

# AIK-Breakout

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## Accessories

STDF1

STDF2

STDF3

STDF4

STDF5

STDF6

STDF7

STDF8

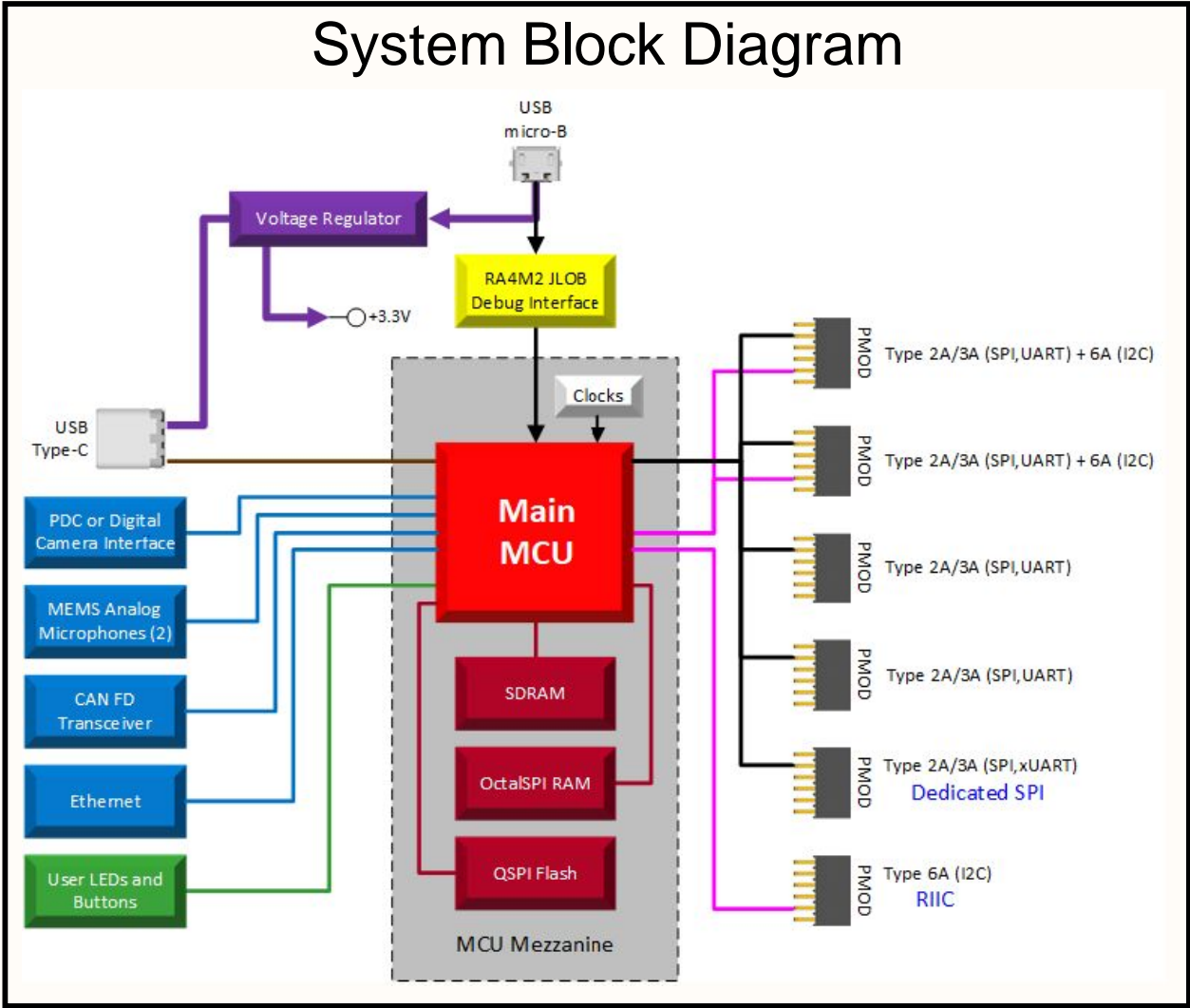
HW1

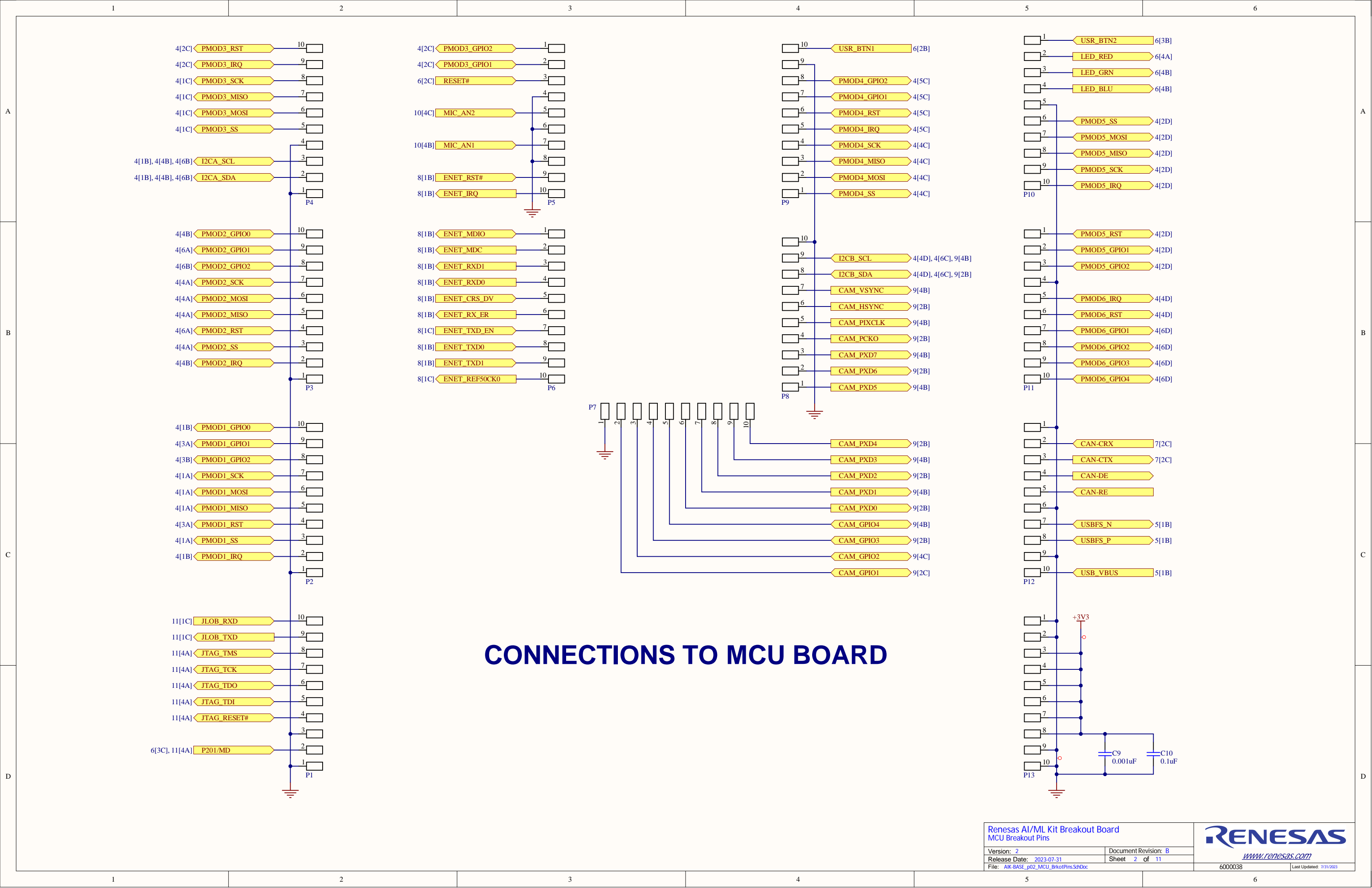
Mount from bottom Alignment Pin

HW2

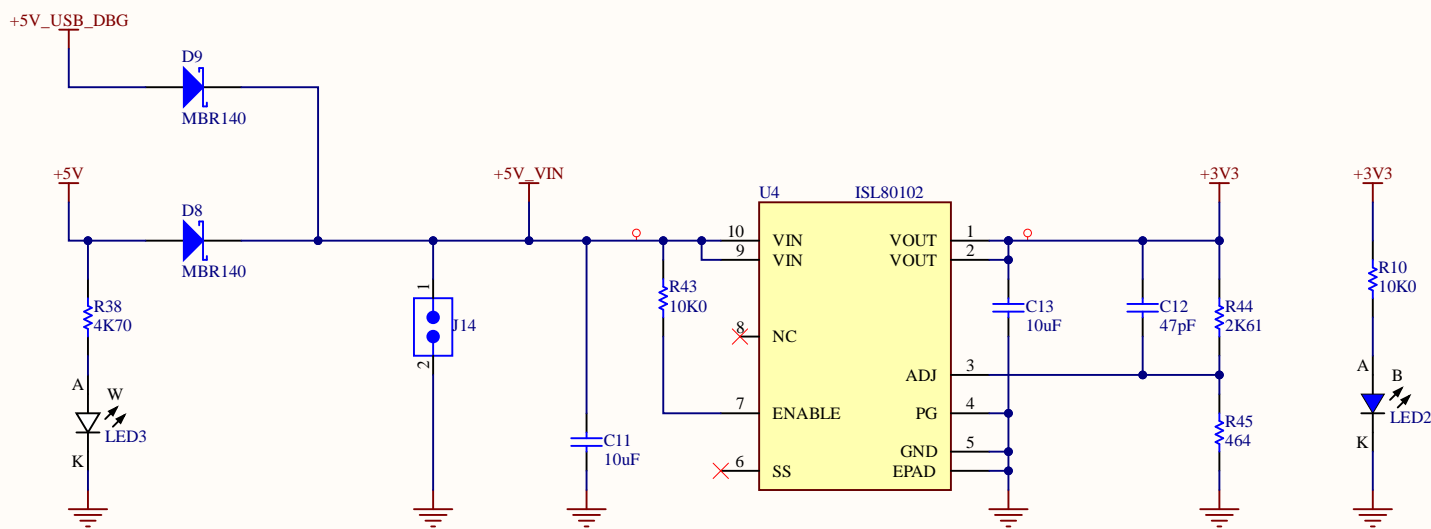
Mount from bottom Alignment Pin

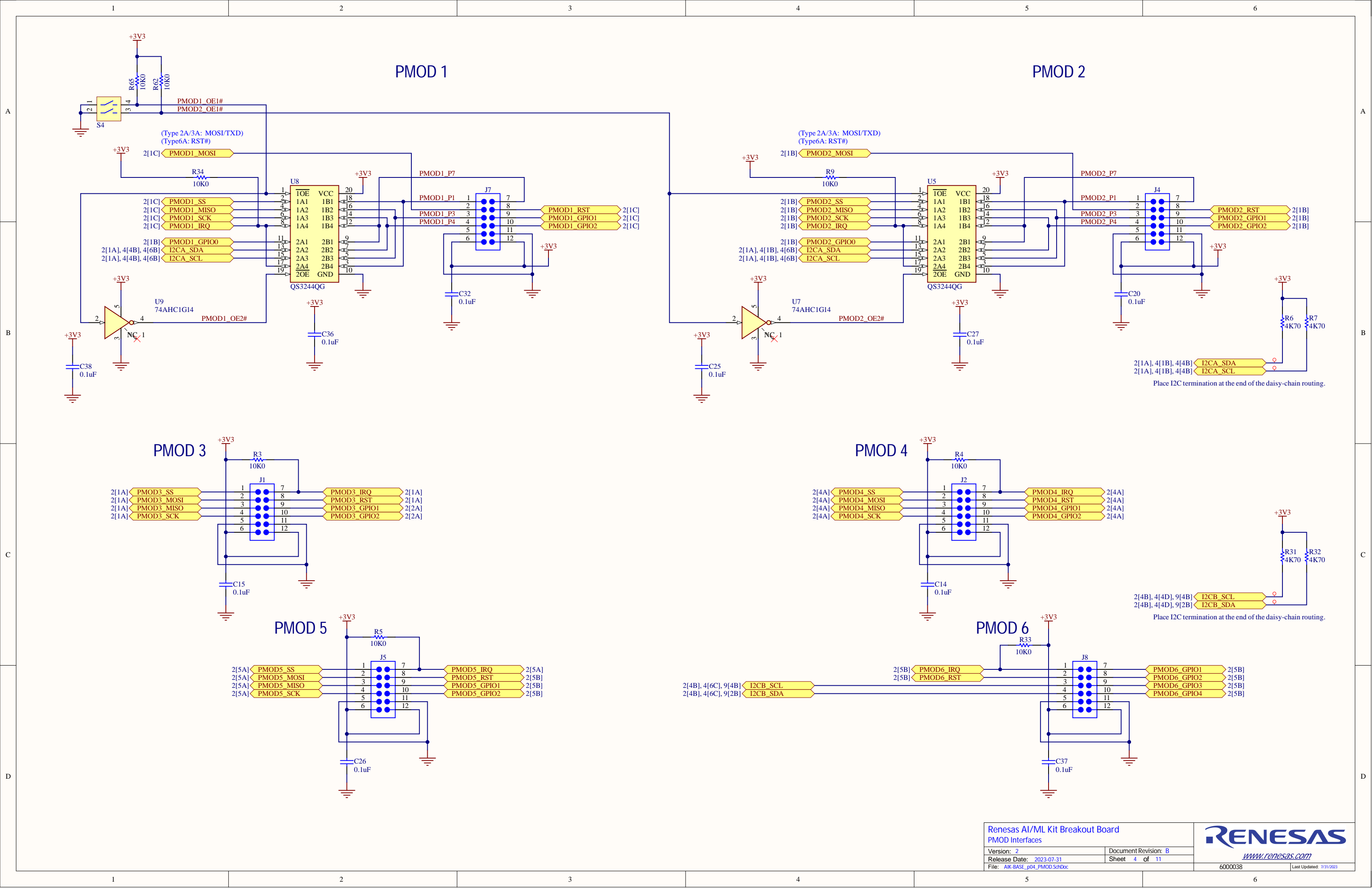
REVISION HISTORY		
Revision	Date	Description
v1	11/15/2021	Initial review version (X1)
v2	04/28/2023	Updates from initial bringup: correct USBFS polarity at J11, redesign JLOB, correct MIC1/MIC2 part number
v2 B	31 Jul 2023	Rename project to AIK-BASE and change all internal references.



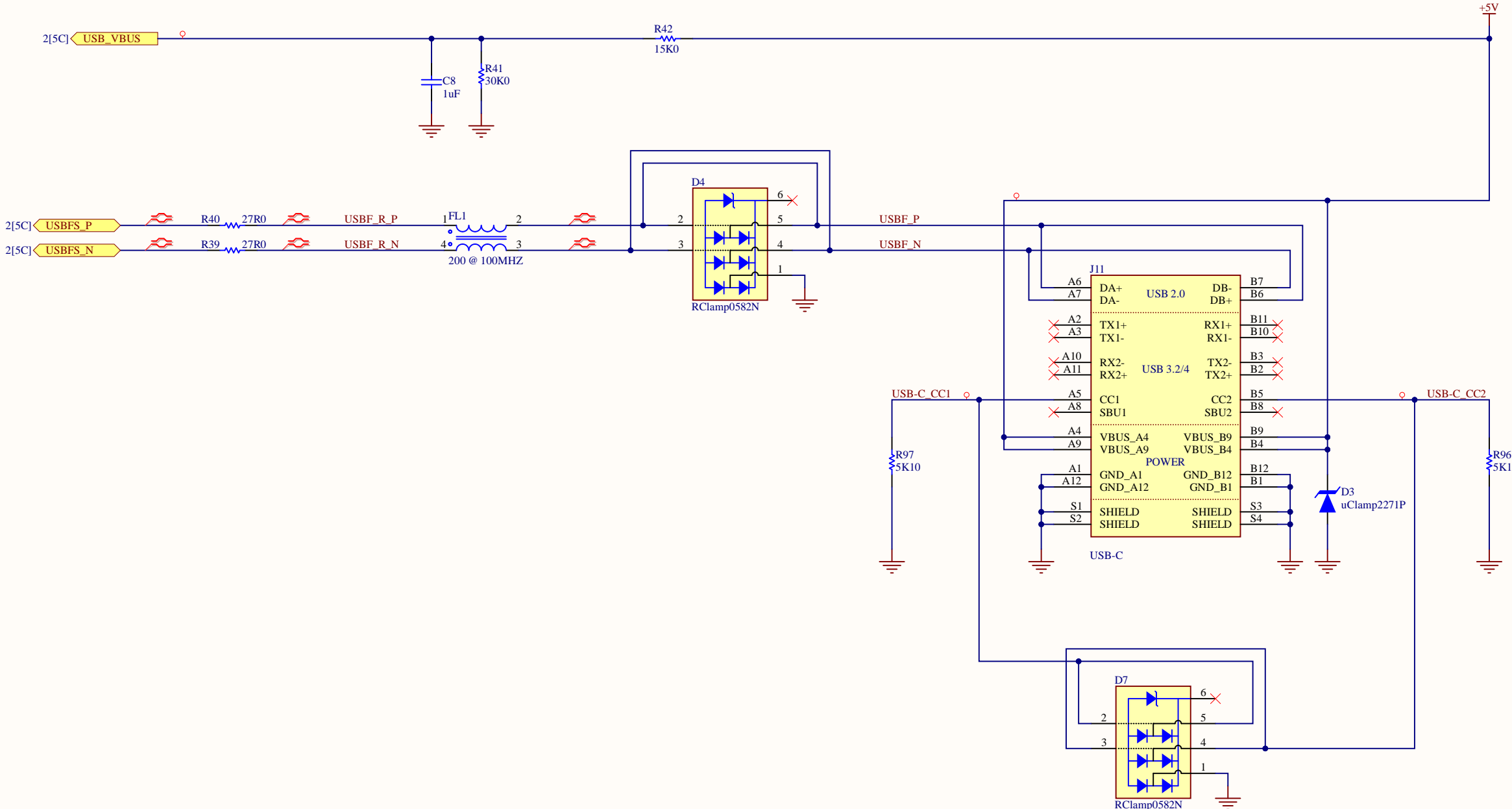


POWER REGULATION

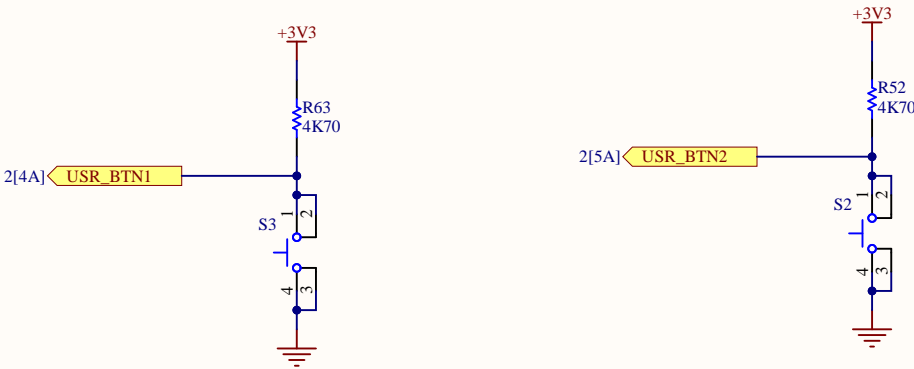




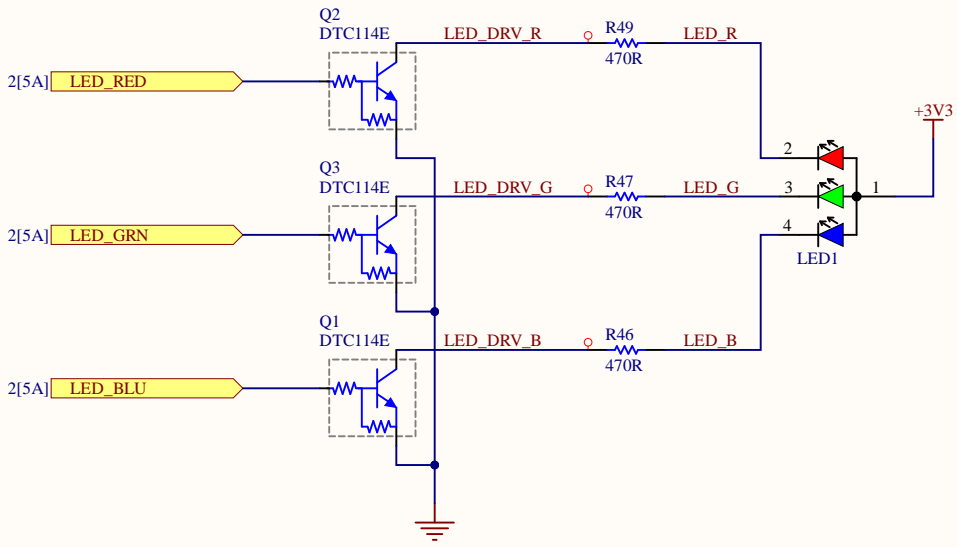
## USB FS INTERFACE - USB-C CONNECTOR



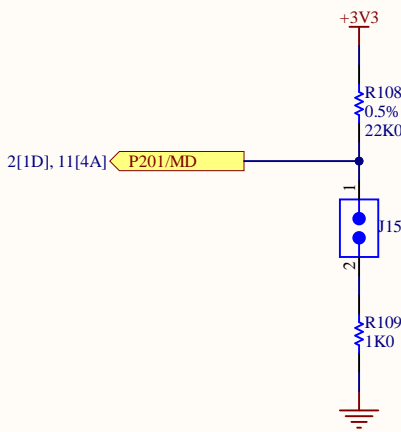
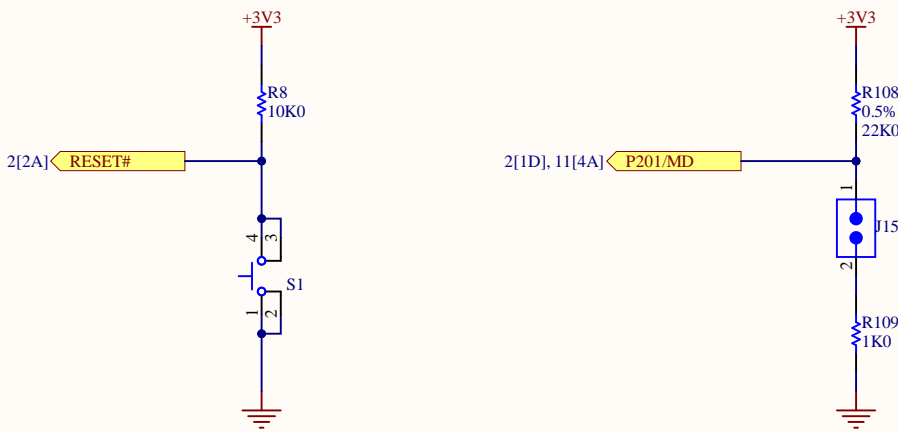
USER BUTTONS



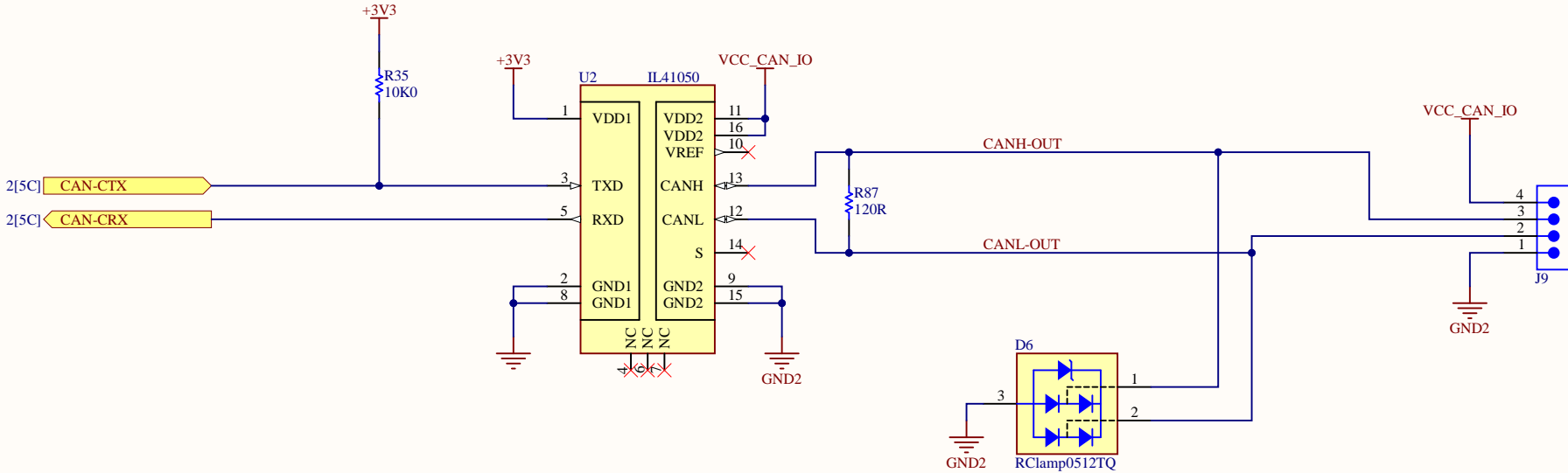
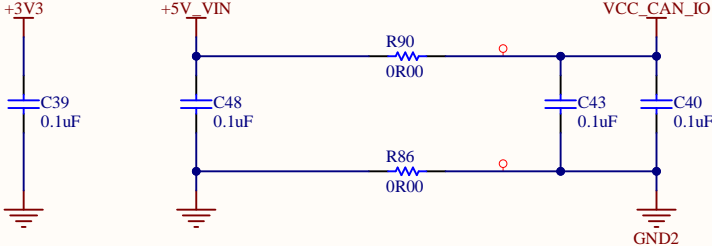
USER LED



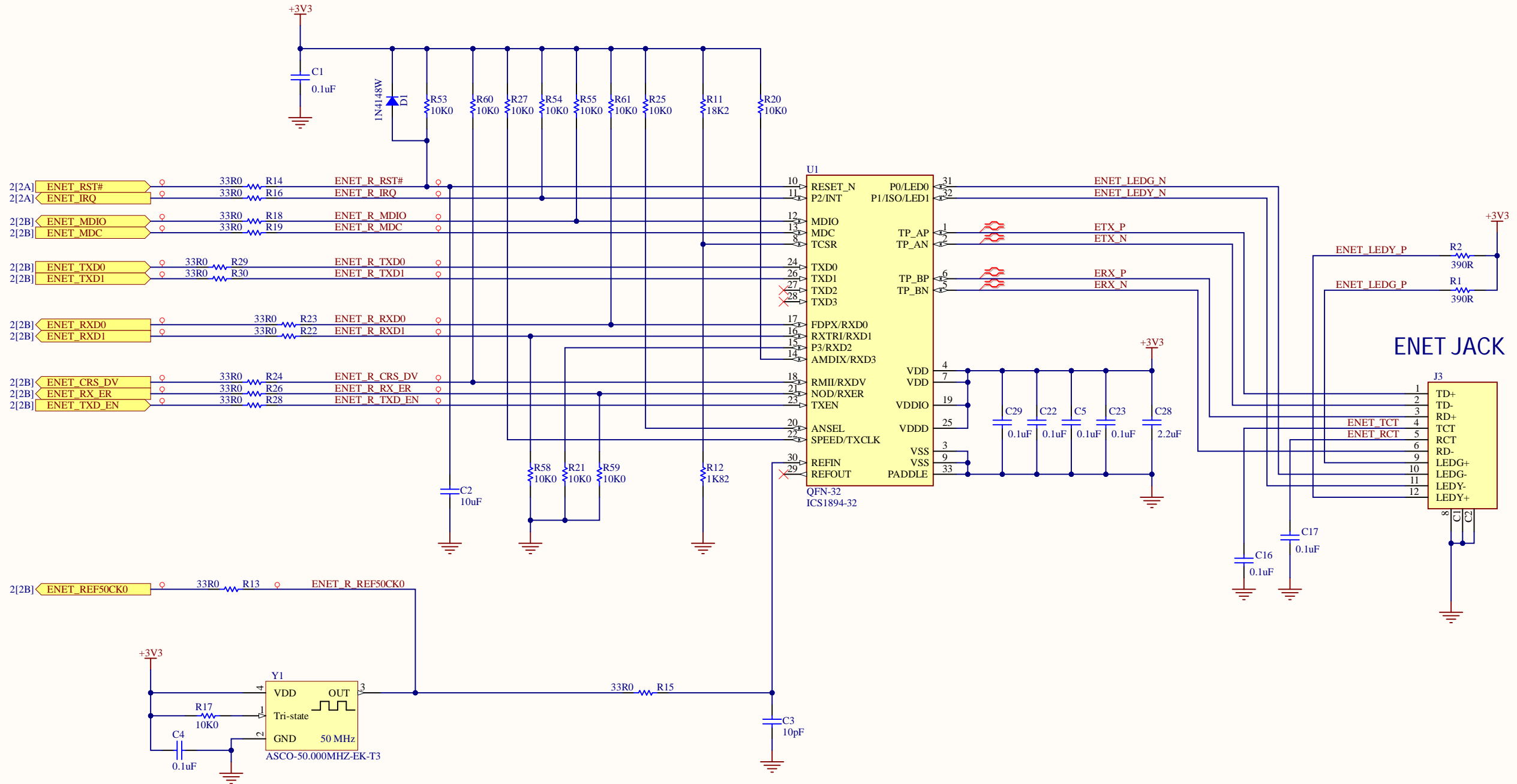
CONTROL



## CAN / CAN-FD

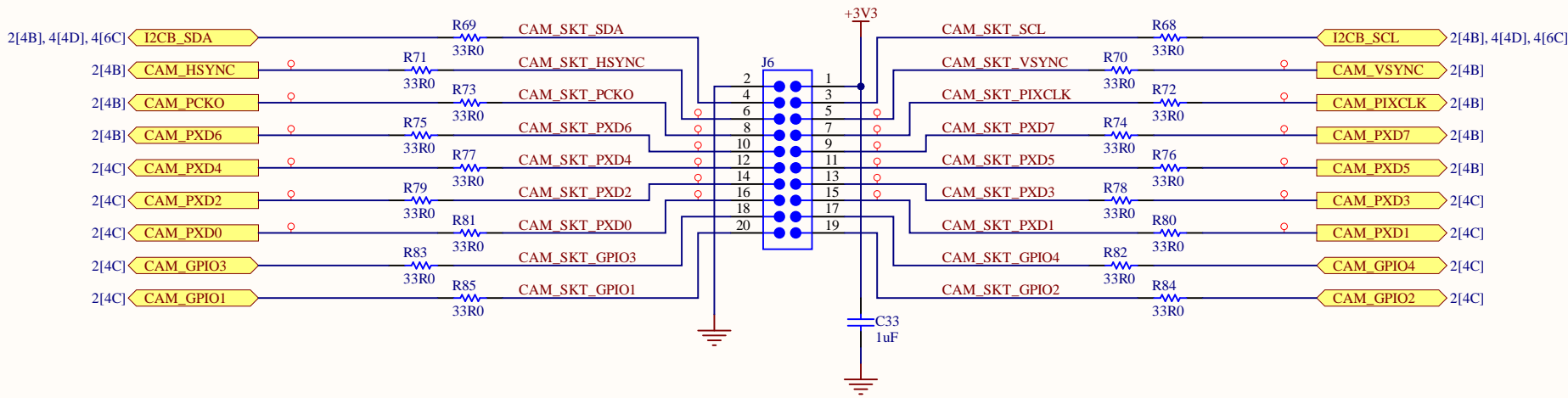


## RMII ETHERNET PHY

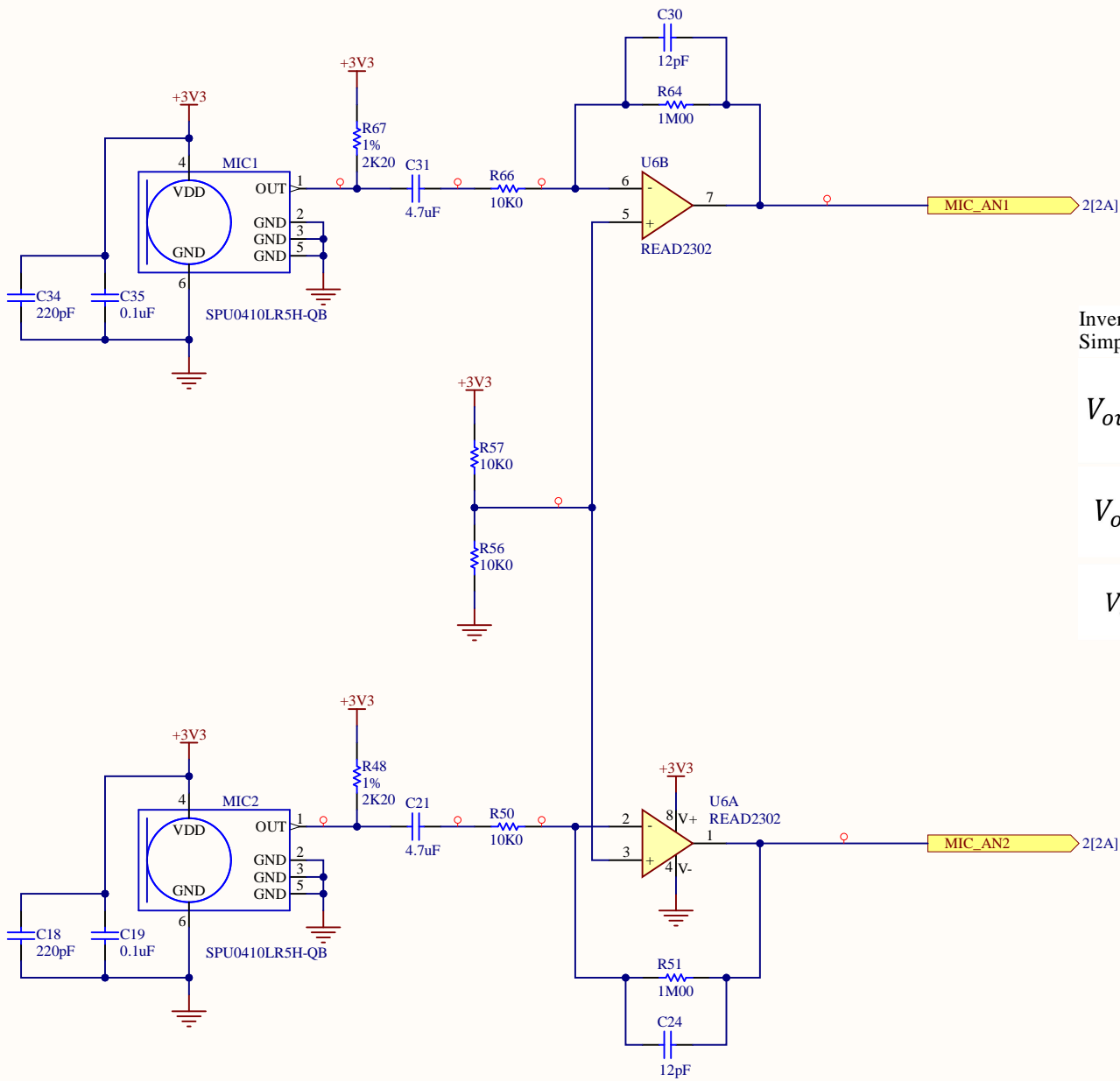




CAMERA MODULE SOCKET



ANALOG MEMS MICROPHONES



Inverting Amplifier  
Simplified Transfer Fuction:

$$V_{out} = -V_{in} \times \frac{R_{feedback}}{R_{input}}$$
$$V_{out} = -V_{in} \times \frac{1M\Omega}{10K\Omega}$$
$$V_{out} = -V_{in} \times 1000$$

