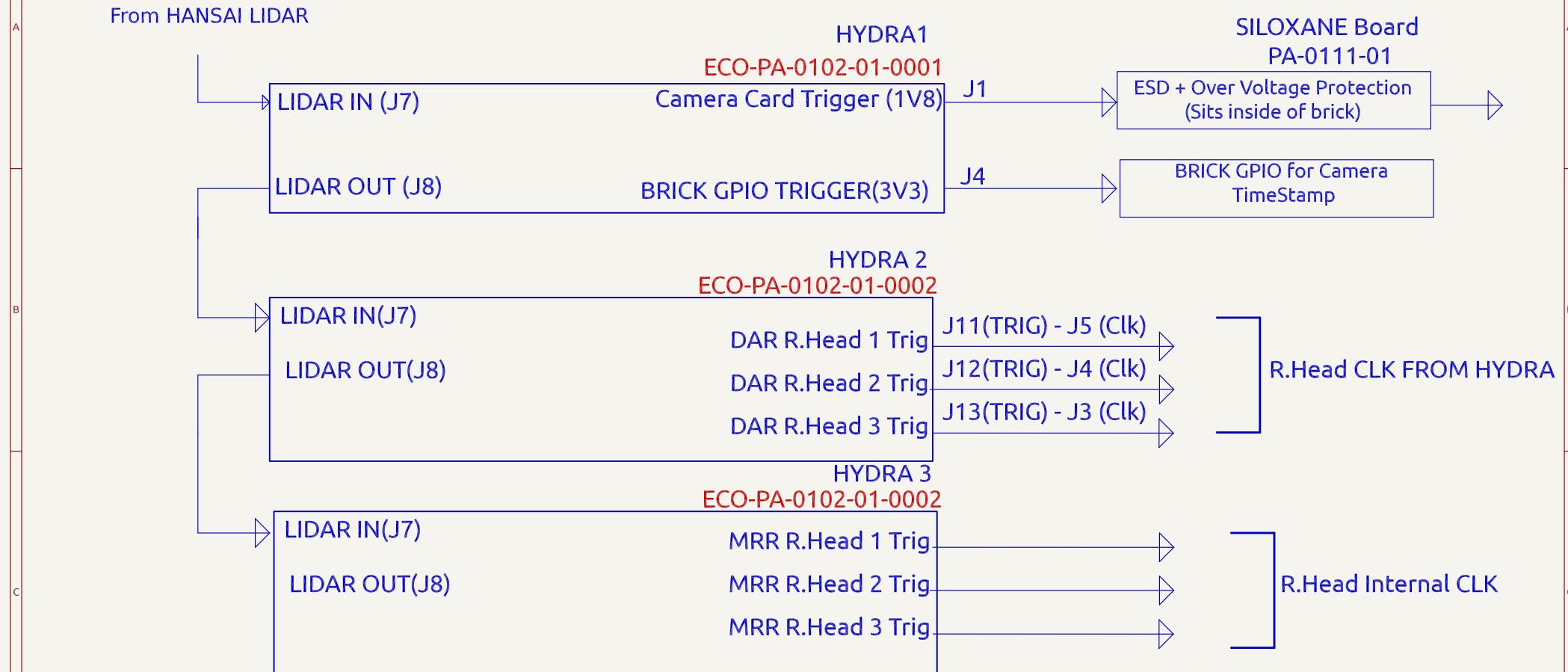


ML ZEN-CAR RECORDING SETUP V5



NOTE :

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

Navneet Singh

Sheet: /
File: HYDRA_ML_V3.kicad_sch

Title:

Size: A4 Date:

KiCad E.D.A. 8.0.6

Rev: Id: 1/3

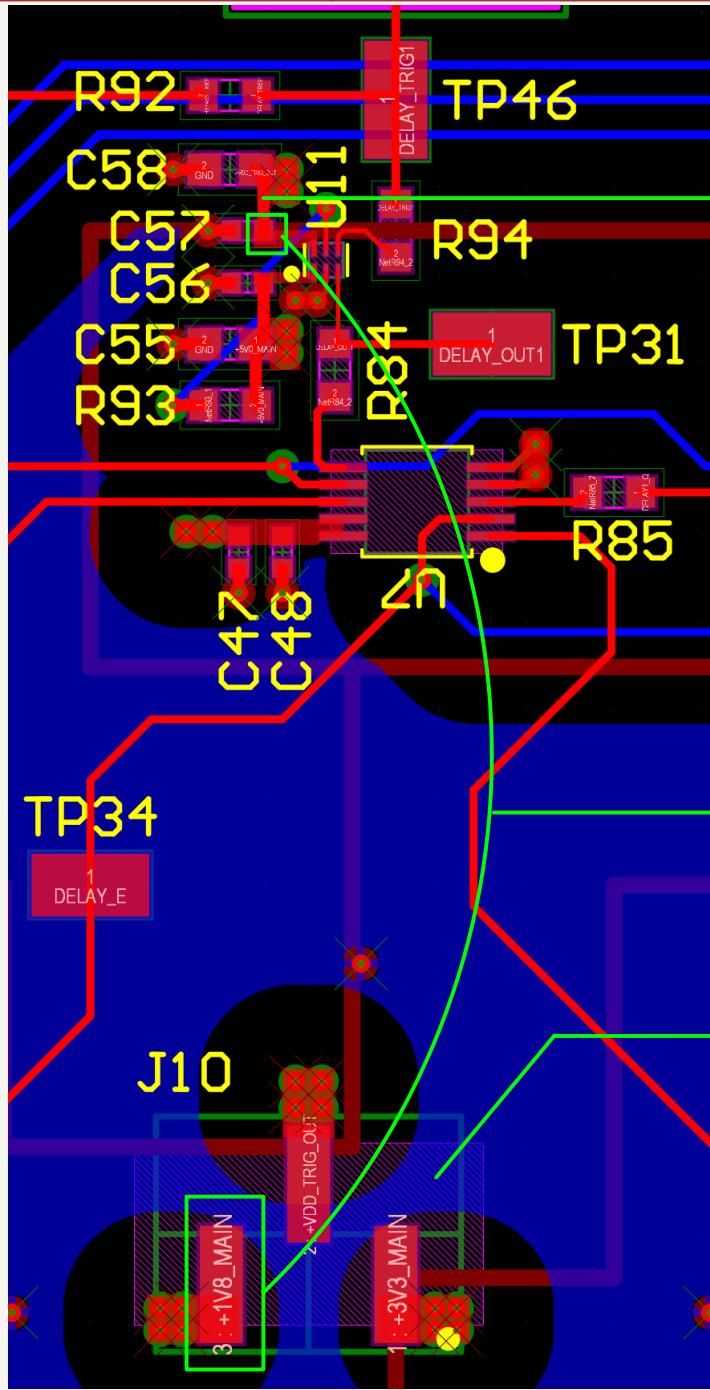
ECO-PA-0102-01-0001

ECO-PA-0102-01-0002

File: ECO-PA-0102-01-0001.kicad_sch File: ECO-PA-0102-01-0002.kicad_sch

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 USING ENAMEL COATED WIRE

STANDARD ELECTRICAL SHORT JUMPER
MUST BE BETWEEN PIN 1 & 2

Sheet: /ECO-PA-0102-01-0001/
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Rev:
Id: 2/3

ECO-PA-0102-01-0001

NOTE THIS EDIT IS REQUIRED TO CREATE 50MHz HYDRA

A

Hydra PCB Changes

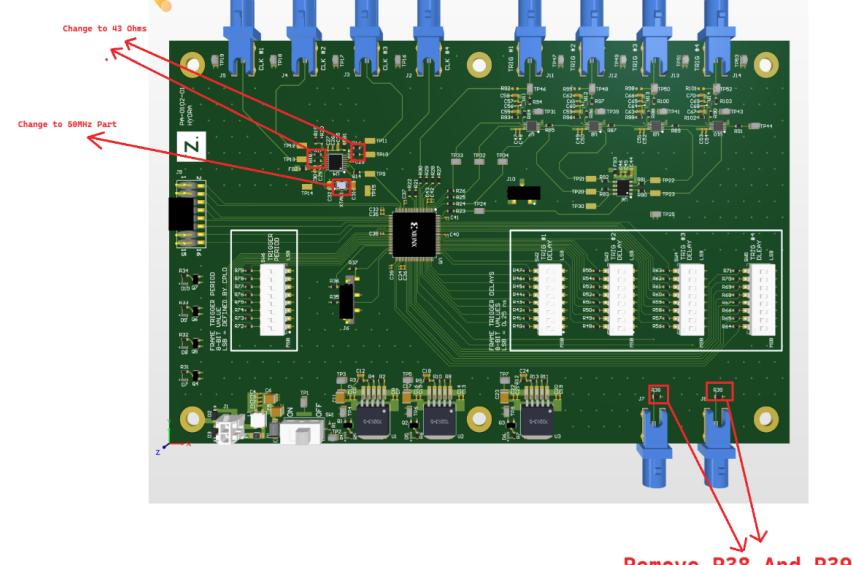
Follow the instructions to convert the PA-0102-01(Standard Hydra Asembly) to a 50MHz Hydra system.

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

B

B

C

C

D

D

Sheet: /ECO-PA-0102-01-0002/
File: ECO-PA-0102-01-0002.kicad_sch

Title:

Size: A4 Date:

KiCad E.D.A. 8.0.6

Rev:

Id: 3/3