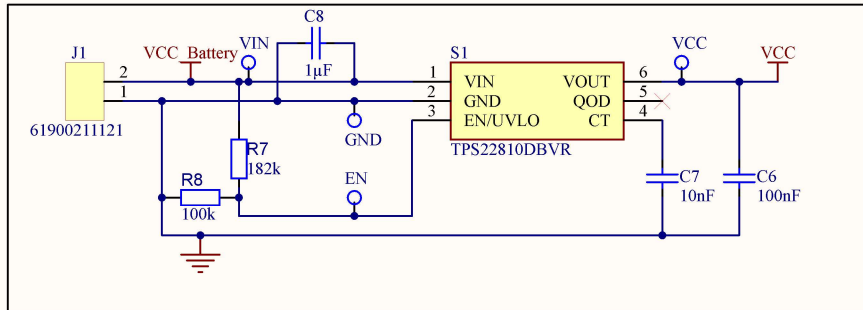


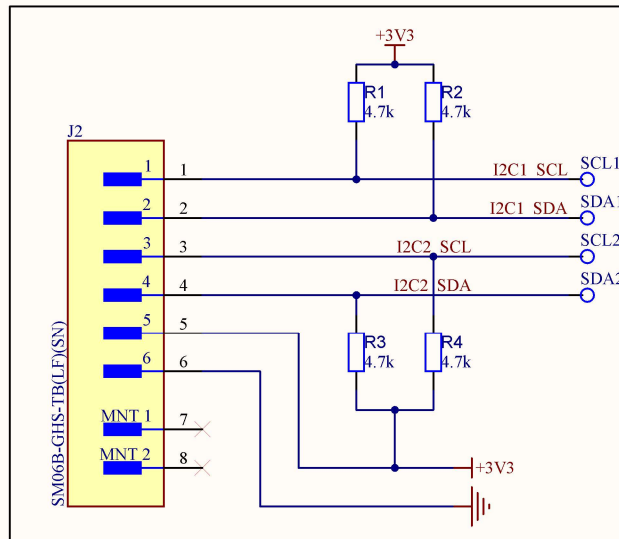
# Mach Probe Data Logger Motherboard

## Load Switch ( $EN = 3V \cdot (R8/R7 + R8) [V]$ )

EN threshold (2.54V) set via voltage divider to disable load switch when battery drops below ~3.0V.  
Powers Nucleo via 5V pin.

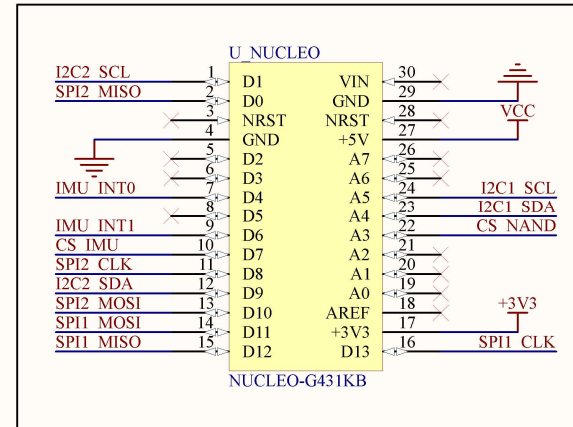


## Sensor Connector



## NUCLEO-G431KB

I2C1 - 1st Pressure Sensor; 2nd I2C2 - Pressure Sensor; SPI1 - SD NAND Flash Memory;  
SPI2 - IMU



A4 should be connected PB7

Not found  
Closed solder bridge such that A5 to PA15

Not found  
Closed solder bridge such that D13 to PB3

WARR e.V.  
Boltzmannstr. 15  
85748 Garching  
Germany

Mach\_Probe\_Main\_Board.PrjPcb  
Mach Probe Data Logger



Designers: Bexultan Tokkozha

Revision: Rev.3

Reviewers:

Review Date: 05.04.2025

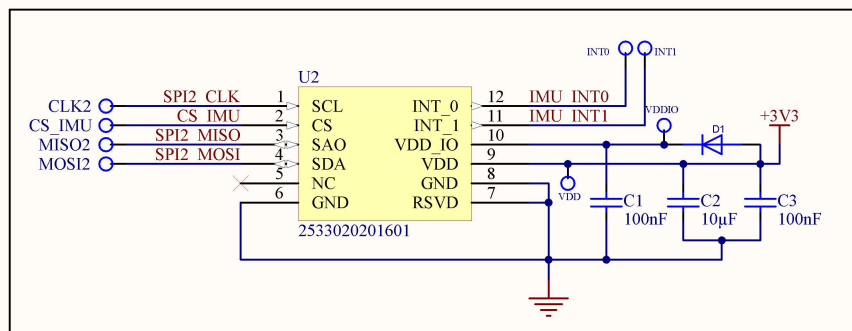
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Time: 14:42:14

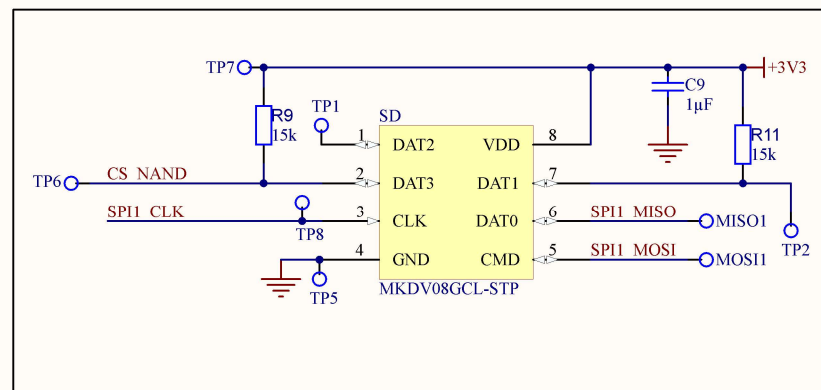
Sheet 1 of 2

# Mach Probe Data Logger Motherboard (TEMP, IMU and NAND Flash)

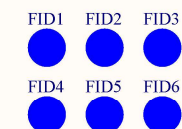
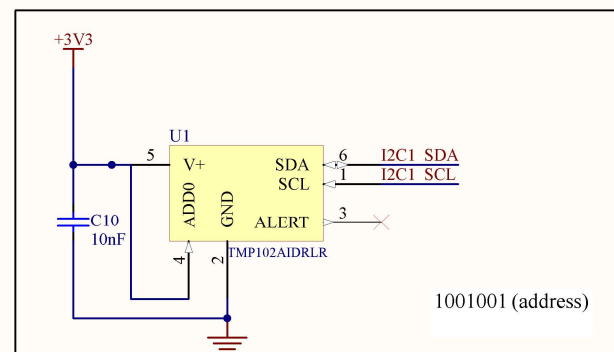
## IMU 3-axis linear accelerometer and gyroscope



## SD NAND Flash Memory



## Temperature sensor



Logo1

ST Microelectronics Logo 6x4mm

ST Microelectronics Logo  
Logo2

TUM Logo; 6x4mm

TUM Logo

Logo3

WARR Rocketry Logo

WARR Rocketry Logo

WARR e.V.  
Boltzmannstr. 15  
85748 Garching  
Germany

Mach\_Probe\_Main\_Board.PrjPcb  
Mach Probe Data Logger



Designers: Bexultan Tokkozha

Revision: Rev.3

Reviewers: \*

Review Date: 05.04.2025

Date: 29/06/2025

Time: 14:42:14

Sheet 2 of 2