# 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!

#### ......

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

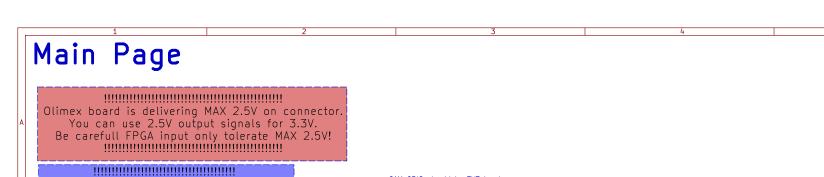
File: dimension.kicad\_sch File: main.kicad\_sch

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

File: camIO.kicad sch

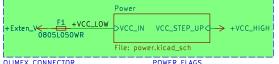
Title: Olimex Extension cam/O v0.1

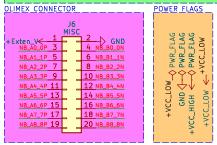
Size: A4 Date: 2024-12-02 Rev: v0.1 KiCad E.D.A. 8.0.4 ld: 1/4

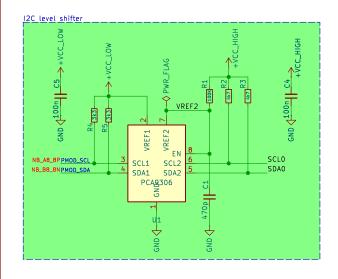


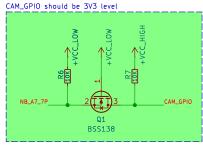
Set and Voltage on BANK 1.2V/1.8V/2.5V STEP UP can boost any of those voltages to 3.3V/5V depending on selected chip

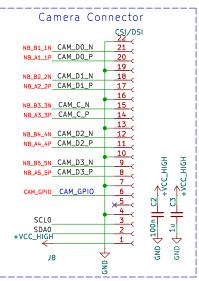
V\_IN over Resettable Fuses - PPTC 0.50A 6V 0805











- 5	iducials	TEST points								
	O FID1 Fiducial_F_TL									
Ì	O FID2 Fiducial_F_TR		O H1 Logo Int		CERN-OHL-S v2					
	O FID3 Fiducial_F_BL	→ TP3	O H2 Logo NL		Intergalaktik d.o.					
				Lnet	Sheet: /Main She					
	O FID4 Fiducial_B_TL	H5	O H3 Logo Op	penCologne	File: main.kicad_	sch				D
	O FID5 FiduciaLB_TR	MountingHole	O H4 Logo Ra	l ediona l	Title: Olimex	Extension	on camio vo.1			
	FID6     Fiducial_B_BL	M6			Size: A4	Date: 202	24-12-02		Rev: v0.1	
į	Fiducial_B_BL	MountingHole			KiCad E.D.A. 8.0.	4			ld: 2/4	
		3			4			5	•	6

