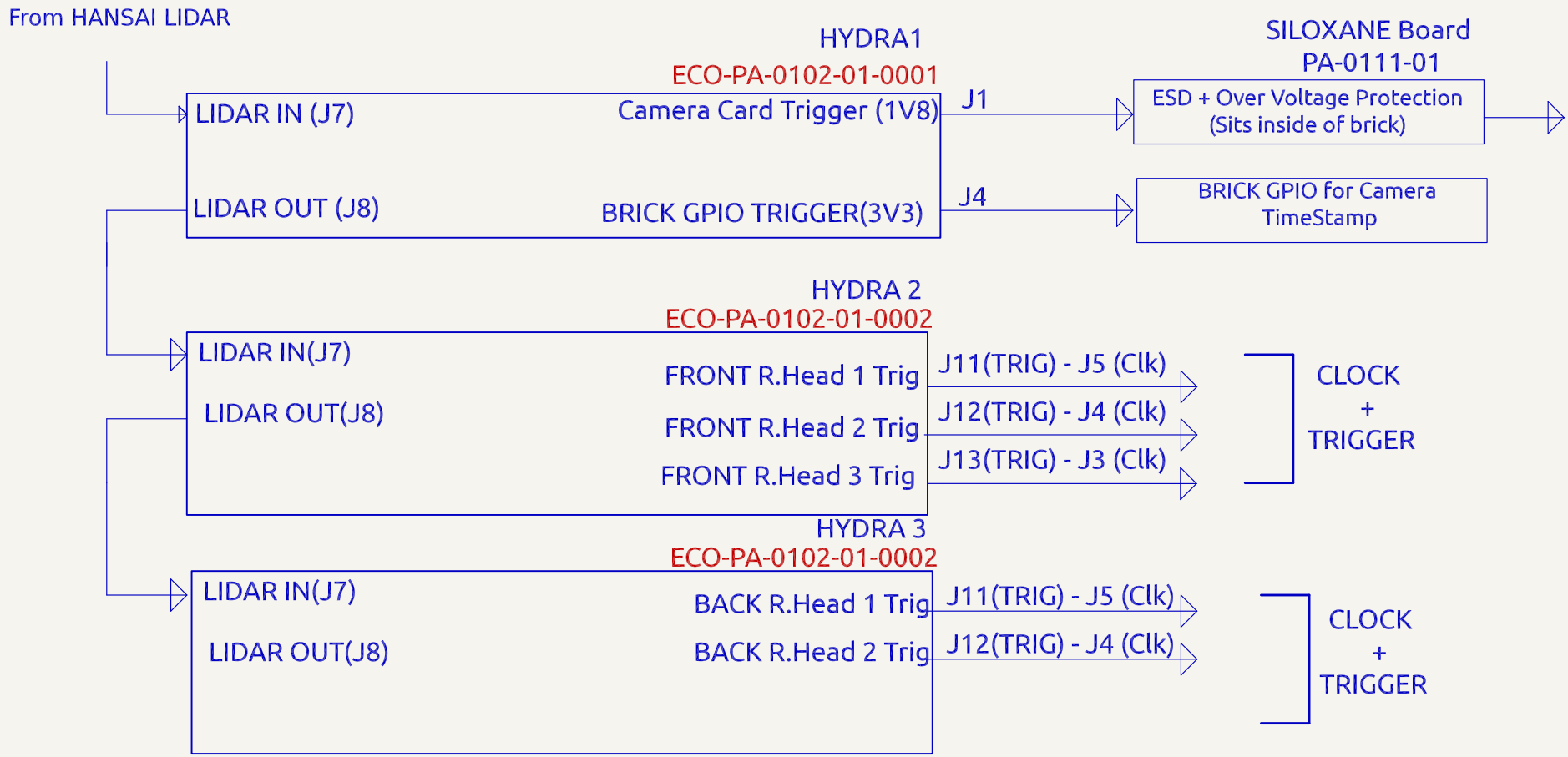
ML ZEN-CAR RECORDING SETUP V5



NOTE :

1. HYDRA 1 is running at 40MHz (InCase we want to swap and still use a externl triggered R.Head)
2. HYDRA 2 & HYDRA 3 is running at 40Mhz internal clock @ 0v9 Vpp

Navneet Singh

ECO-PA-0102-01-0001

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ECO-PA-0102-01-0002

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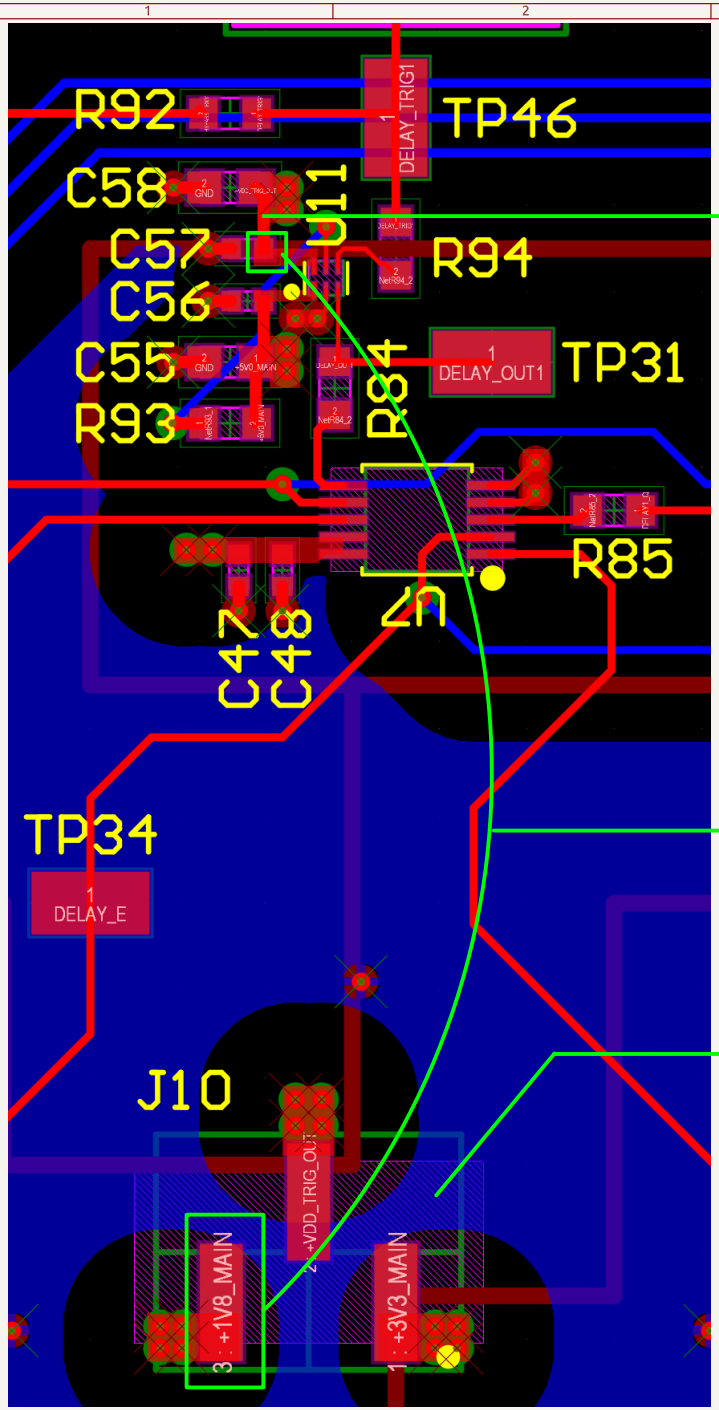
KiCad E.D.A. 8.0.6 | Id: 1/3

ECO-PA-0102-01-0001

NOTE THIS EDIT IS REQUIRED TO CREATE 1
1V8 TRIGGER and LEAVE REST TO 3V3 TRIGGER VOLTAGE



CUT THIS TRACE

SHORT THESE 2 POINTS USEING ENAMIL COATED WIRE

STANDARD ELECTRICAL SHORT JUMPER
MUST BE BETWEEN PIN 1 & 2

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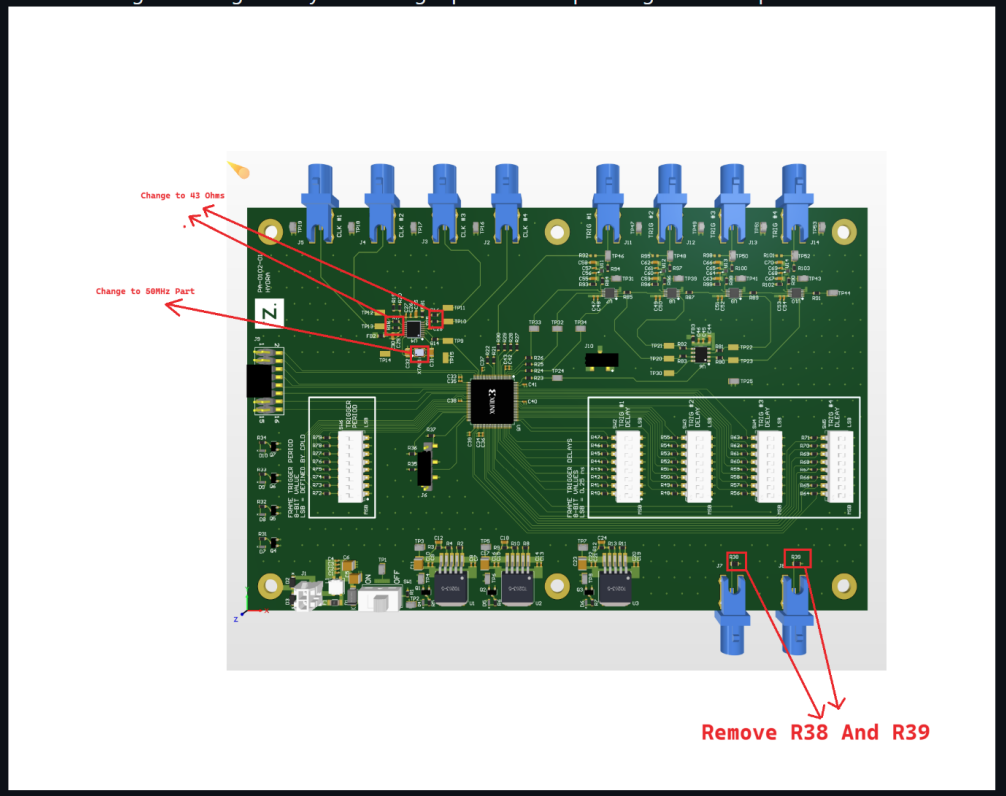
KiCad E.D.A. 8.0.6		Id: 2/3

ECO-PA-0102-01-0001

NOTE THIS EDIT IS REQUIRED TO CREATE 50MHz HYDRA

Hydra PCB Changes

Follow the instructions to convert the PA-0102-01(Standard Hydra Asembly) to a 50MHz Hydra system.
Change 1 : Change the clock lines resistance to 43 Ohms. R15,R16,R17,R18 to 43 Ohms.
(can be avoided) Change 2 : Modify the cyrstal at position XTAL_1 to ECS-500-18-33-AGM-TR. which is a 50MHz crystal oscillator.
Change 3 : Remove the Resistors at position R38 and R39.
Change 4 : Change the crystal Loading capacitors to 36pF. Designators of caps are C31 & C32.



STANDARD ELECTRICAL SHORT JUMPER J10
MUST BE BETWEEN PIN 1 & 2

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