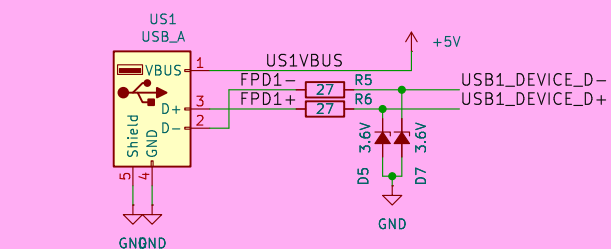


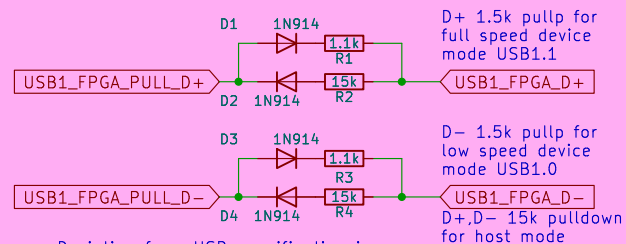
Intergalaktik d.o.o.  
License: CERN-OHL-S v2  
Year: 2025.

Olimex board is delivering MAX 2.5V on connector.  
You can use 2.5V output signals for 3.3V.  
Be carefull FPGA input only tolerate MAX 2.5V!

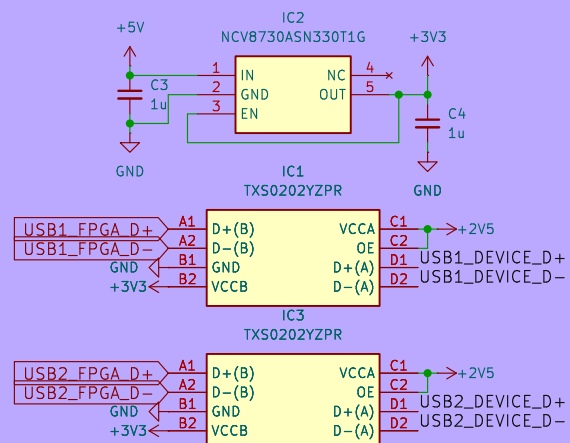
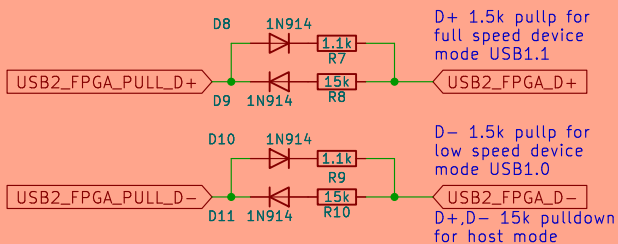
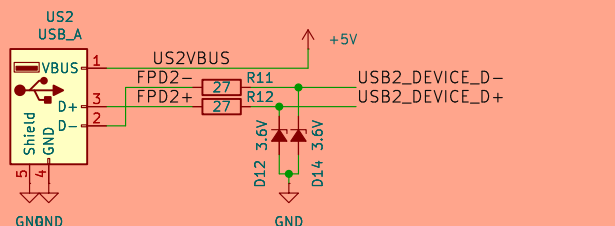
Set and Voltage on BANK 1.2V/1.8V/2.5V  
STEP UP can boost any of those voltages  
to 3.3V/5V depending on selected chip



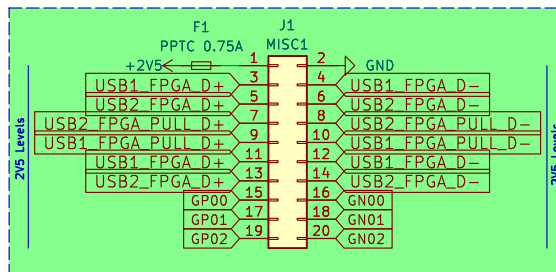
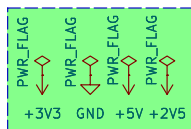
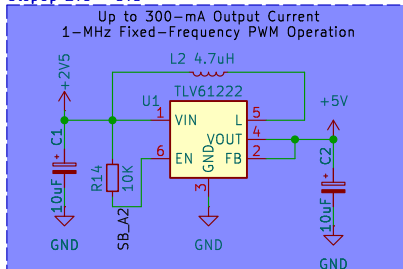
D5,D7: Schottky 2A/30V  
Low drop Vfmax=0.375V  
Parts reduction: Only D5 is required.  
D6, D13 can be 1206  
1A polyfuses or 0-ohm/2A jumpers



Deviation from USB specification in pulldowns for BOM simplification. With series diode, correct value R2 R4 should be 12k but 15k is used.



StepUp 2V5>>3V3



CERN-OHL-S v2  
Intergalaktik d.o.o.

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**Title: USB v0.1**

**Title: USB v0.1**

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Date: 2025-27-03

KiCad E.D.A. 9.0.0

Rev: v0.1

Id: 1/1