Olimex Extension Template v0.1

Project creator: Intergalaktik d.o.o.
Project License: CERN-OHL-S v2
Year: 2024.

Change project informations under.
File>>Schamatic Setup>>Text Variables

!!
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!
!!

!!!
2.5V input is connected over 500mA resetable fuse!
Maximum current for 2.5V is set to 500mA.
It may be possible to drain more current but
you will need add different FUSE and use it at your own risk!
3.3V step up is limited to 300mA
Idea behind limits is that you can use all 3 extensions slots
at once without any risk od draining to much!
!!!

!!
There is same pinout part for 5V step up.
So you can have 5V with just one IC change.
For more details check Power page.
!!

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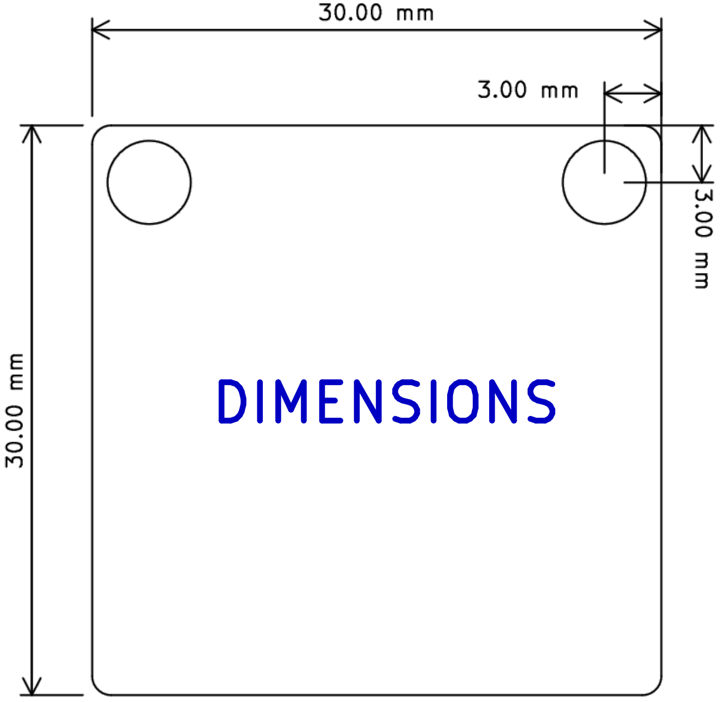
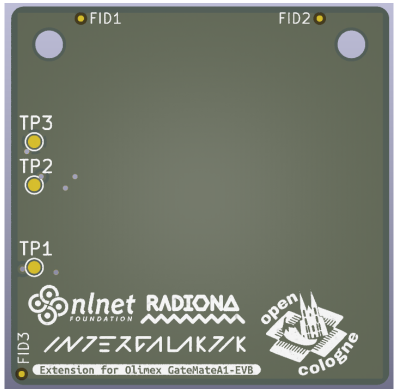
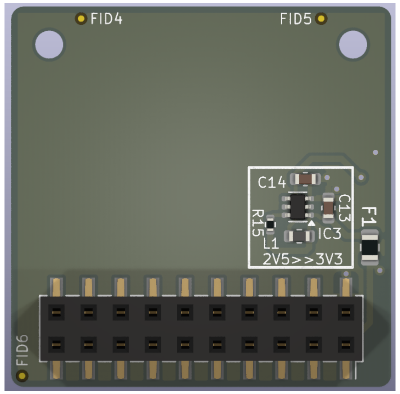


Replace bottom 3D images with your PCB

TOP VIEW



BOTTOM VIEW

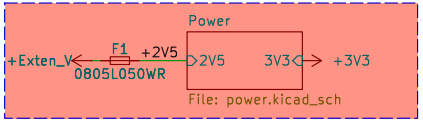


Main Sheet
File: main.kicad_sch

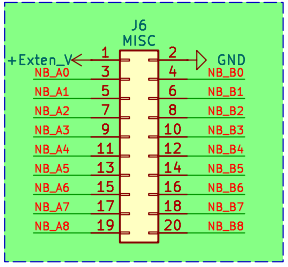
Intergalaktik d.o.o.
Sheet: /
File: extension_template.kicad_sch
Title: Olimex Extension Template v0.1
Size: A4 Date: 2024-12-02 **Rev: v0.1**
KiCad E.D.A. 8.0.4 Id: 1/3

Main Page

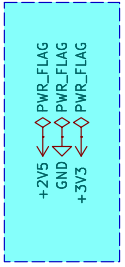
2V5 over Resettable Fuses – PPTC 0.50A 6V 0805 >3V3



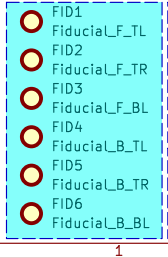
OLIMEX CONNECTOR



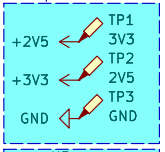
POWER FLAGS

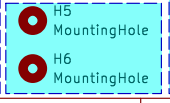


Fiducials



TEST points





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Sheet: /Main Sheet/

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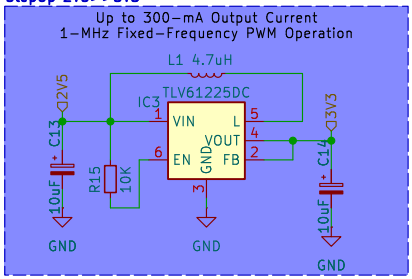
Power Page

StepUp 2V5>>3V3



Replace with TPS61222DCKT for 2.5V>>5V

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Sheet: /Main Sheet/Power/

File: power.kicad_sch

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