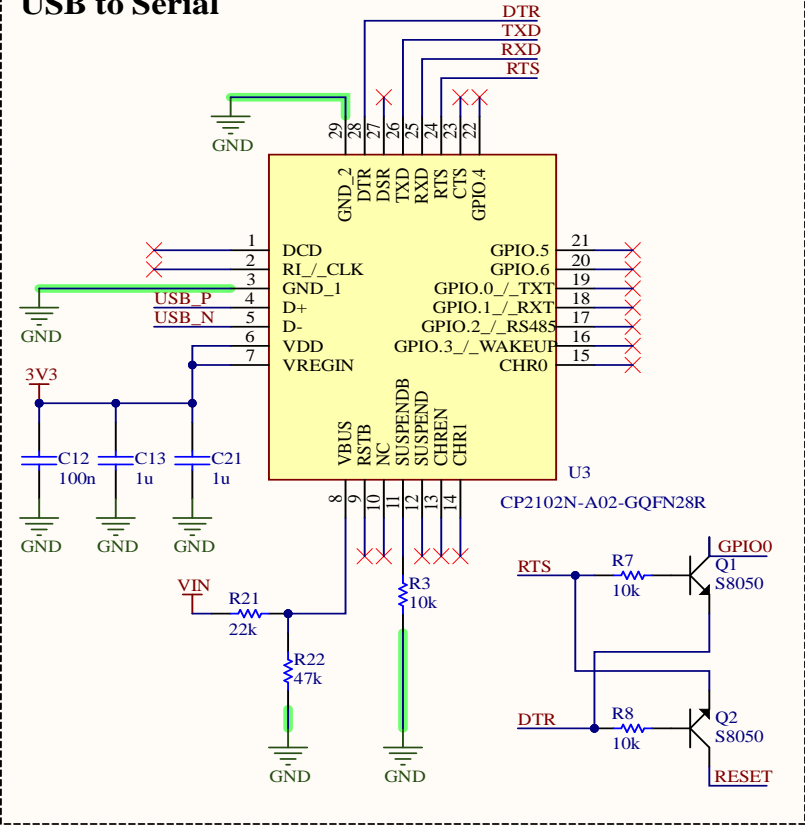
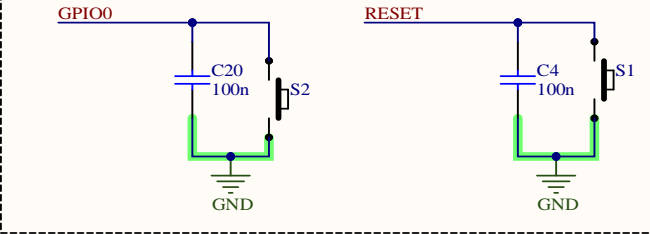


ESP32 MCU

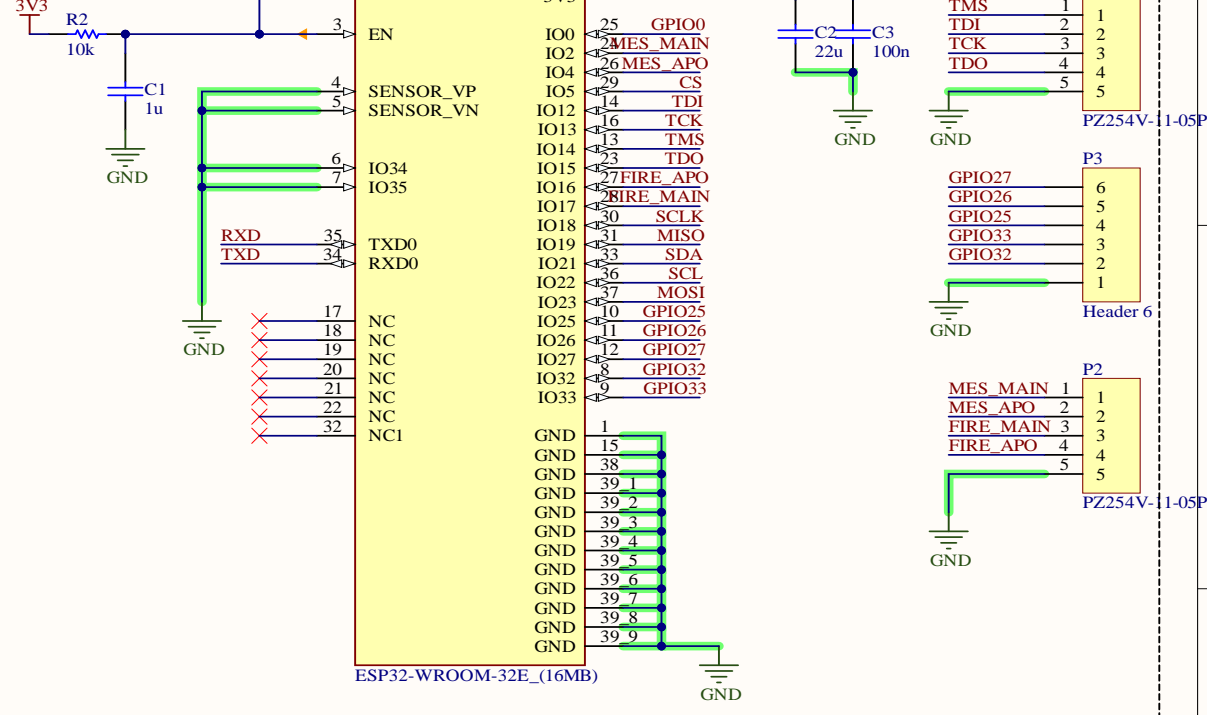
USB to Serial



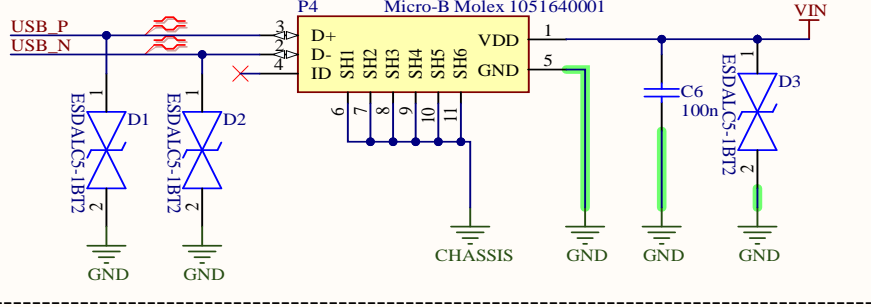
Bootloader & Reset



ESP32



Micro-USB



Title: ADA 2 Flight Computer MPU	
Page Contents:ESP32 MCU.SchDoc	
Drawn By: Agustín Galdemán	Checked By: Ian Cruz Diaz
Size: A4	Revision: A.00
Date: 04/06/2023	Sheet 1 of 3

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Pyro Channels

The diagram illustrates two circuit configurations for Pyro Channels, labeled APO (Asynchronous) and MAIN (Main).

Left Circuit (APO):

- The gate of MOSFET Q3A is connected to MES_APO and FET_APO.
- The gate is biased by a network of resistors: R4 (10k) and R5 (10k) are connected to a common point, which is then connected to the gate.
- The source of Q3A is connected to GND through resistor R14 (10k).
- The drain of Q3A is connected to GND through resistor R10 (470).

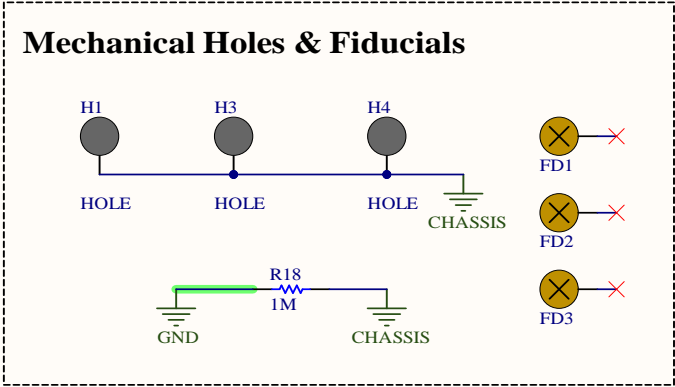
Right Circuit (MAIN):

- The gate of MOSFET Q3B is connected to MES_MAIN and FET_MAIN.
- The gate is biased by a network of resistors: R6 (10k) and R9 (10k) are connected to a common point, which is then connected to the gate.
- The source of Q3B is connected to GND through resistor R15 (10k).
- The drain of Q3B is connected to GND through resistor R13 (470).

Power

The diagram shows the power supply section of the LP5912-3.3DRVT. The input voltage V_{IN} is connected to pin 6 (IN) through capacitor C14 (100nF). Pin 4 (EN) is connected to V_{IN} through capacitor C15 (1uF). Pin 2 (NC) is marked with a red X. The output of the regulator is connected to pin 1 (OUT) and then to the 3V3 output through capacitor C16 (10uF). Pin 3 (PG) is marked with a red X. Pin 7 (EXP) is connected to pin 5 (GND) through a green wire. The chip is labeled LP5912-3.3DRVT.

Title: ADA 2 Flight Computer MPU		
Page Contents:ESP32 perifericos.SchDoc		
Drawn By: Agustín Galdames		Checked By: Ian Cruz Diaz
Size: A4		Revision: A.00
Date: 04/06/2023		Sheet 2 of 3



Title: **ADA 2 Flight Computer MPU**

Page Contents:Mounting.SchDoc

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Size: A4Revision: A.00

Date:04/06/2023Sheet 3 of 3