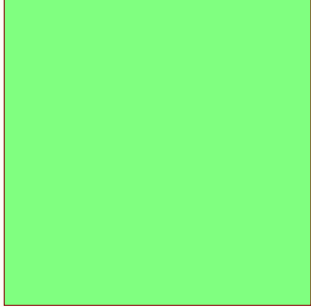
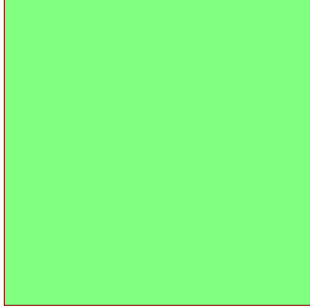


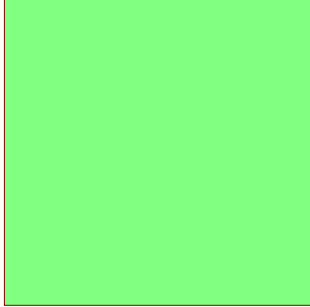
Designator
COVER PAGE.SchDoc



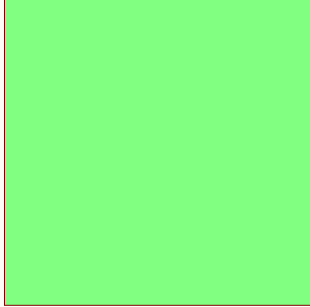
Designator
BLOCK DIAGRAM.SchDoc



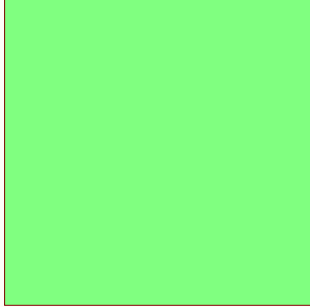
Designator
DOC REVISION HISTORY.SchDoc



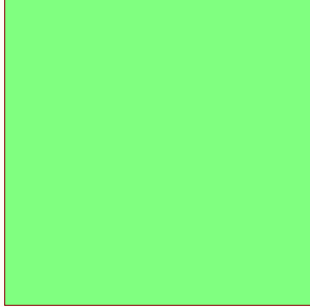
Designator
ESP32_S3.SchDoc



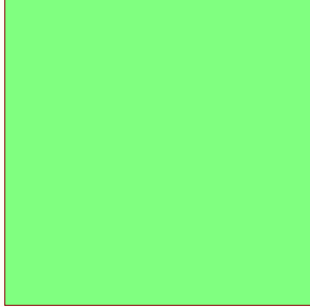
Designator
SENSORS.SchDoc



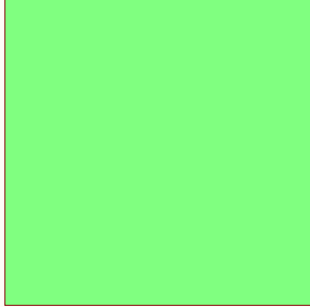
Designator
POWER.SchDoc



Designator
LoRa.SchDoc



Designator
GPS.SchDoc



TEMPLATE NOTES

Set Project Parameters

- 1) Go to Project -> Project Options -> Parameters
- 2) Set Company, Project and VersionRevision

Mark Not Fitted Components as

NF

Net Class Example



Differential signal example



TITLE Examples (You can change the color to reflect your company color)

PAGE TITLE

Peripheral / Group of component title

Smaller Ttitle


Schematic Status Explanation

DRAFT - Very early stage of schematic, ignore details.

PRELIMINARY - Close to final schematic.

CHECKED - There should not be any mistakes. Tell the engineer if you find one.

RELEASED - A board with this schematic has been sent to production.

Company: <i>MatchX</i>			CONFIDENTIAL. Do not distribute.	
Title: <i>X2E Reference Sensor</i> Variant: Default			<i>MatchX</i> * * * *	
Size: A3	Number: 1	Revision: V1.0		
Date: 13/06/2023	Time: 11:22:53	Sheet 1 of 9		
File: TOP SHEET.SchDoc				
			Engineer: PSB	

13/06/2023
V1.0

DRAFT


Page	Index	Page	Index	Page	Index	Page	Index
1	TOP PAGE	11	.....	21	.....	31	.....
2	COVER PAGE	12	.....	22	.....	32	.....
3	BLOCK DIAGRAM	13	.....	23	.....	33	.....
4	.....	14	.....	24	.....	34	.....
5	.....	15	.....	25	.....	35	.....
6	.....	16	.....	26	.....	36	.....
7	.....	17	.....	27	.....	37	.....
8	.....	18	.....	28	.....	38	.....
9	.....	19	.....	29	.....	39	.....
10	.....	20	.....	30	.....	40	.....

DESIGN NOTE:
Example text for informational
design notes .

DESIGN NOTE:
Example text for critical
design notes.

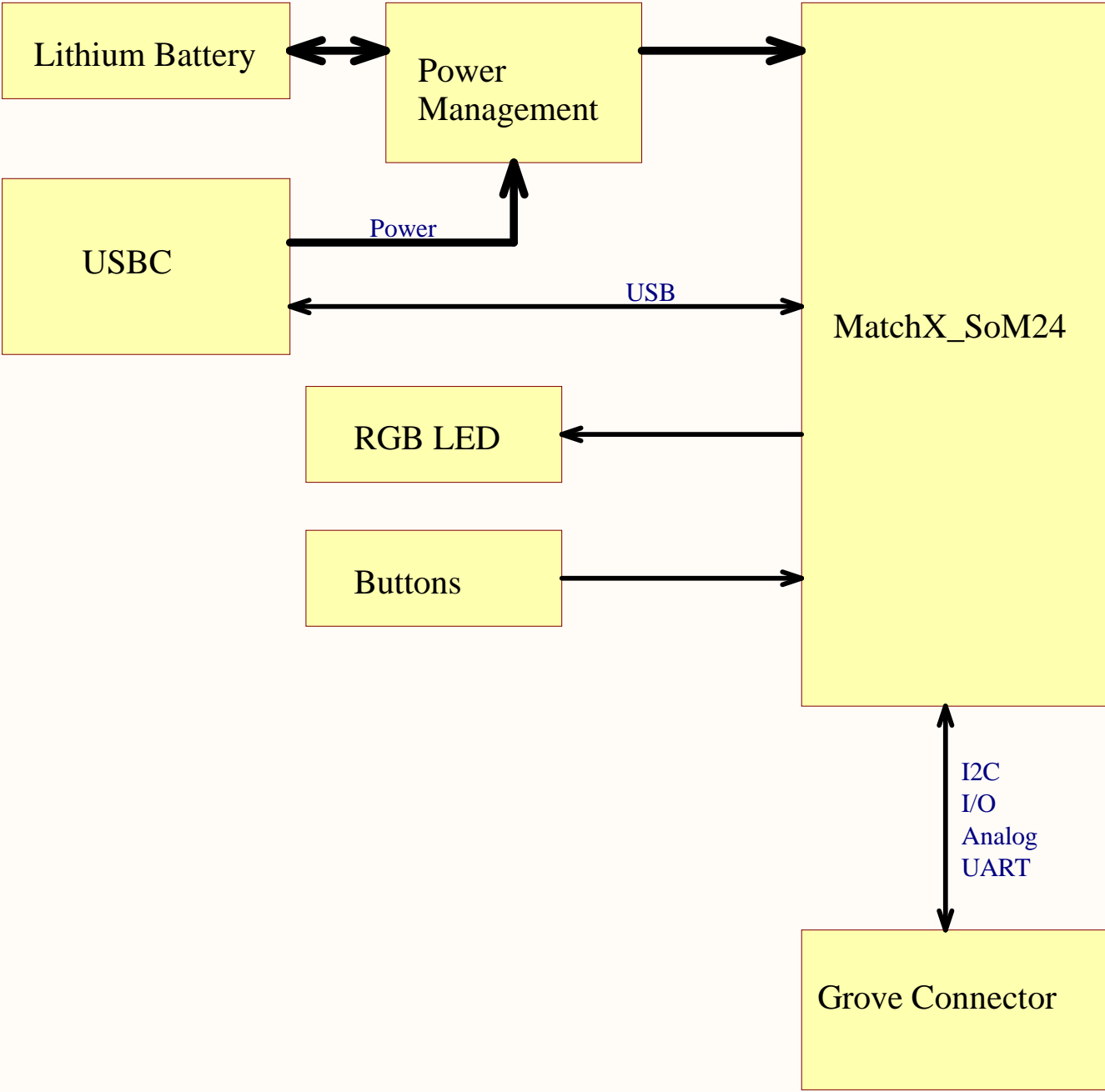
DESIGN NOTE:
Example text for cautionary
design notes.

LAYOUT NOTE:
Example text for critical
layout guidelines.

Company: <i>MatchX GmbH</i>			CONFIDENTAL. Do not distribute.	
Title: <i>X2E Reference Sensor</i> Variant: Default			<i>MatchX GmbH</i>	
Size: <i>A3</i>	Number: 1	Revision: 1.0		
Date: <i>13/06/2023</i>	Time: <i>11:22:53</i>	Sheet 2 of 9		
File: <i>COVER PAGE.SchDoc</i>				
			Engineer: <i>PSB</i>	

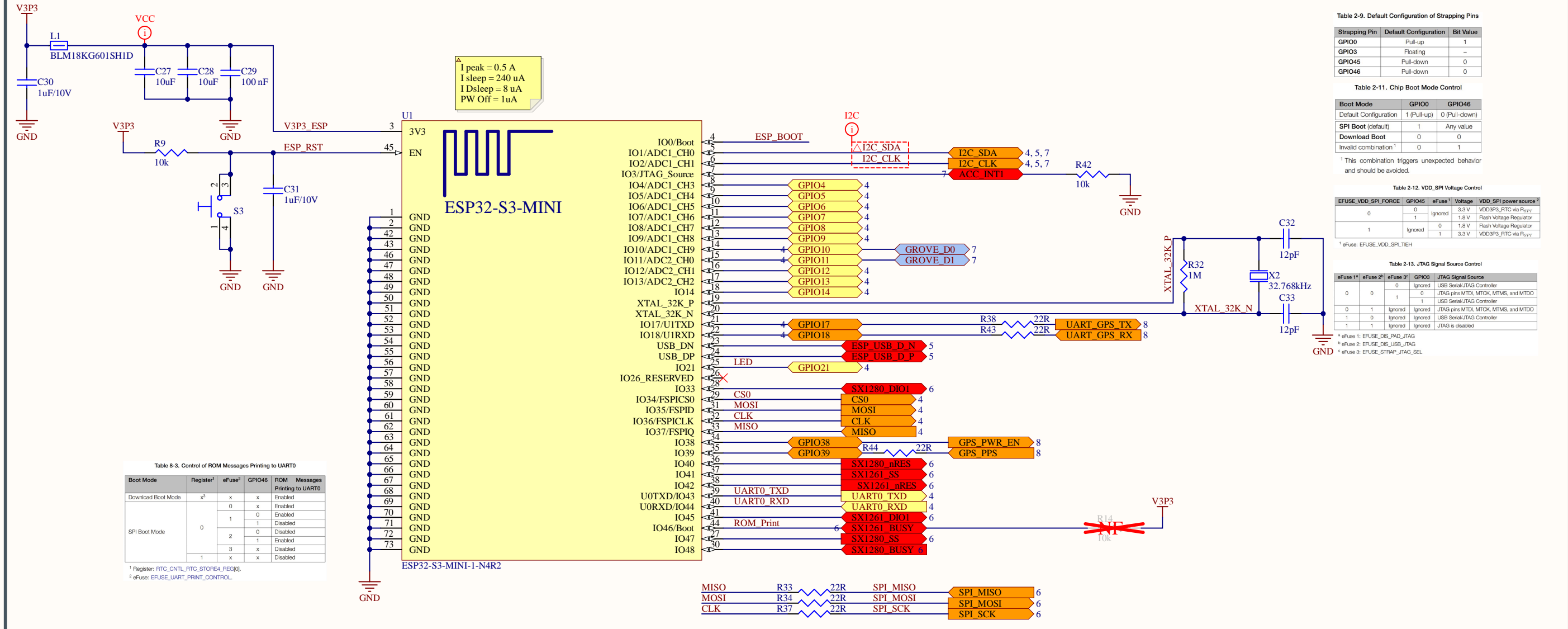
X2E Reference Sensor

(Block Diagram)

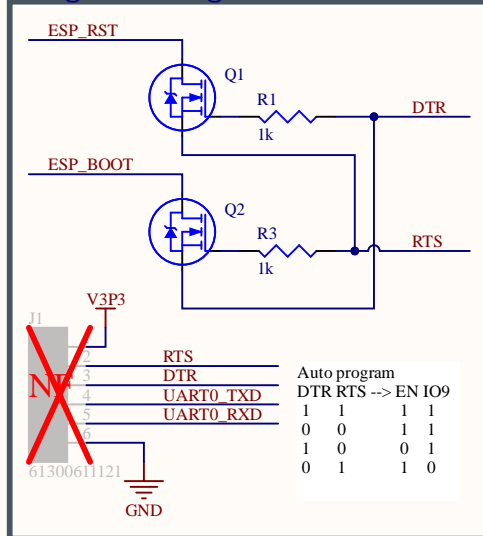


ESP32 S3.SchDoc

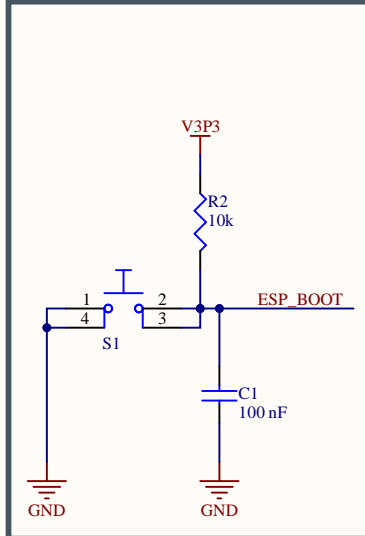
ESP32-S3 Module



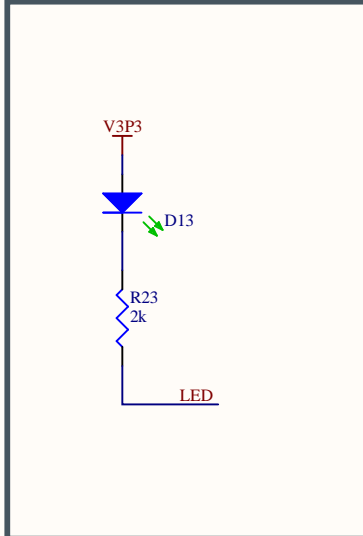
Programming interface



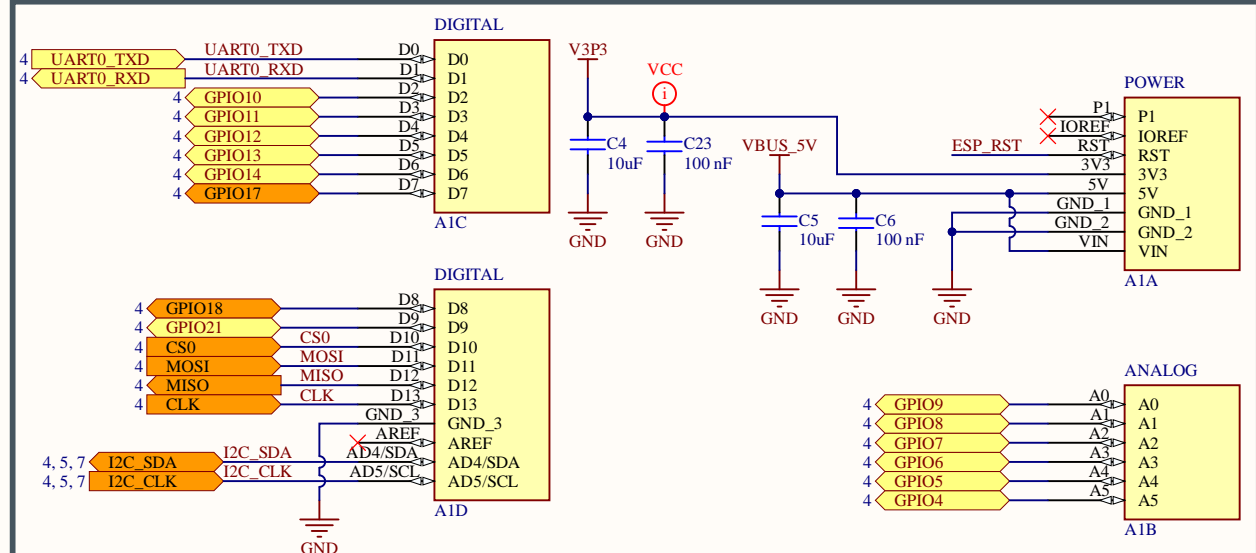
Boot




LED




Arduino Header

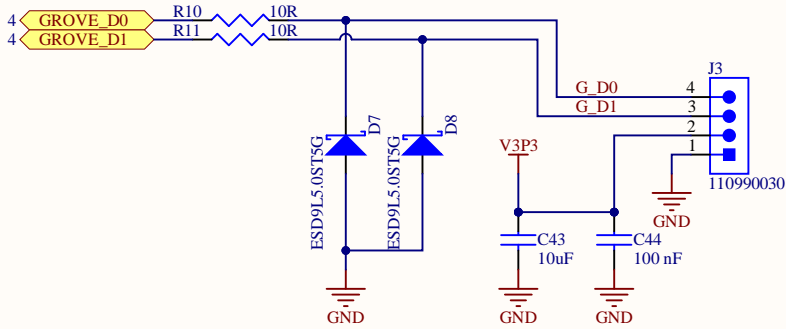


Company: MatchX GmbH			CONFIDENTIAL. Do not distribute.	
Title: X2E Reference Sensor Variant: Default			MatchX GmbH	
Size: A3	Number: 5	Revision: 1.0		
Date: 13/06/2023	Time: 11:22:54	Sheet 4 of 9		
File: ESP32_S3_SchDoc				
			Engineer: PSR	

[illegible]

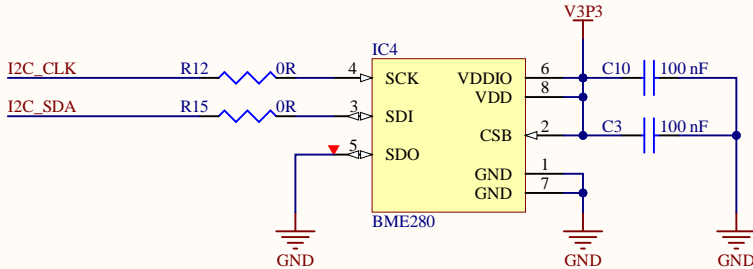
Company: <i>MatchX GmbH</i>			CONFIDENTIAL. Do not distribute.	
Title: <i>X2E Reference Sensor</i> Variant: Default			<i>MatchX GmbH</i>	
Size: <i>A3</i>	Number: <i>8</i>	Revision: <i>1.0</i>		
Date: <i>13/06/2023</i>	Time: <i>11:22:55</i>	Sheet <i>6</i> of <i>9</i>		
File: <i>LoRa.SchDoc</i>				
			Engineer: <i>PSB</i>	

Grove Connector



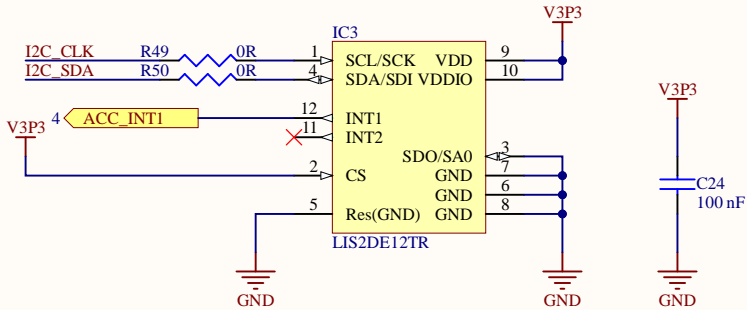
Pressure/Temp/Humidity Sensor

I2C 7 bits Address: 0x76

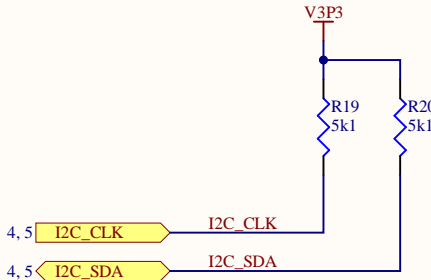


Accelerometer

I2C 7 bits Address: 0x18

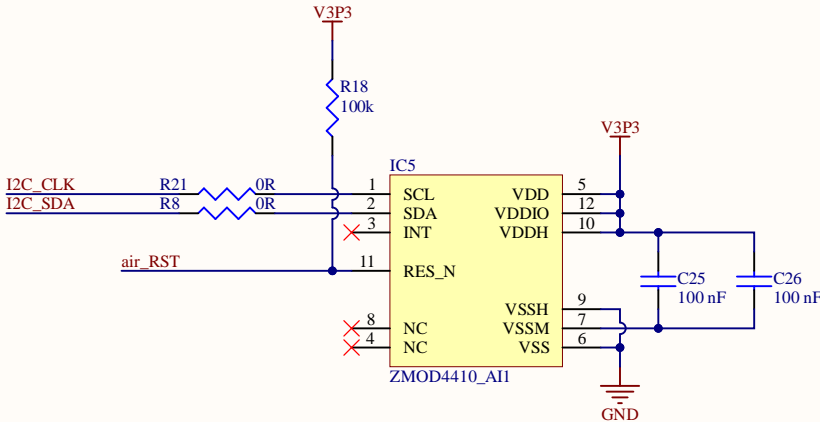


I2C Pull-Ups

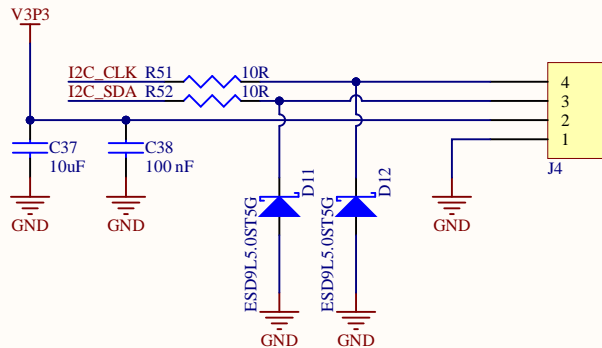


Air Quality Sensor

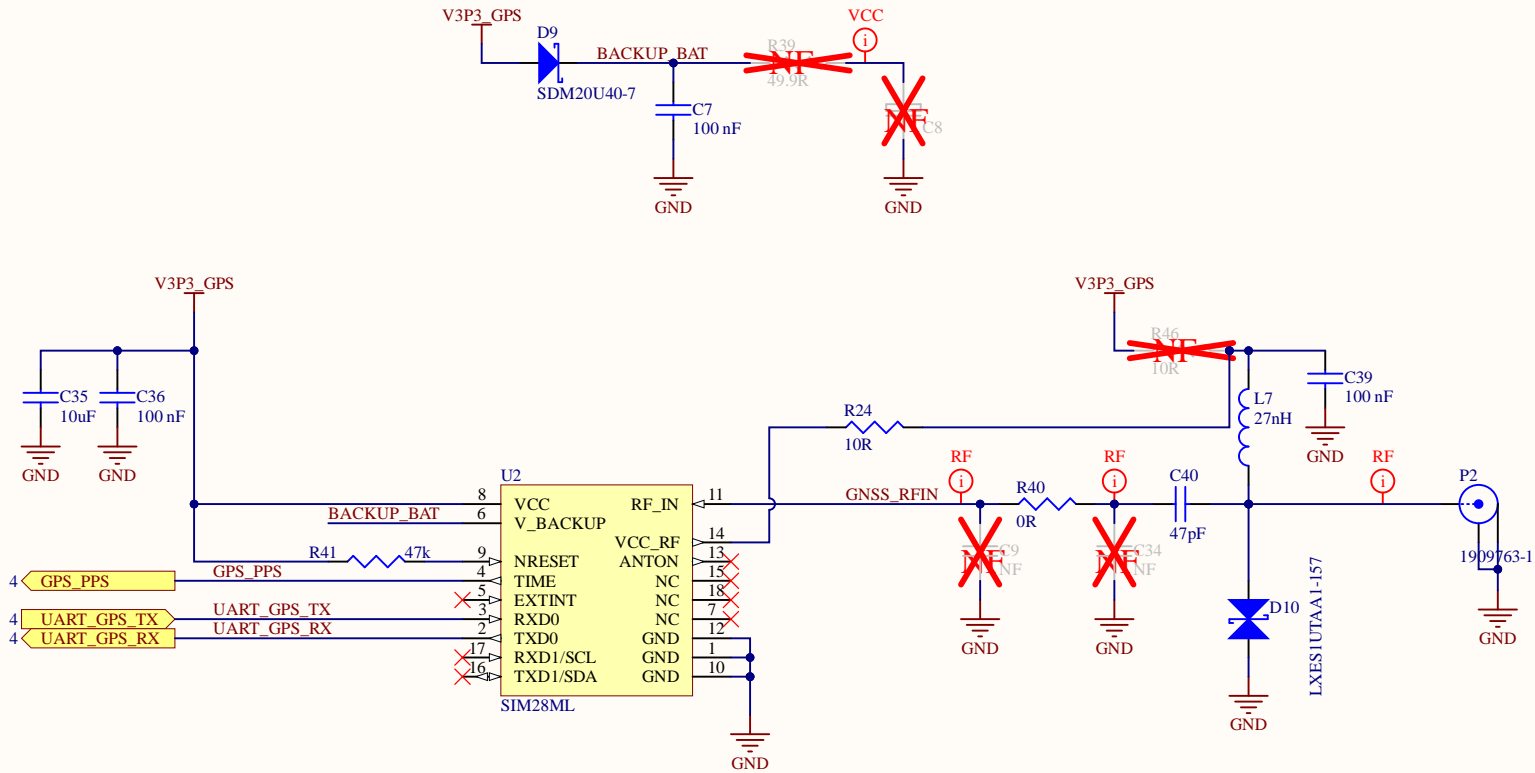
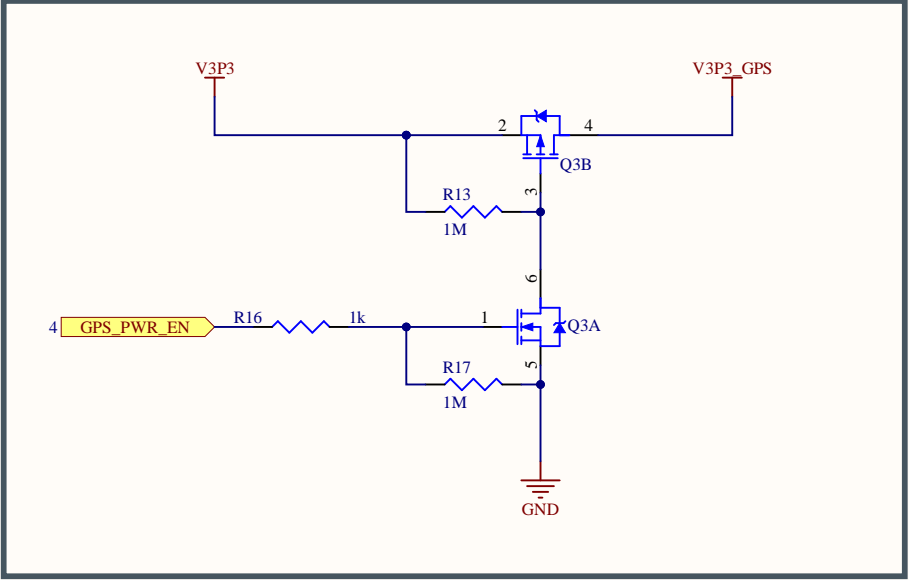
I2C 7 bits Address: 0x32



STEMMA 4-Pin



Power Enable




DOC: REVISION HISTORY

Revision History

TODO in rev.1.1

CLOCKS (CPU & PCIe)

Company: <i>MatchX GmbH</i>			CONFIDENTIAL. Do not distribute.	
Title: <i>X2E Reference Sensor</i> Variant: Default			<i>MatchX GmbH</i>	
Size: A3	Number: 8	Revision: 1.0		
Date: 13/06/2023	Time: 11:22:55	Sheet 9 of 9		
File: DOC REVISION HISTORY.SchDoc			Engineer: PSB	