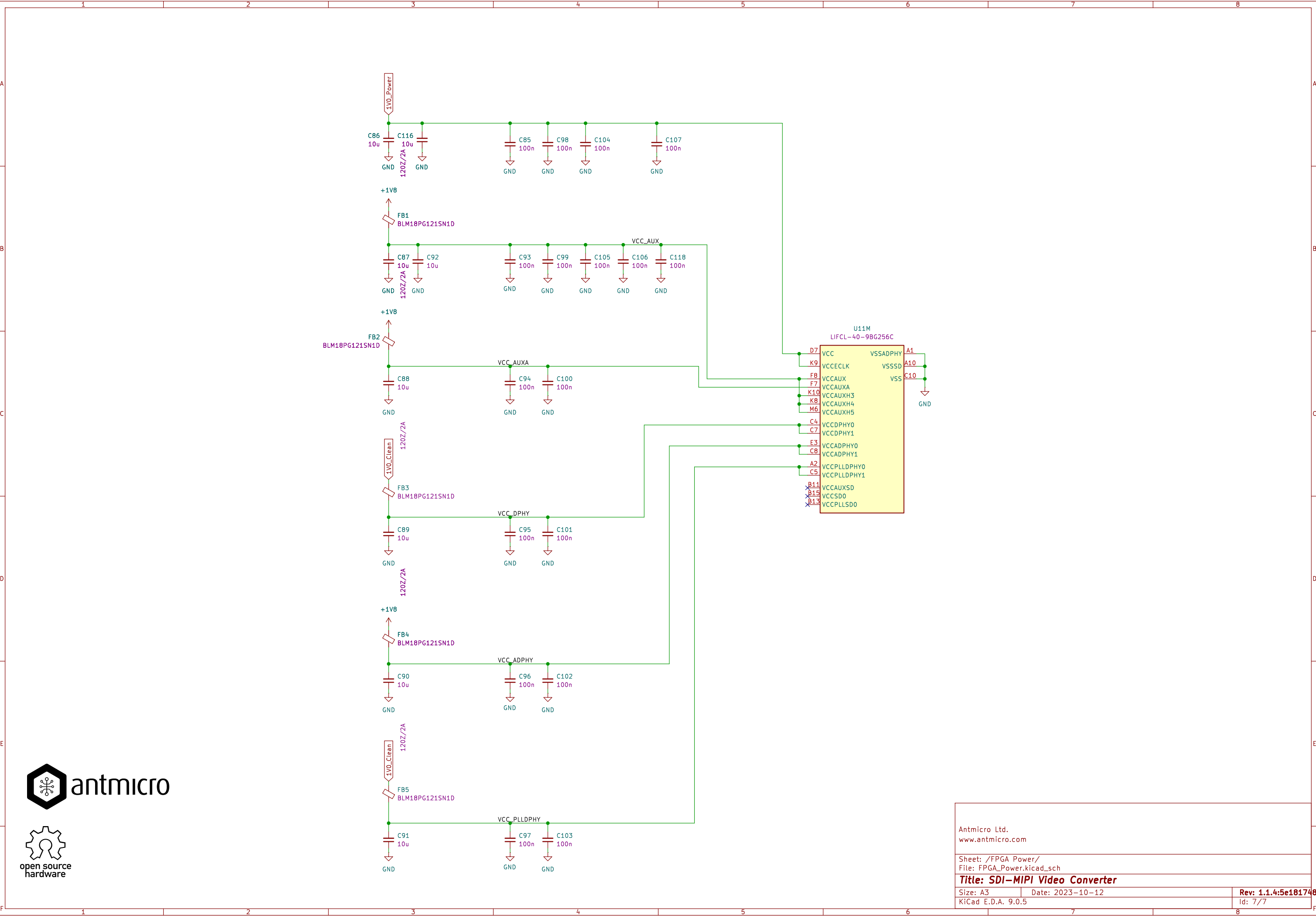


FFC1 POWER SWITCH



USB-C CONNECTOR





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Sheet: /FPGA Power/ File: FPGA_Power.kicad_sch		
Title: SDI-MIPI Video Converter		
Size: A3	Date: 2023-10-12	Rev: 1.1.4:5e181748
KiCad E.D.A. 9.0.5		Id: 7/7