Olimex Extension camIO v0.1

Intergalaktik d.o.o. 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!

VCC input is connected over 500mA resetable fuse! Maximum current for VCC 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 400mA Idea behind limits is that you can use all 3 extensions slots at once without any risk od draining to much!

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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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2024-12-10

A1 Dedicated clock input pins are: IO_SB_A8: CLKO IO_SB_A7: CLK1 IO_SB_A6: CLK2

IO SB A5: CLK3 You can use them all as differential inputs.

We are not able to use any on extension boards.

It is also possible to use any GPIO as a clock input. The only thing to note here is that the signal must be routed via the routing structure to the entry point of the global clock mesh. These paths are longer than via the dedicated clock pins, which is why it is essential to pay attention to clock skew.

TOP VIEW



Dimension

Main Sheet

File: dimension.kicad_sch File: main.kicad_sch

CERN-OHL-S v2 Intergalaktik d.o.o. Sheet: /

File: camIO.kicad sch

Title: Olimex Extension cam/O v0.1

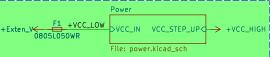
Size: A4 Date: 2024-12-02 Rev: v0.1 KiCad E.D.A. 8.0.4 ld: 1/4

Main Page

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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

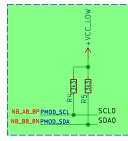
V_IN over Resettable Fuses - PPTC 0.50A 6V 0805



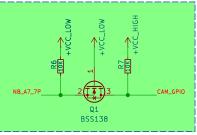


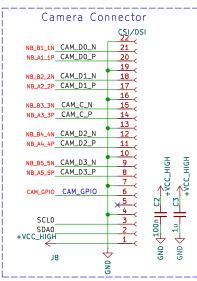


I2C PULL_UP



CAM_GPIO should be 3V3 level





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CERN-OHL-S v2

Intergalaktik d.o.o.

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