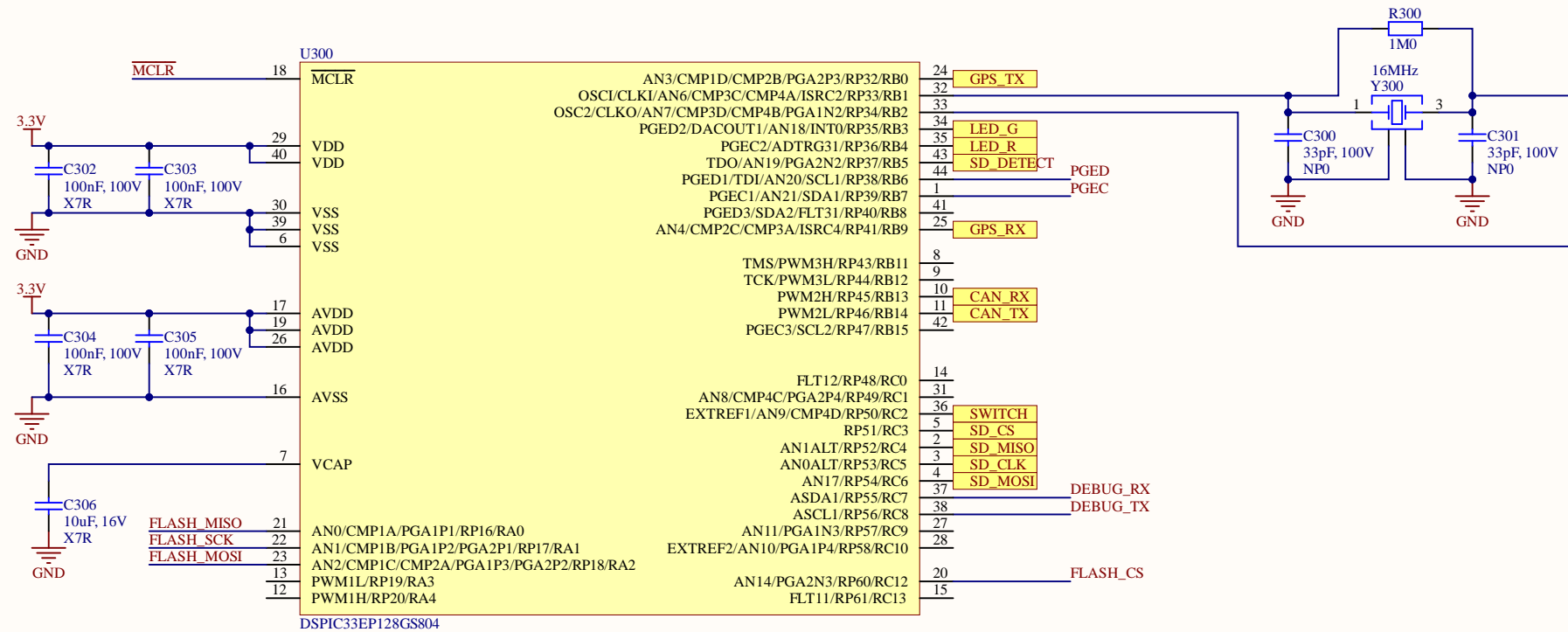
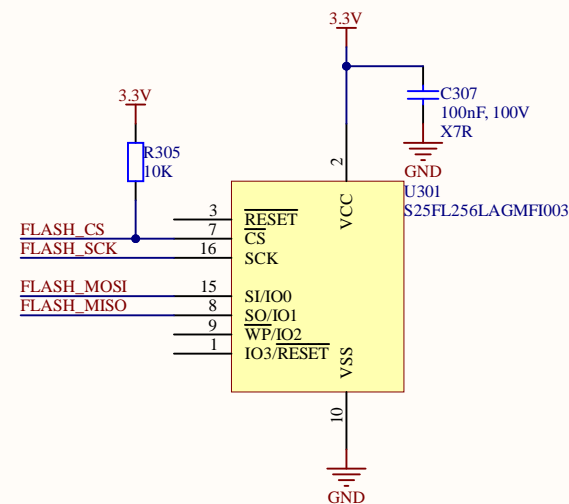


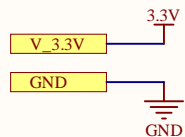
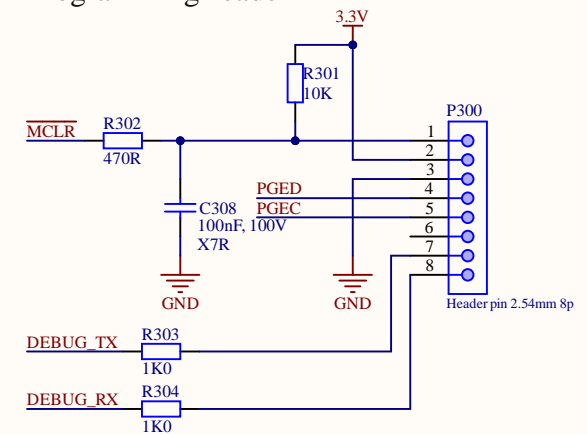
Microcontroller



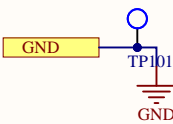
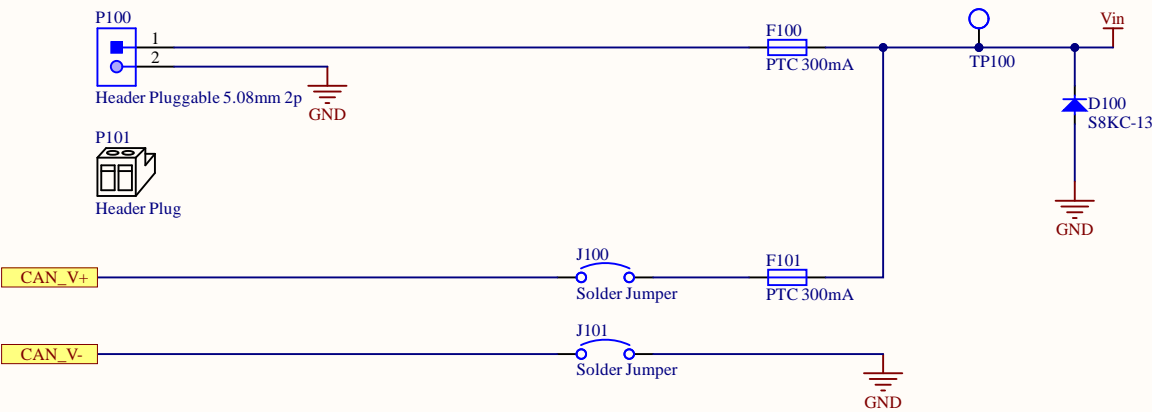
Flash memory



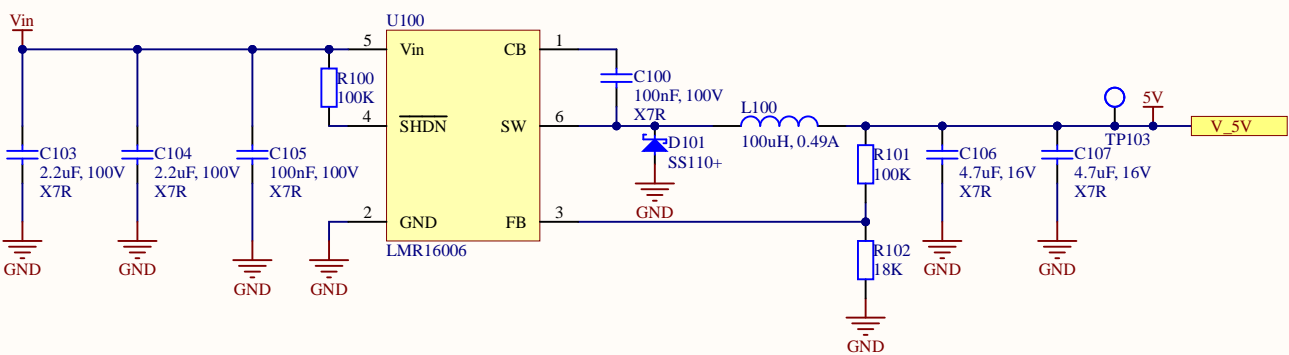
Programming header



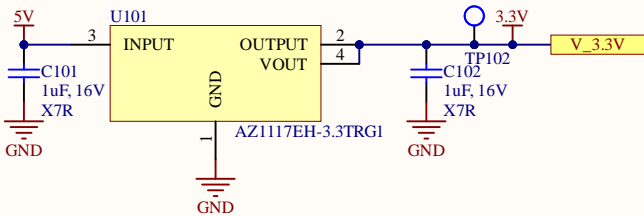
Power supply connector



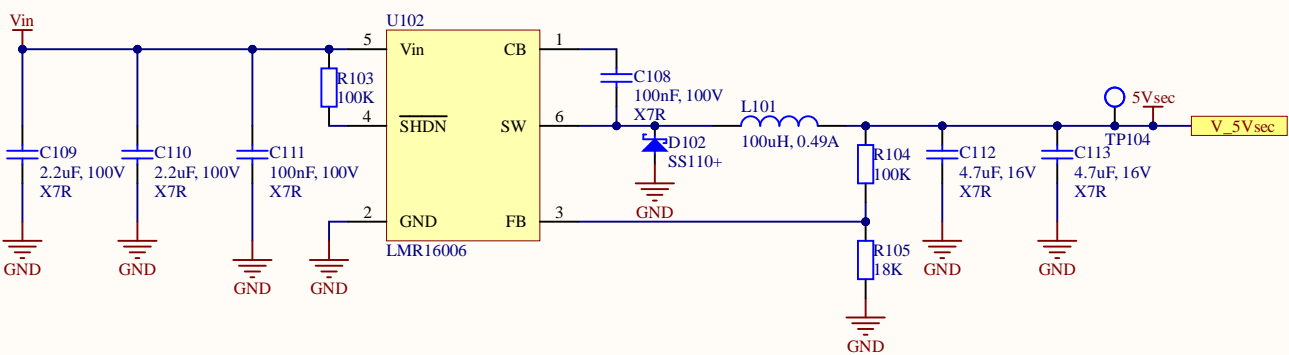
Power supply Vin to 5V

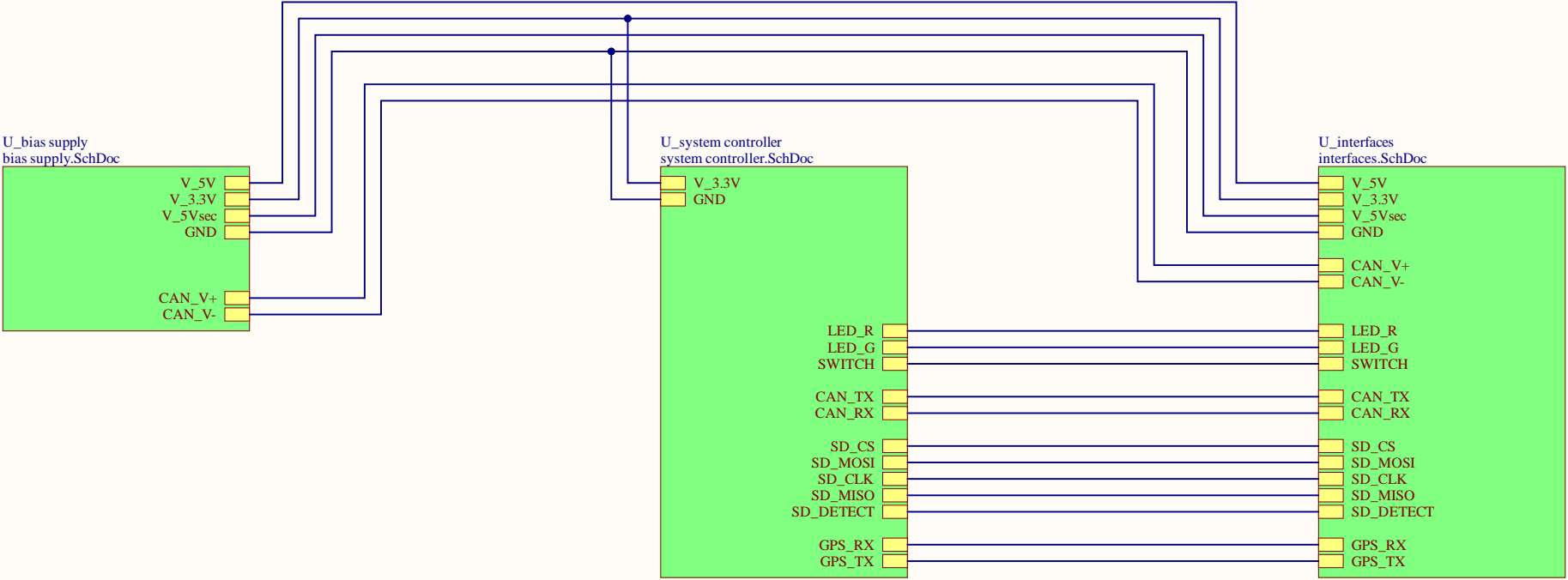


Power supply 5V to 3.3V



Secondary power supply Vin to 5V for gps



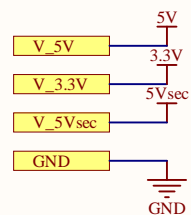


The diagram illustrates the wiring for two Header Modular 8P8C Shielded connectors, J200 and J201, connected to a common CAN_SHIELD. The connections are as follows:

- J200:**
 - Pin 1: Shell (CAN_SHIELD)
 - Pin 2: CAN -
 - Pin 3: CAN -
 - Pin 4: CAN -
 - Pin 5: CAN +
 - Pin 6: CAN +
 - Pin 7: CAN H
 - Pin 8: CAN L
- J201:**
 - Pin 1: Shell (CAN_SHIELD)
 - Pin 2: CAN -
 - Pin 3: CAN -
 - Pin 4: CAN -
 - Pin 5: CAN +
 - Pin 6: CAN +
 - Pin 7: CAN H
 - Pin 8: CAN L

The schematic diagram illustrates the CAN bus interface circuit for the MCP2562 module. It includes the following components and connections:

- Input Stage:** The CAN_H and CAN_L signals are connected to a differential input stage consisting of two diodes (D200, PESD1CAN) and a 5000Ohm resistor (L200).
- Filtering and Biasing:** The input stage is followed by a network of capacitors (C202, C203, C204) and resistors (R200, R203) to filter noise and provide proper biasing.
- MCP2562 Module:** The MCP2562 module is connected to the input stage. Its VDD is connected to 5V, and VSS is connected to GND. The module also has a 3.3V supply and a 100nF capacitor (C201).
- Output Stage:** The module's output pins (CANH, CANL) are connected to the CAN_TX and CAN_RX pins of the module. The output stage includes resistors (R201, R202) and capacitors (C200, C201) for signal conditioning.
- Shielding:** The CAN_SHIELD pin is connected to GND via a solder jumper (J202).



GPS antenna
connector

U203

J201

J200

P100

- +

U200

U301

SUNFLARE
SOLAR TRACKER ARM

U101

5Vs

GND

U102

3V3

5V

U100

U300

P200

004-S-
004-H-01
V2.00 4/1/2021

P300

8

1

Vin