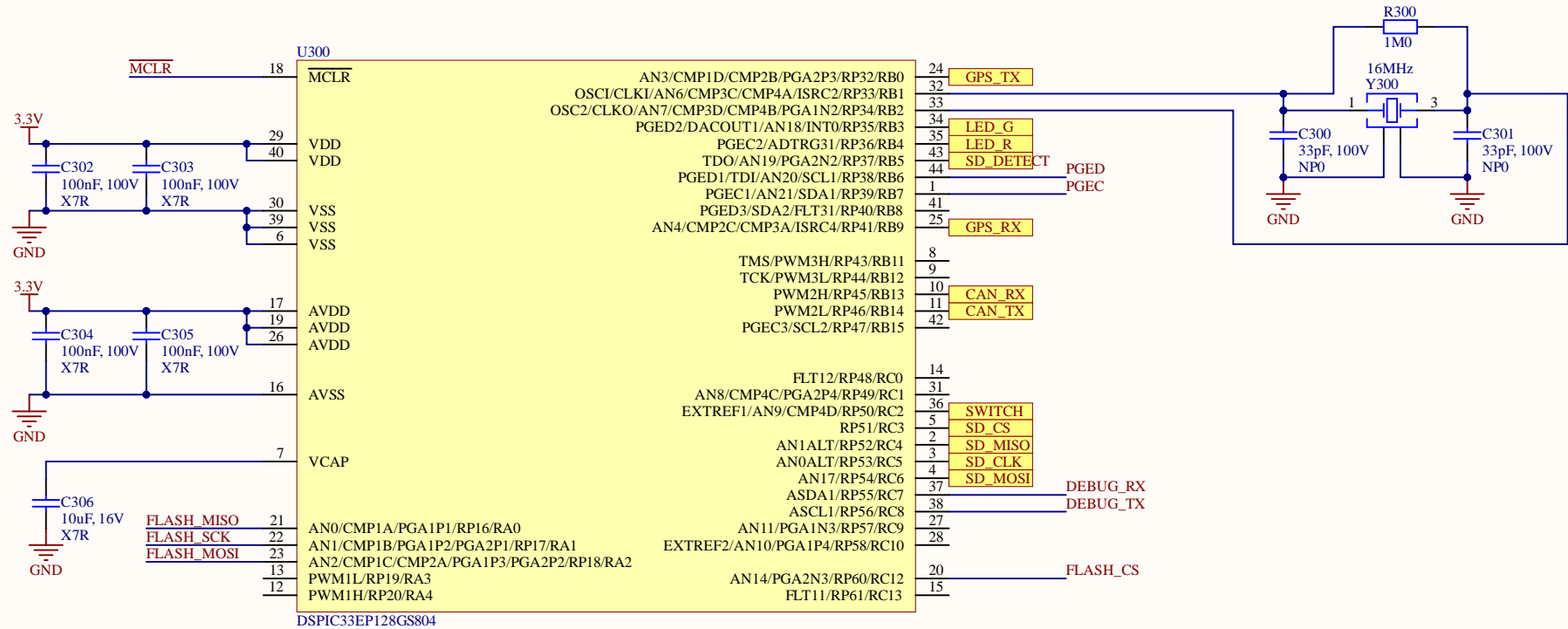
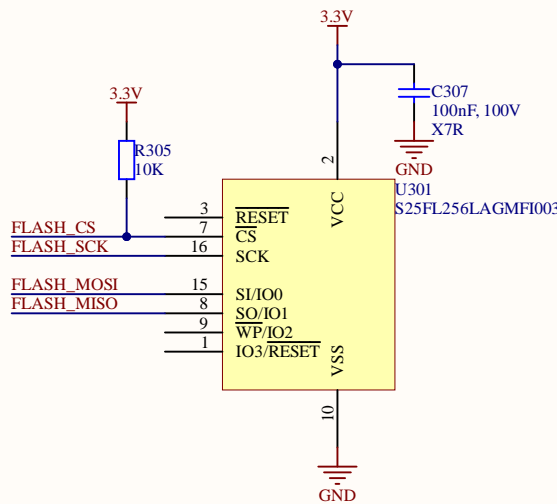


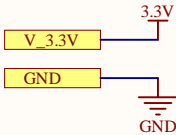
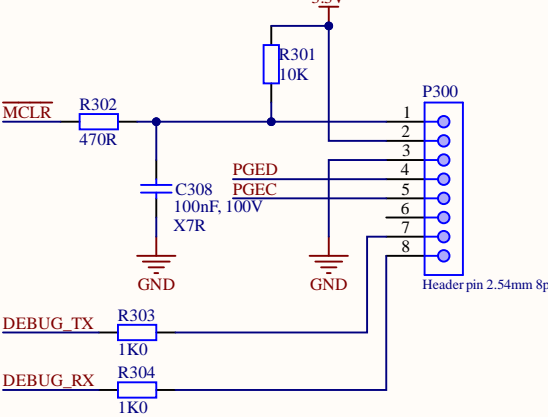
Microcontroller



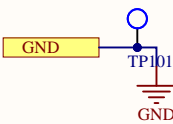
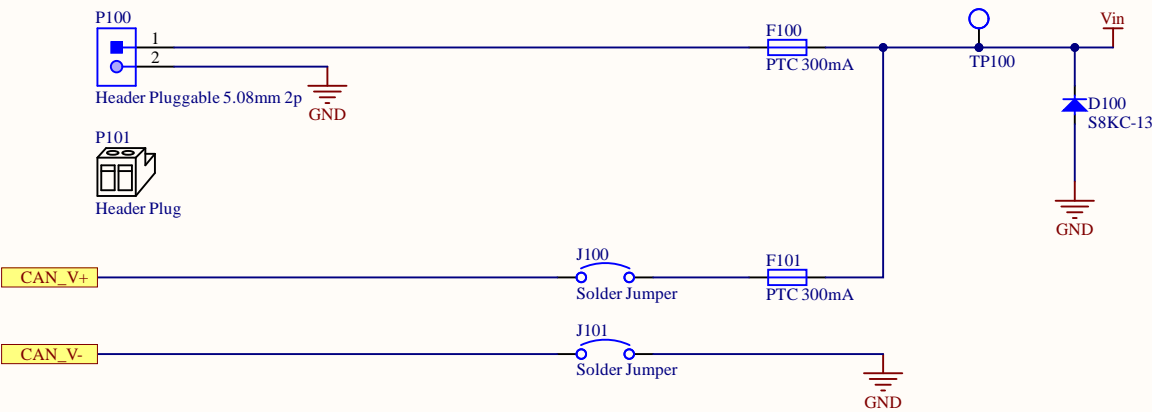
Flash memory



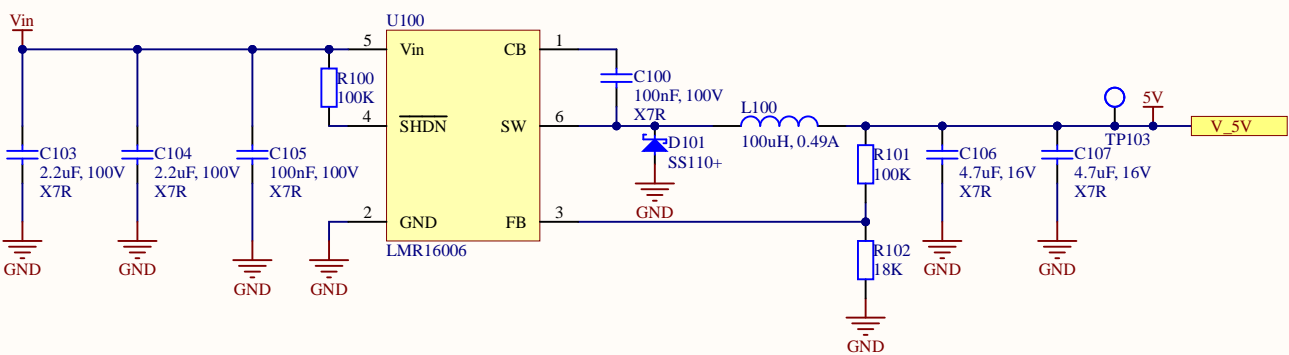
Programming header



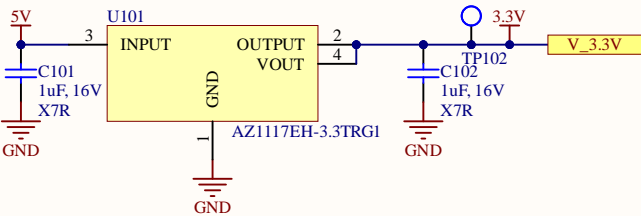
Power supply connector



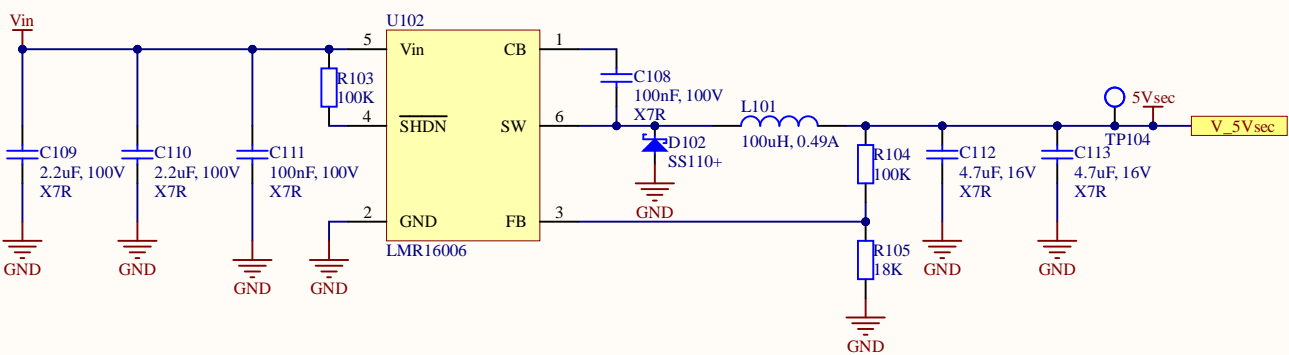
Power supply Vin to 5V

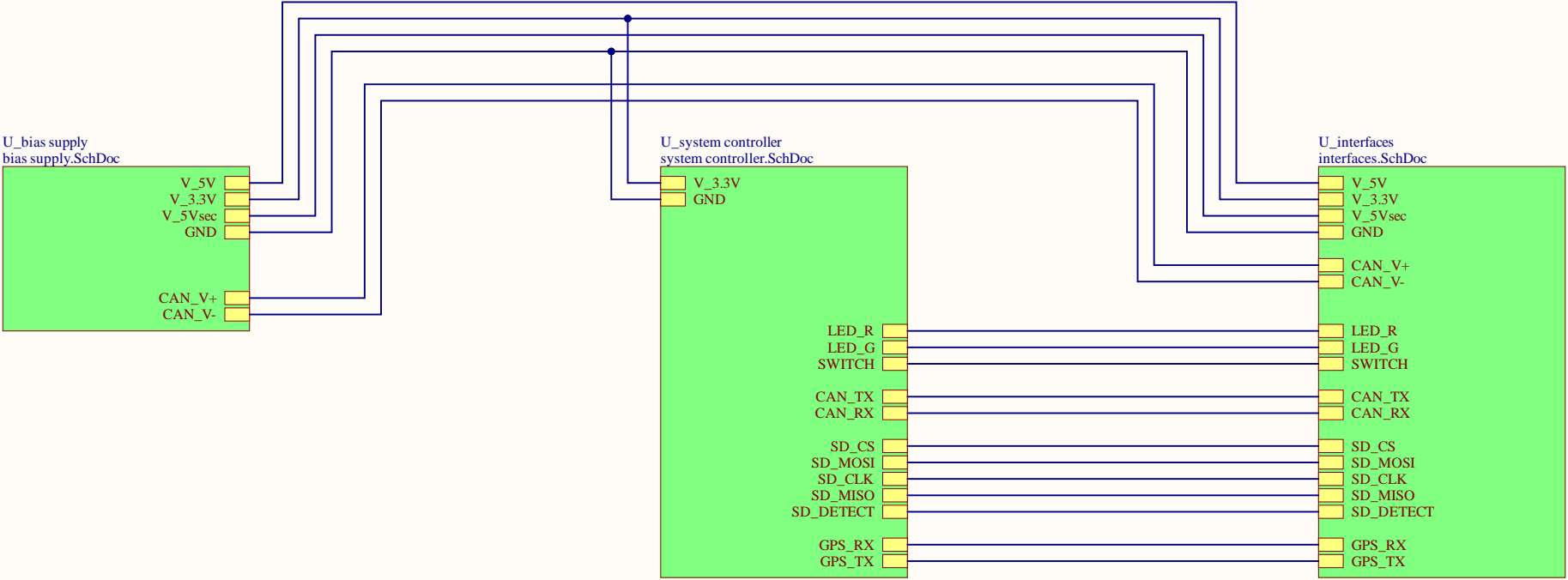


Power supply 5V to 3.3V



Secondary power supply Vin to 5V for gps





J200

Shell CAN\_SHIELD

1

2

3 CAN -

4

5

6 CAN +

7 CAN\_H

8 CAN\_L

Header Modular 8P8C Shielded

J201

Shell CAN\_SHIELD

1

2

3 CAN -

4

5

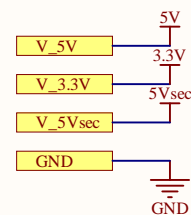
6 CAN +

7 CAN\_H

8 CAN\_L

Header Modular 8P8C Shielded

The diagram shows the power and data connections for the GPS module. A 5V<sub>sec</sub> supply is connected to the VCC pin (pin 1) of the GY-GPS6MV2 module. Two capacitors, C208 (10μF, 16V, X7R) and C209 (100nF, 100V, X7R), are connected in parallel between the 5V supply and ground. The RX pin (pin 2) is connected to the GPS\_RX signal through a 1KΩ resistor (R212). The TX pin (pin 3) is connected to the GPS\_TX signal through a 1KΩ resistor (R214). The GND pin (pin 4) is connected to ground.



GPS antenna  
connector

U203

J201

J200

P100

- +

U200

U301

SUNFLARE  
SOLAR TRACKER ARM

U101

5Vs

GND

U102

3V3

5V

U100

U300

P200

P300

8

1

006-S-  
006-H-01