



**+VBAT net comes from solder pad on PCB**

Reverse polarity FET

AO3407A

2 M3

3

TPS62 VIN

12

11

10

13

PVIN

PVIN

AVIN

EN

9

TPS62 SS/TR

17

16

15

SS/TR

EPAD

PGND

PGND

TPS62142RGTR

EN pulled down internally 400k

Vout = 3.3V, I(max) = 2A

1

2

3

14

4

5

6

7

8

SW

SW

SW

VOS

PG

FB

AGND

FSW

DEF

TPS62 SW

2.2u

I(max) = 1.9A

L2

Fc = 20KHz

BUCK OUT

R29 100k

C14 22u

GND

GND

GND

GND

LED4  
RED\_LED

PWR\_LED\_K

R31  
1k

GND

SW3

1 BUCK OUT

2

3 PWR DWN

500ASSP1M6QE

R30  
100k

GND

$I(\text{max,sw}) = 3\text{A}$

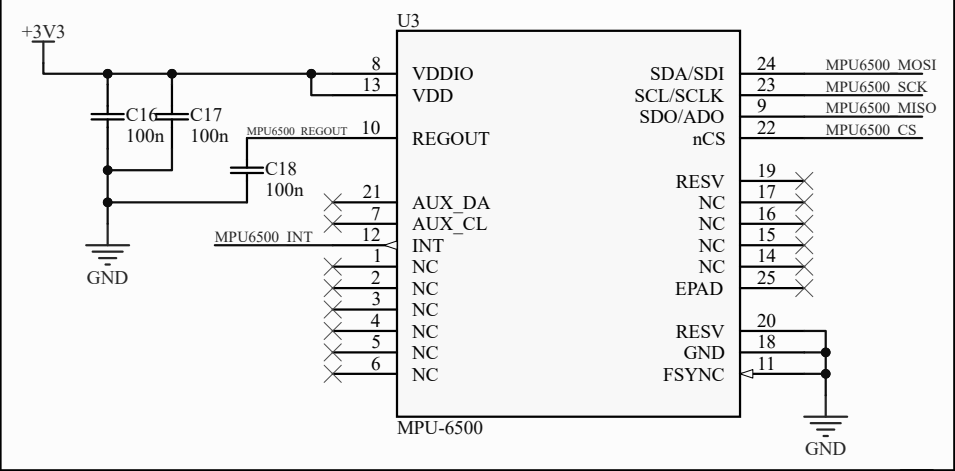
1 Pos -> 3V3 rail powered from buck

2 Pos -> 3V3 rail tied to GND

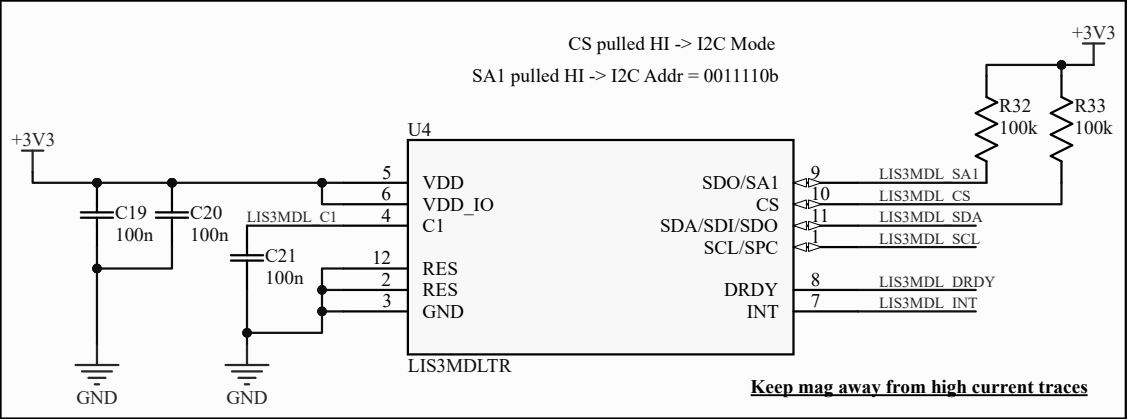
The diagram illustrates four test points, labeled ST1, ST2, ST3, and ST4, arranged horizontally. Each test point is represented by a circular pad with a central circle. To the right of each pad is the label 'PTH-M2D5X5'. A vertical line connects each pad to a ground symbol, which is labeled 'GND'. A small arrow points to the vertical line between each pad and the ground symbol.

Title Range Recon Mk. 1 - POWER			
Size A	Number		Revision
Date:	6/04/2024	Sheet of	
File:	C:\Users\...\POWER.SchDoc	Drawn By:	J. T. Lautoa-Capelle

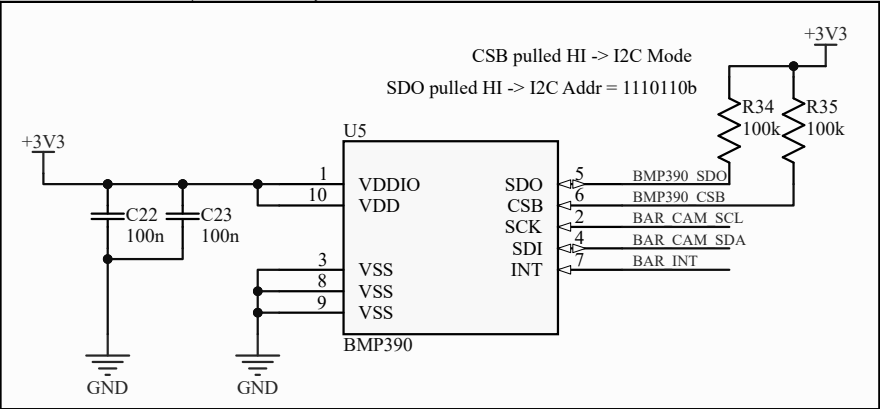
Inertial Measurement Unit - MPU6500



Magnetometer - LIS3MDL



Pressure Sensor (Barometer) - BMP390



Title		
Range Recon Mk. 1 - Sensors		
Size	Number	Revision
A		
Date:	6/04/2024	Sheet of
File:	C:\Users\...\SENSORS.SchDoc	Drawn By: J. T. Lautoa-Capelle

## A



## C

D

## D

4