

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



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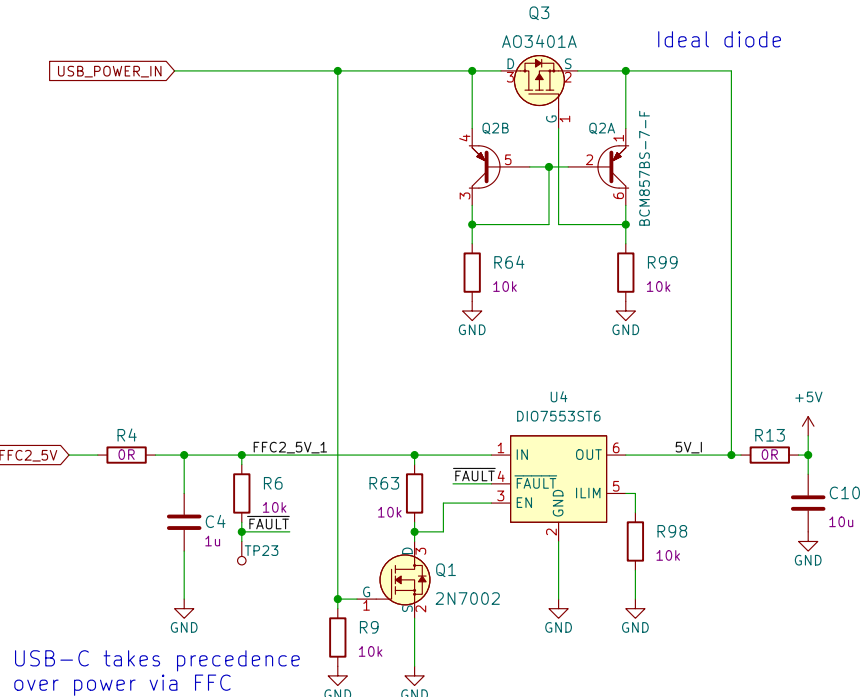
Sheet: /  
File: sdi-mipi-cross-converter.kicad\_sch

**Title: SDI-MIPI Cross Converter**

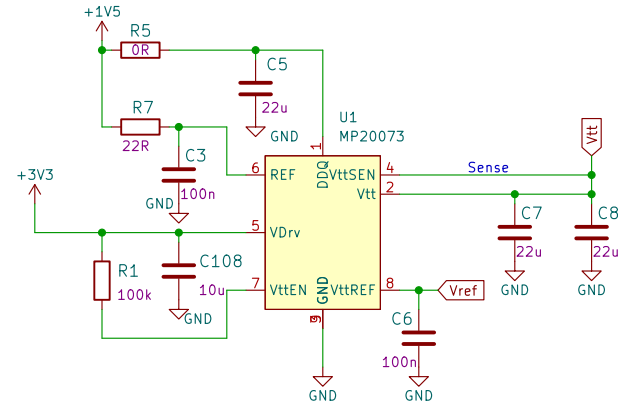
Size: A3 Date: 2022-10-27  
KiCad E.D.A. eeschema 6.0.5+dfsg-1-bpo11+1

Rev: 1.1.0  
Id: 1/7

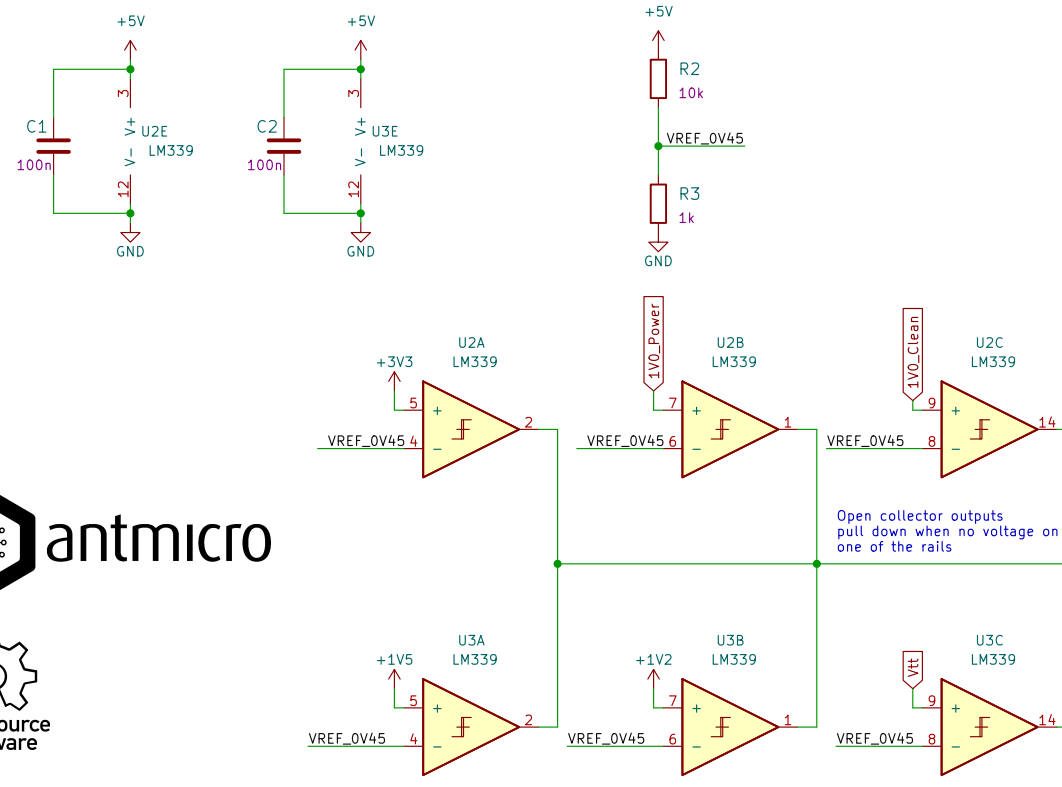
## SUPPLY SELECTION



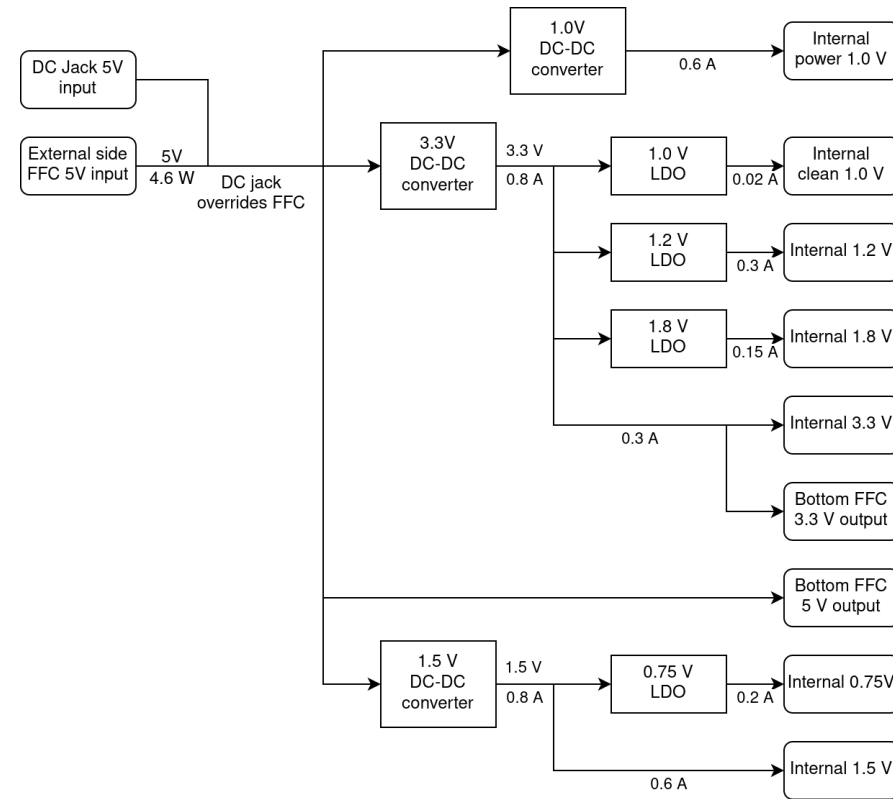
## DDR MEMORY TERMINATION SUPPLY



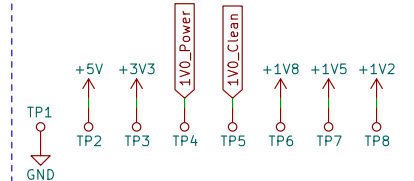
## POWER INDICATORS



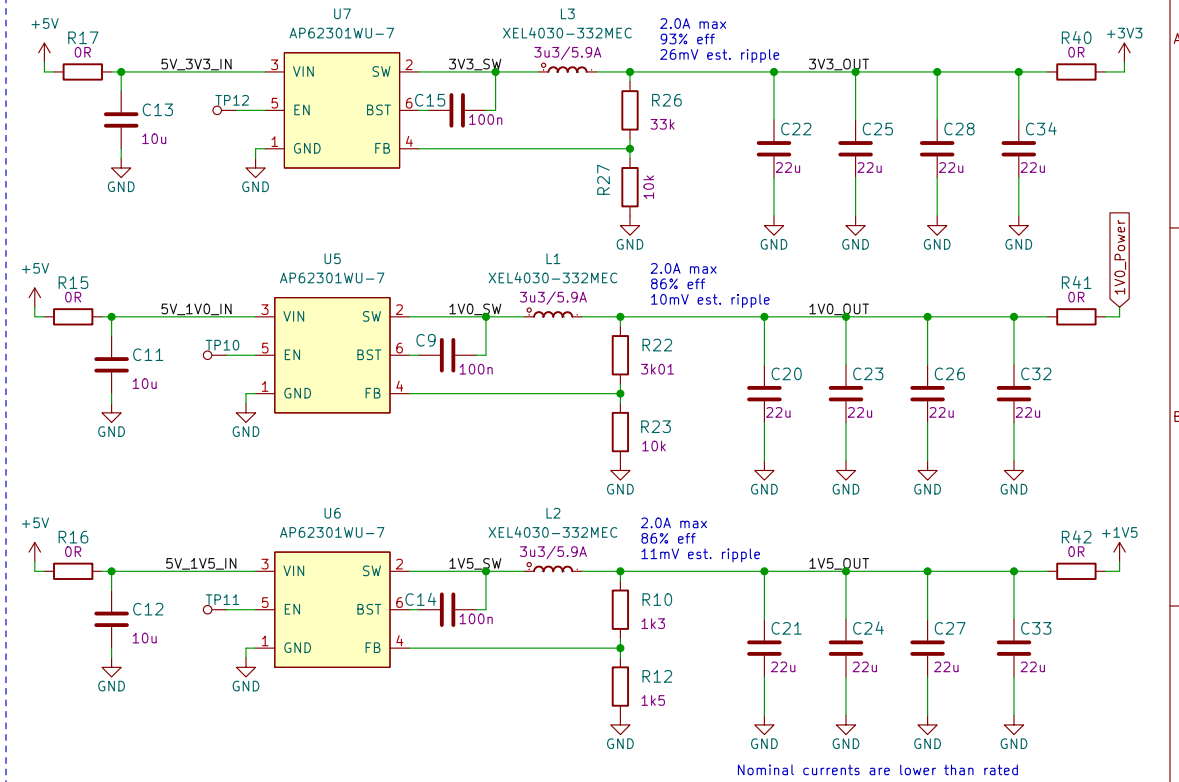
## PS BLOCK DIAGRAM



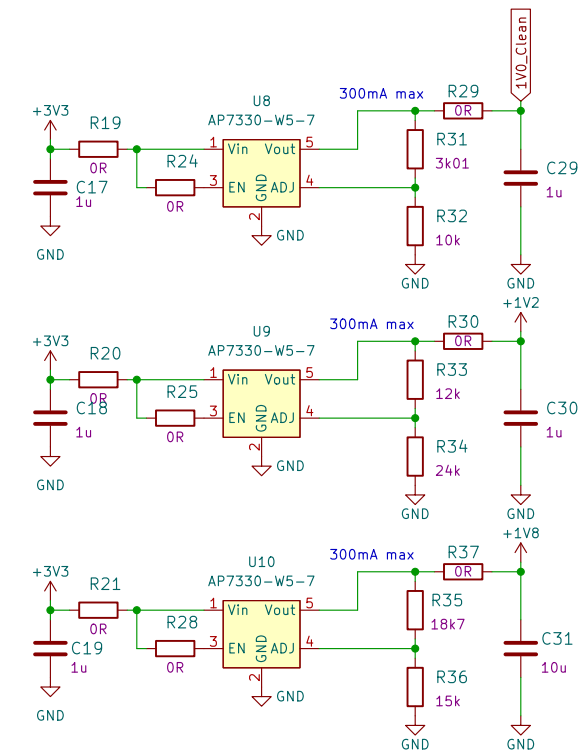
## TEST POINTS



## CONVERTERS



## LDOs



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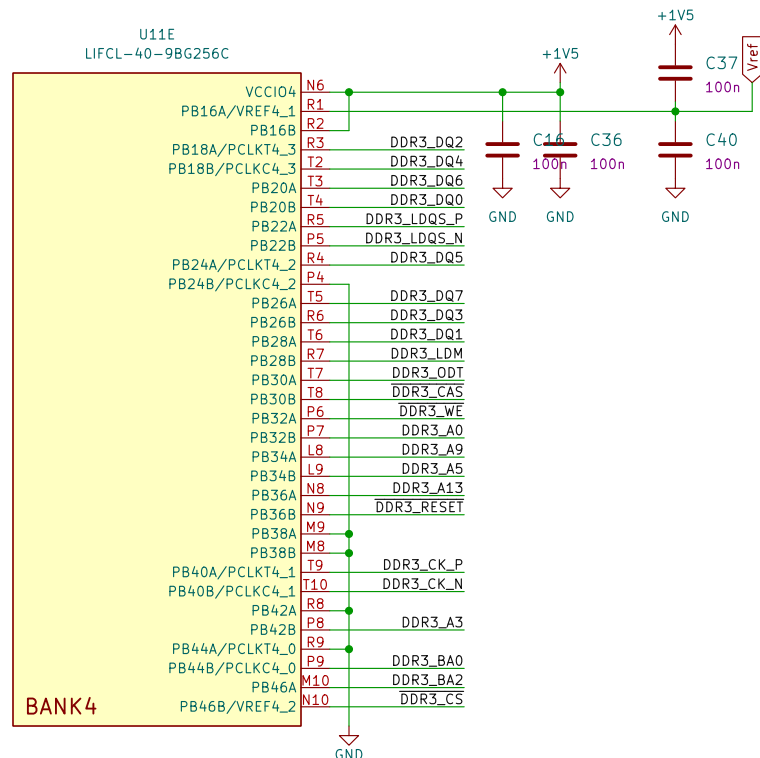
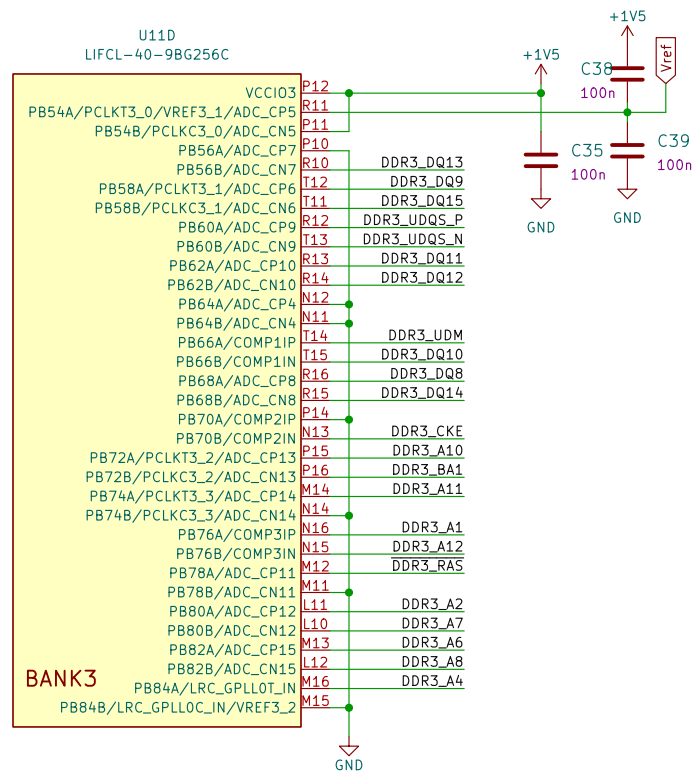
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File: supply.kicad\_sch

Title: SDI-MIPI Cross Converter

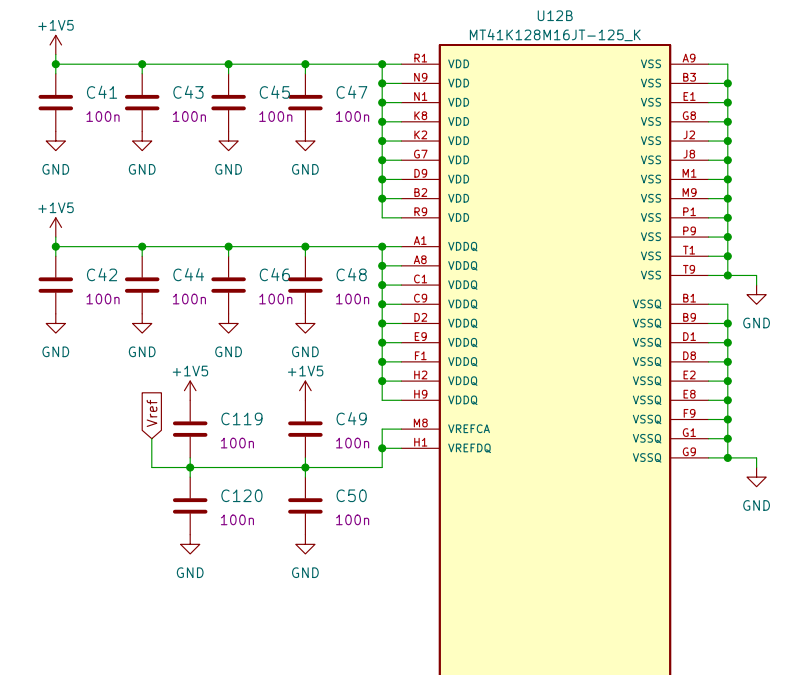
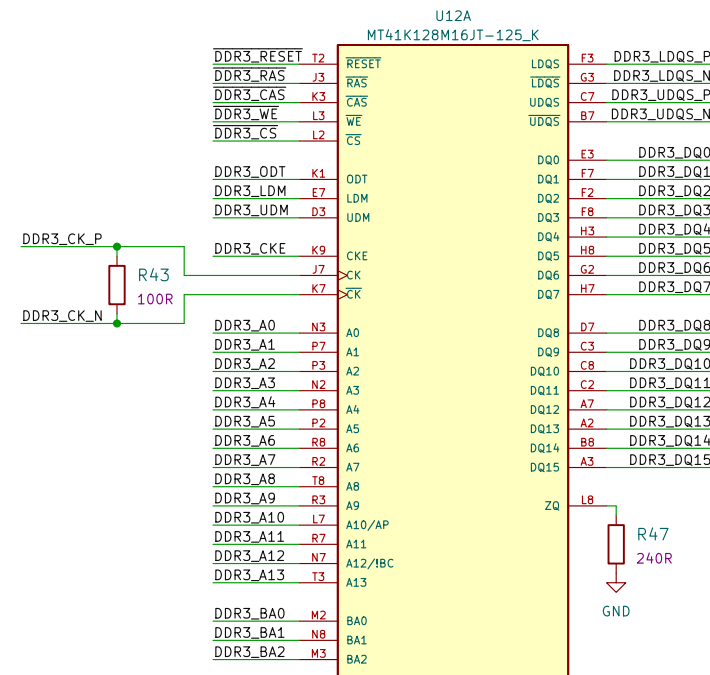
Size: A3 Date: 2022-10-27  
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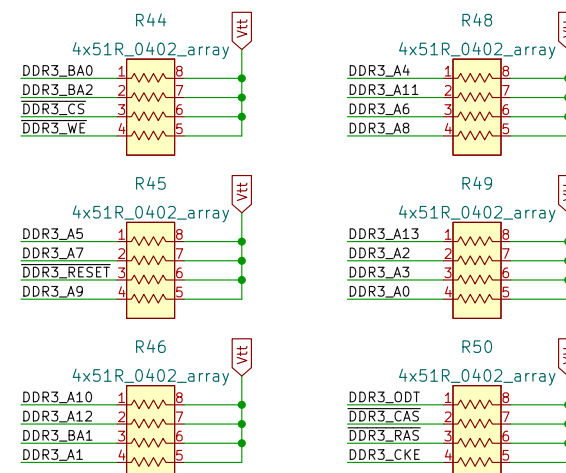
FPGA



RAM



## TERMINATION



Signal terminations can be rearranged for easier routing



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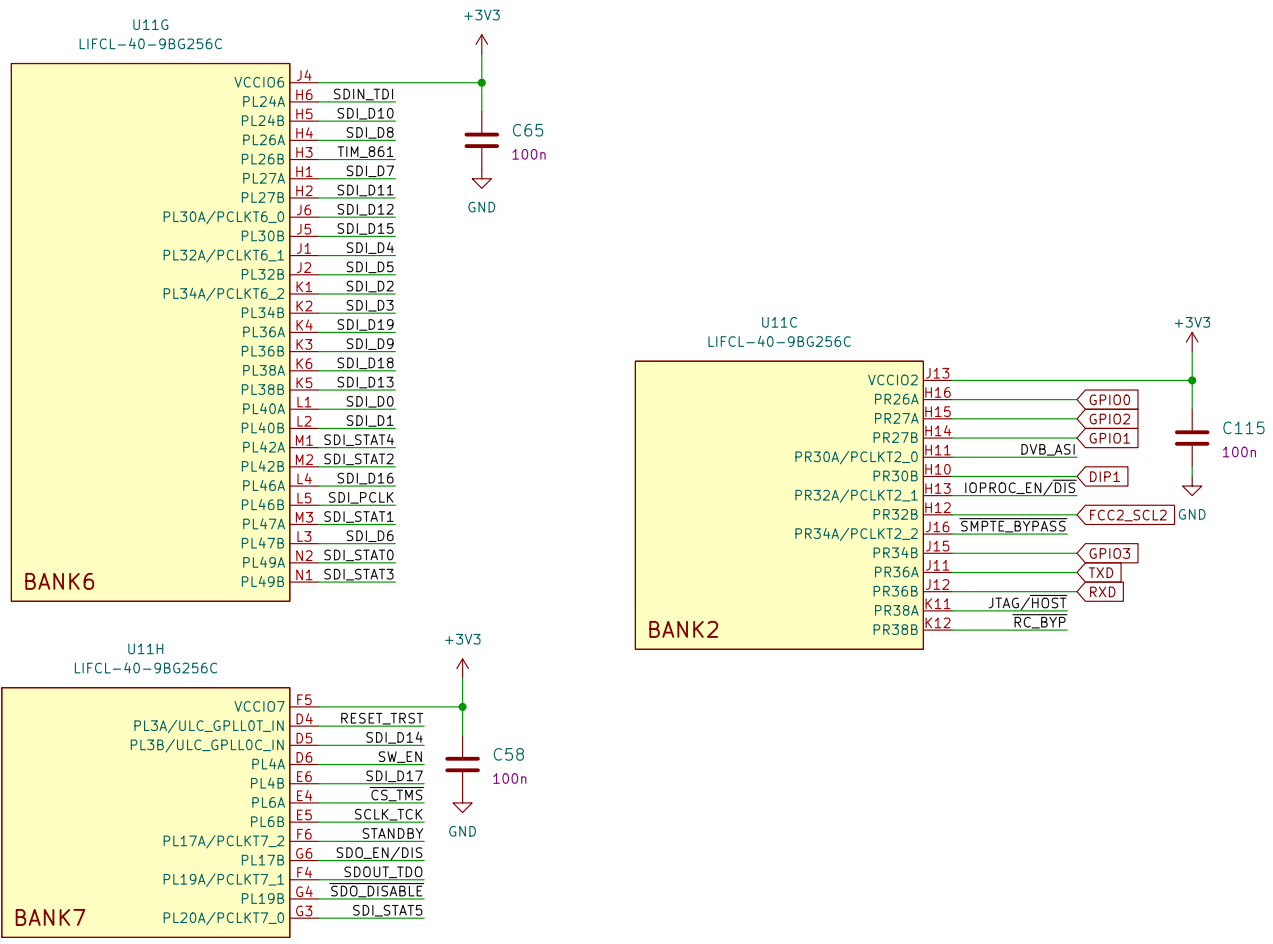
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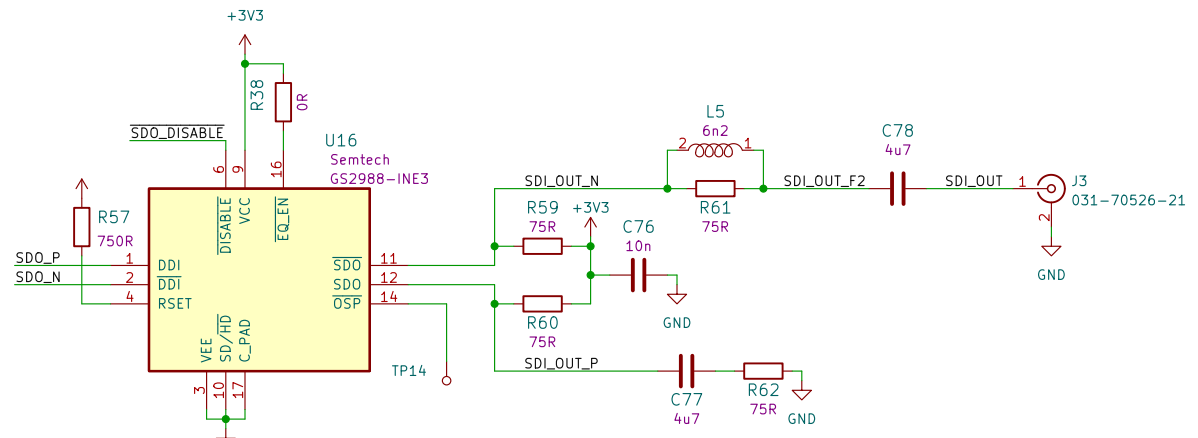
Size: A3	Date: 2022-10-27
KiCad E.D.A. eeschema 6.0.5+dfsg-1~bpo11+1	

Rev: 1.1.0  
Id: 3/7

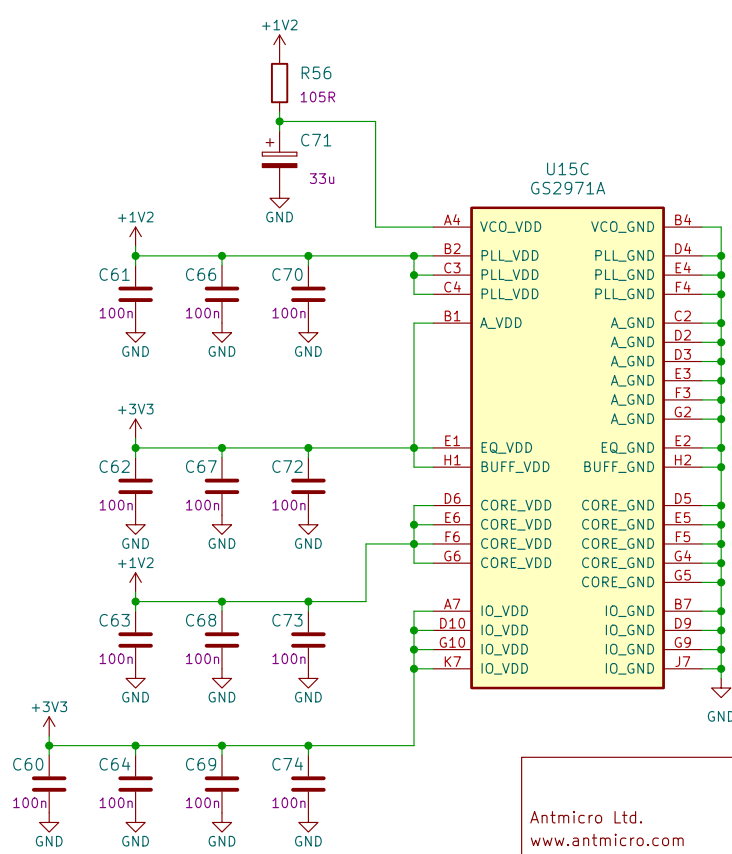
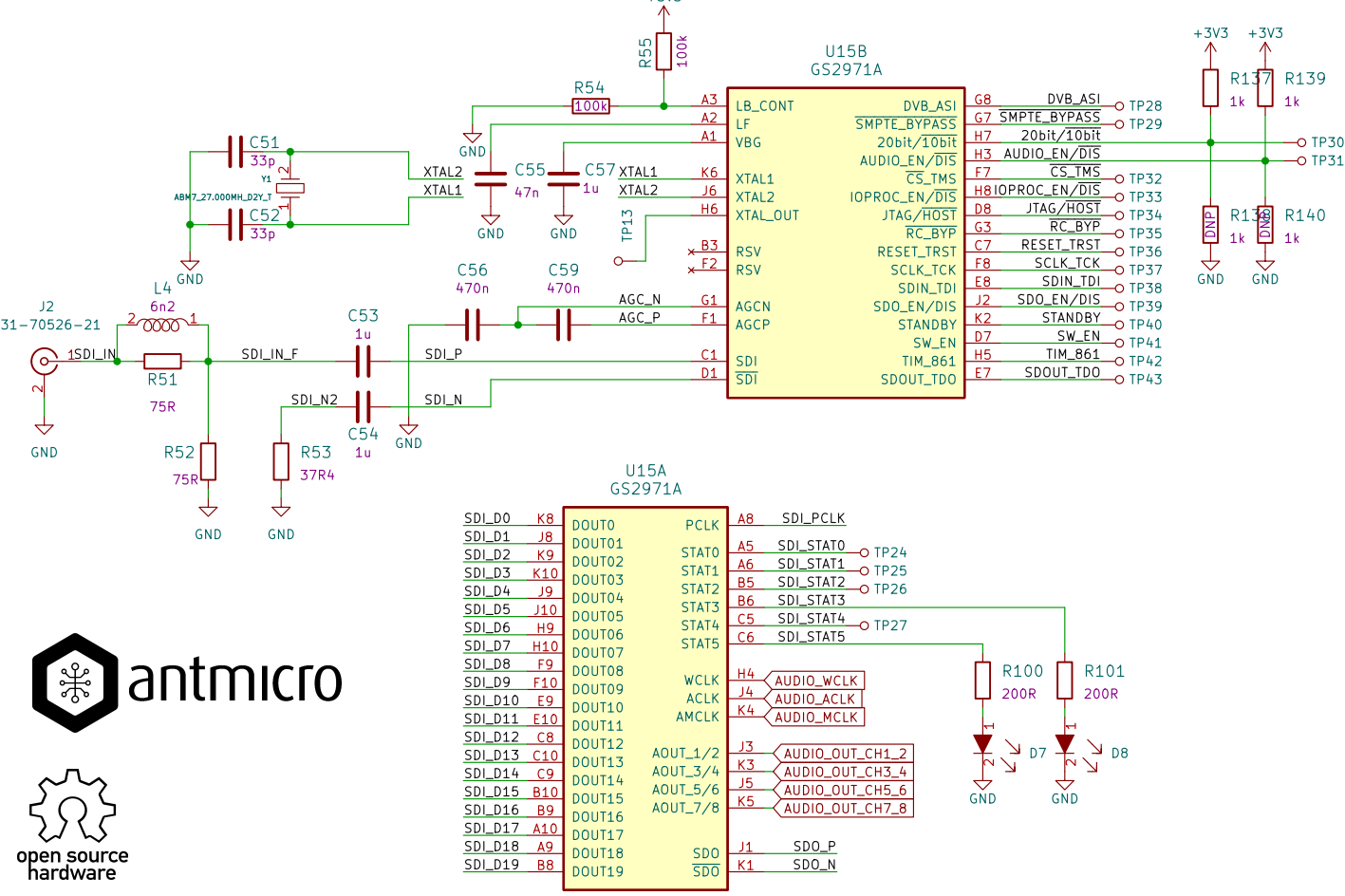
FPGA



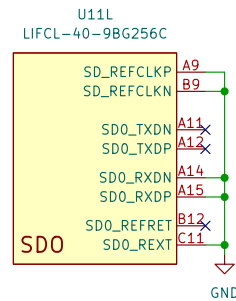
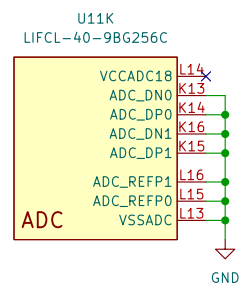
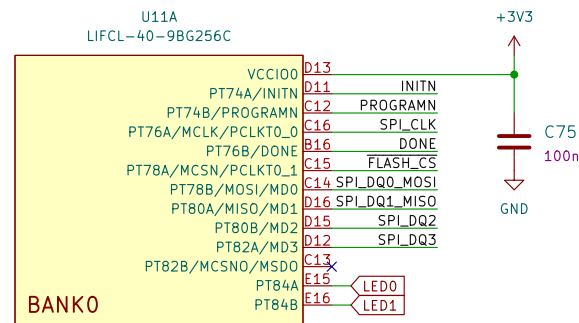
Cable driver



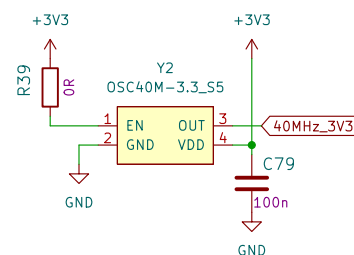
SDI Receiver



# FPGA

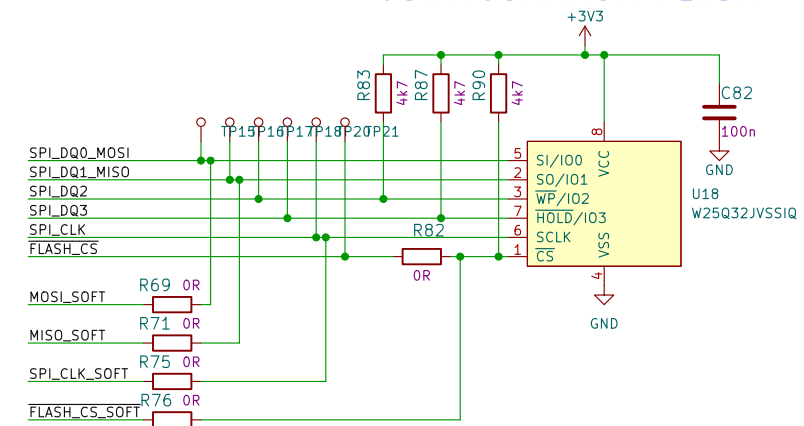


## OSCILLATOR OPTIONAL, NORMALLY DNP

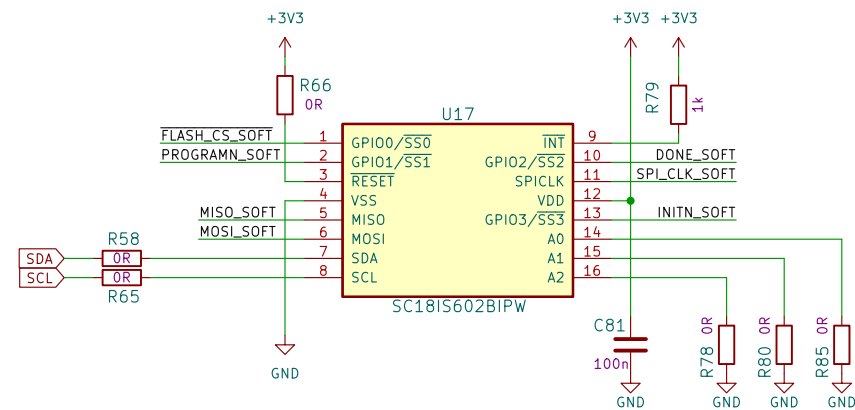


# FPGA CONFIGURATION

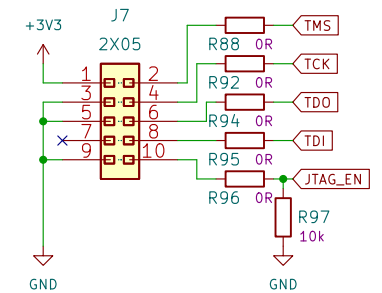
## CONFIGURATION FLASH



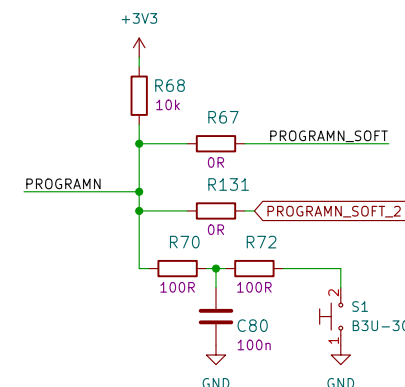
## I2C TO SPI BRIDGE



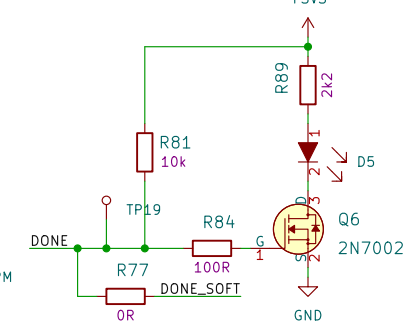
## JTAG CONNECTOR



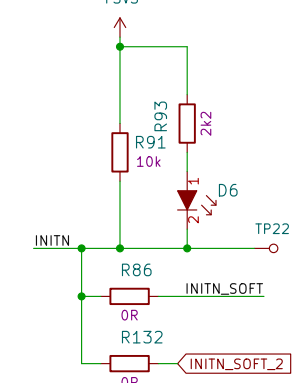
## PROGRAMN



## DONE



## INITN



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Sheet: /FPGA/  
File: fpga.kicad\_sch

**Title: SDI-MIPI Cross Converter**

Size: A3 Date: 2022-10-27

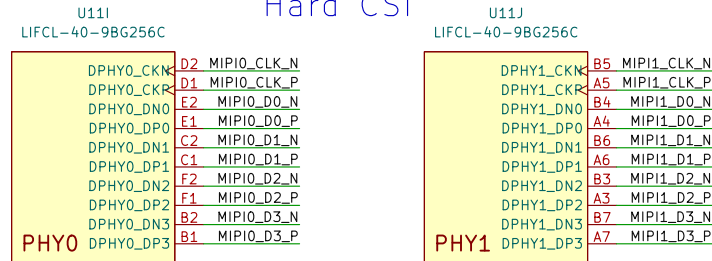
KiCad E.D.A. eeschema 6.0.5+dfsg-1-bpo11+1

Rev: 1.1.0

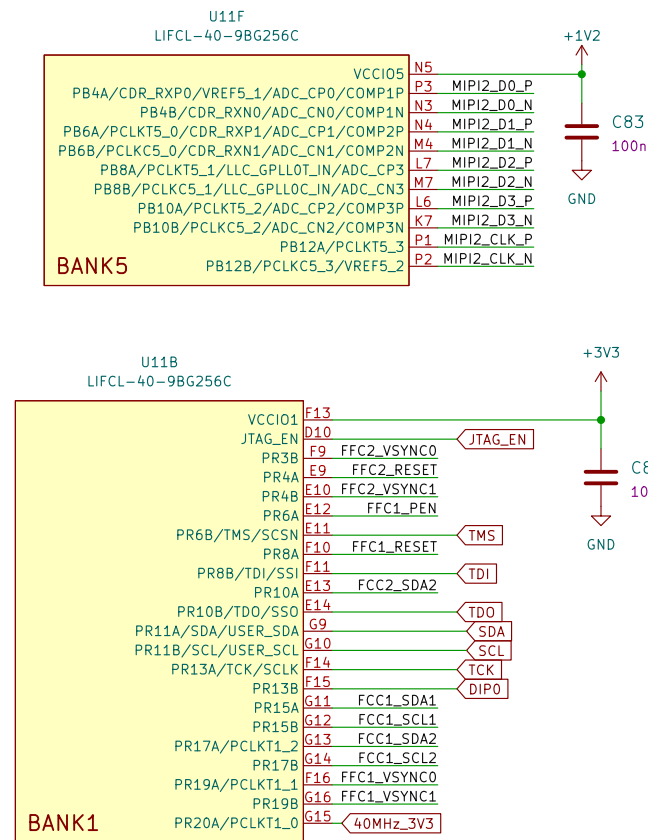
Id: 6/7



## FPGA Hard CSI

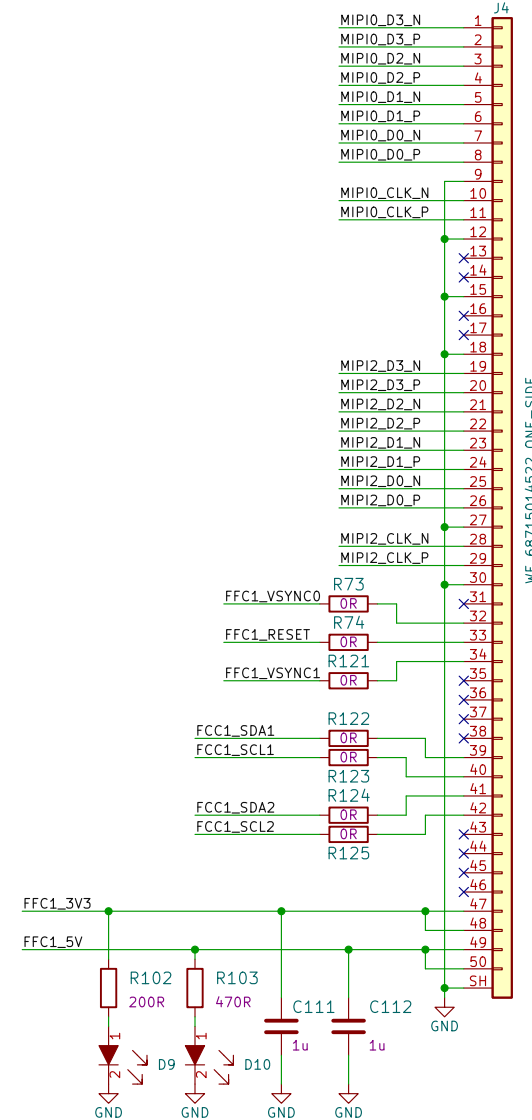


## Soft CSI

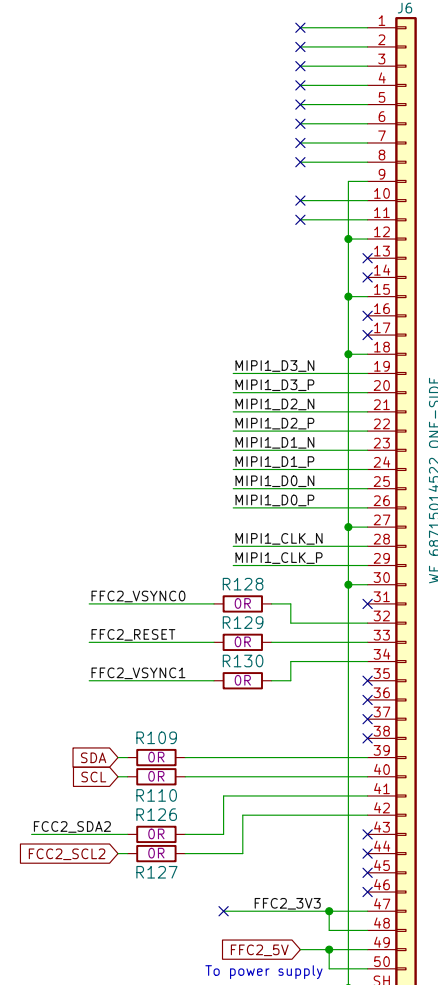


## CSI Connectors

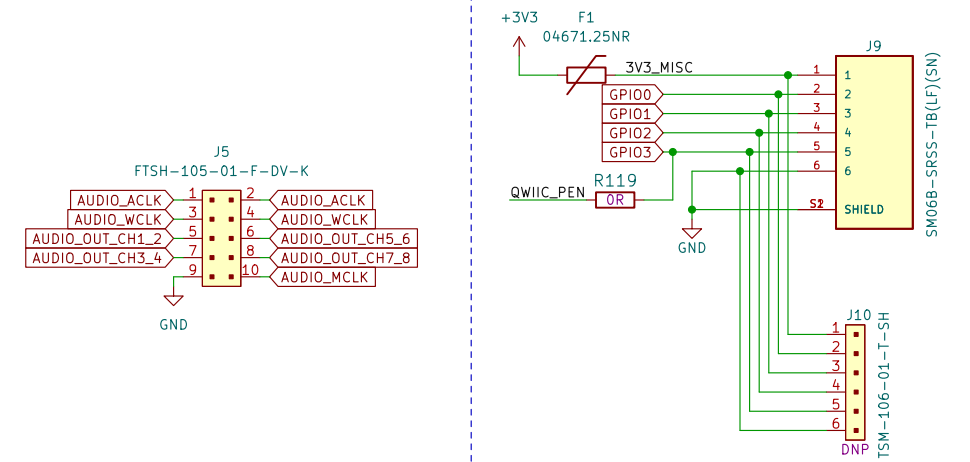
### FFC1 POWER SOURCE



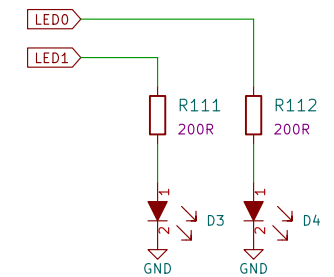
### FFC2 POWER SINK



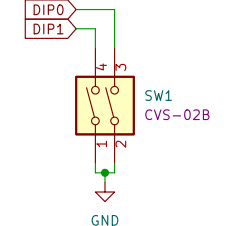
## I2S CONNECTOR GPIO CONNECTOR



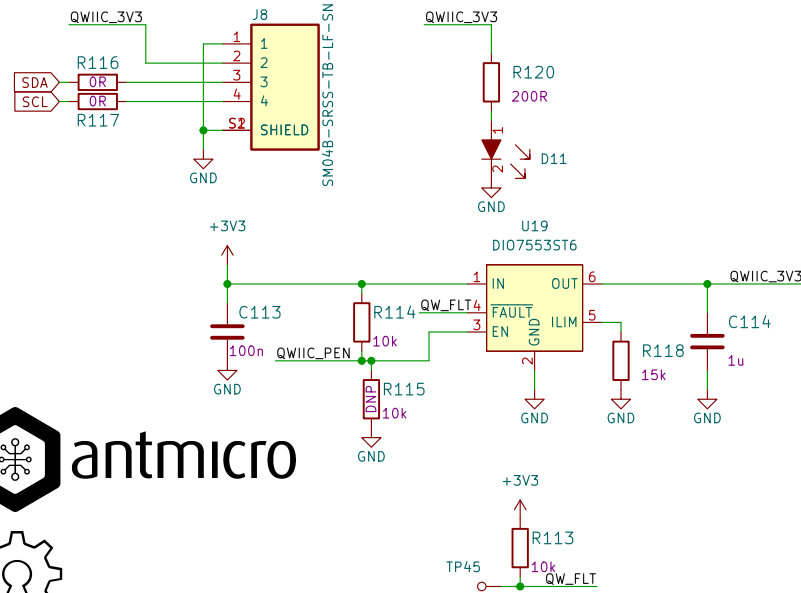
## USER LEDs



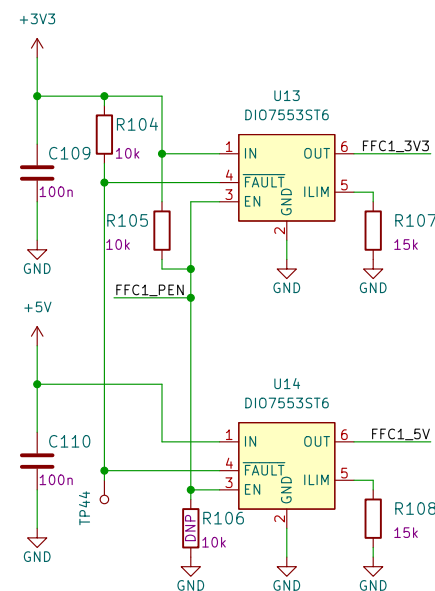
## USER SWITCH



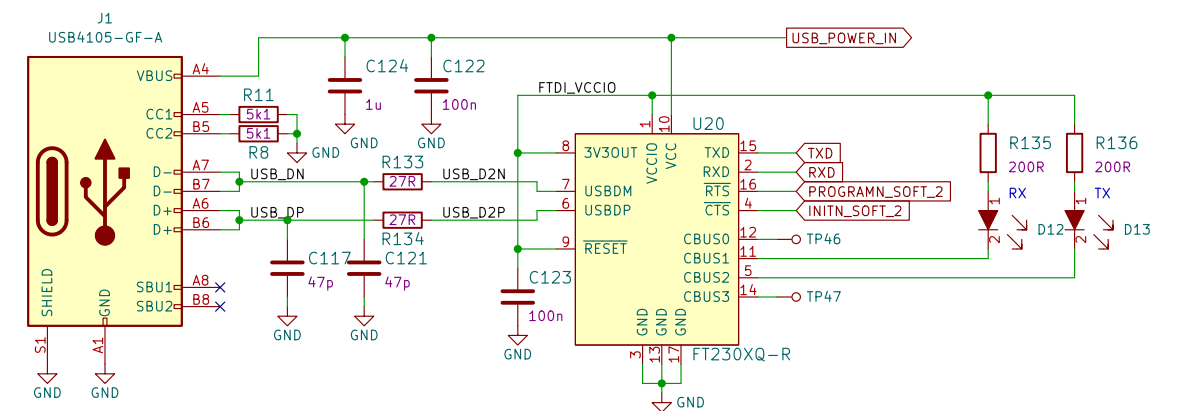
## QWIIC CONNECTOR



## FFC1 POWER SWITCH



## USB-C CONNECTOR



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Sheet: /Peripherals/  
File: peripherals.kicad\_sch

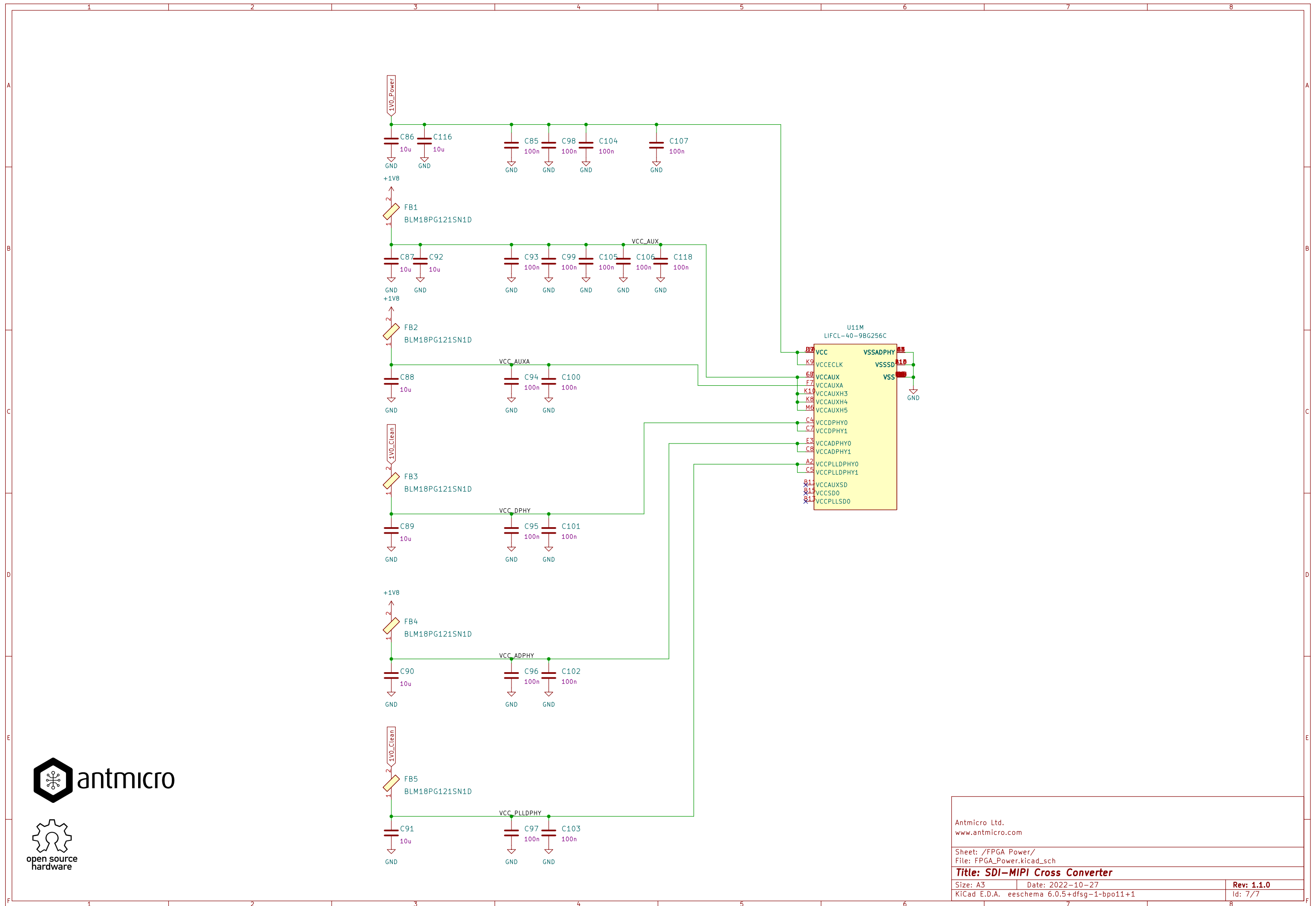
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Size: A3 Date: 2022-10-27

KiCad E.D.A. eeschema 6.0.5+dfsg-1-bpo11+1

Rev: 1.1.0

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Sheet: /FPGA Power/ File: FPGA_Power.kicad_sch		
Title: SDI-MIPI Cross Converter		
Size: A3	Date: 2022-10-27	Rev: 1.1.0
KiCad E.D.A. eeschema 6.0.5+dfsg-1-bpo11+1		Id: 7/7