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Title: TOP

ID: ABX00050

Revision: V1.0

Date: 2022-11-25 Time: 17:34:42

Sheet 1 of 7

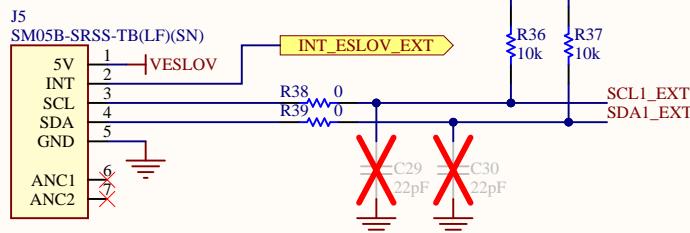
File: TOP.SchDoc

Author: Francesca Cenna

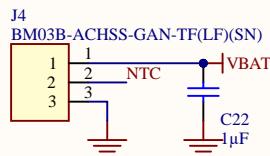


A

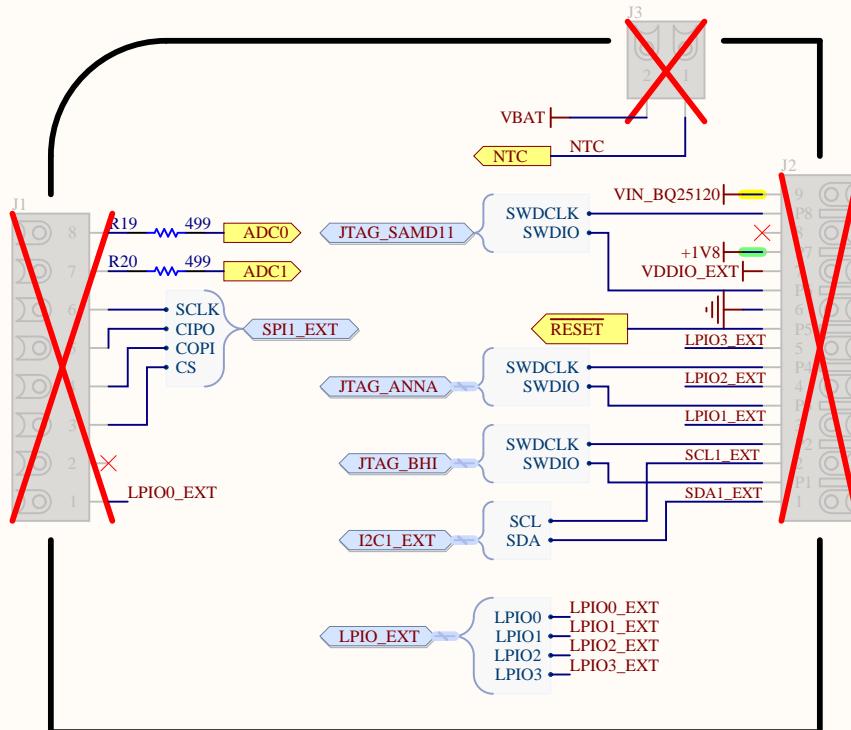
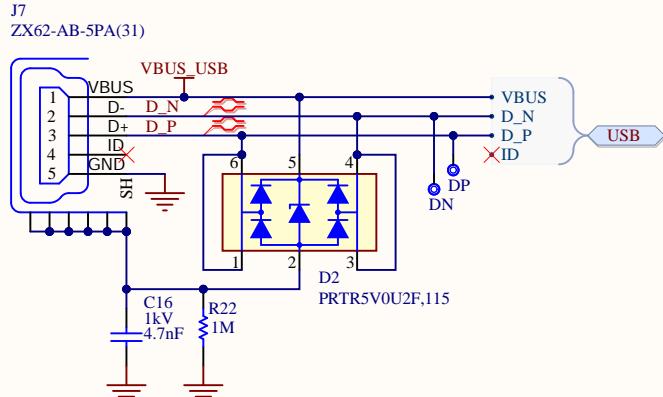
ESLOV CONNECTOR



BATTERY CONNECTOR



USB CONNECTOR



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Title: CONNECTORS

ID: ABX00050

Revision: V1.0

Date:

2022-11-25

Time: 17:34:45

Sheet 2 of 7

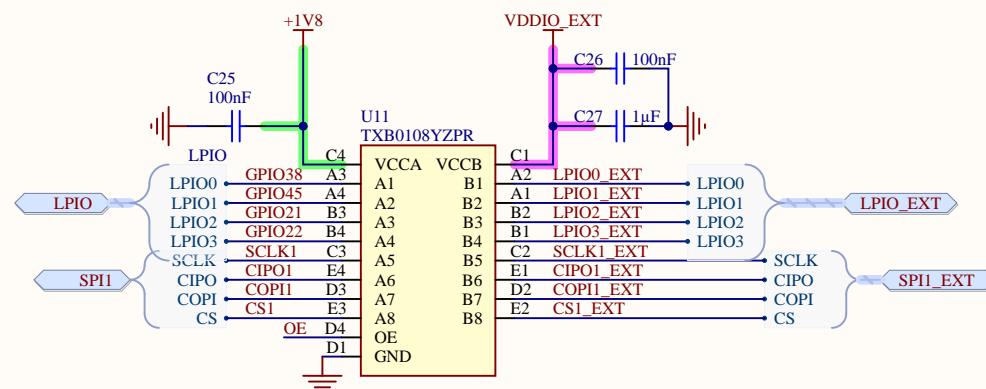
File: Connectors.SchDoc

Author: Francesca Cenna

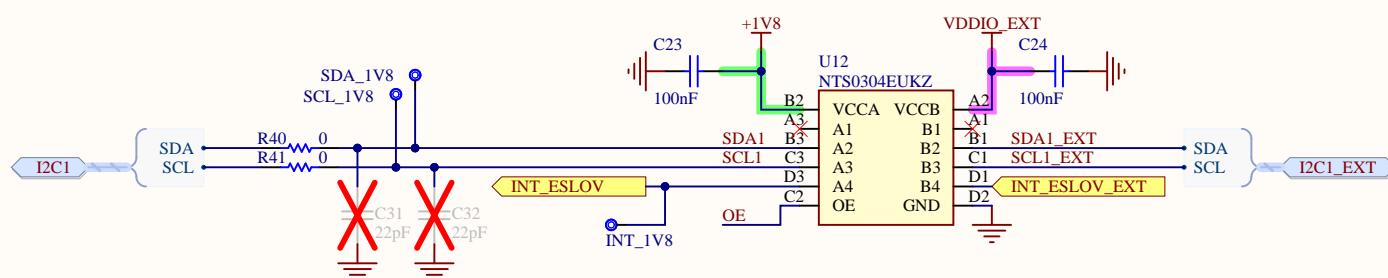
RevAuthor: Silvio Navaretti



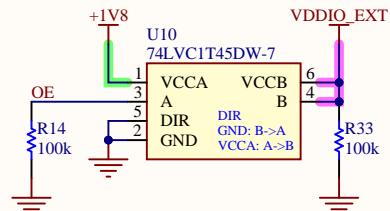
A



B



C



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Title: LEVEL SHIFTERS

ID: ABX00050

Revision: V1.0

Date: 2022-11-25

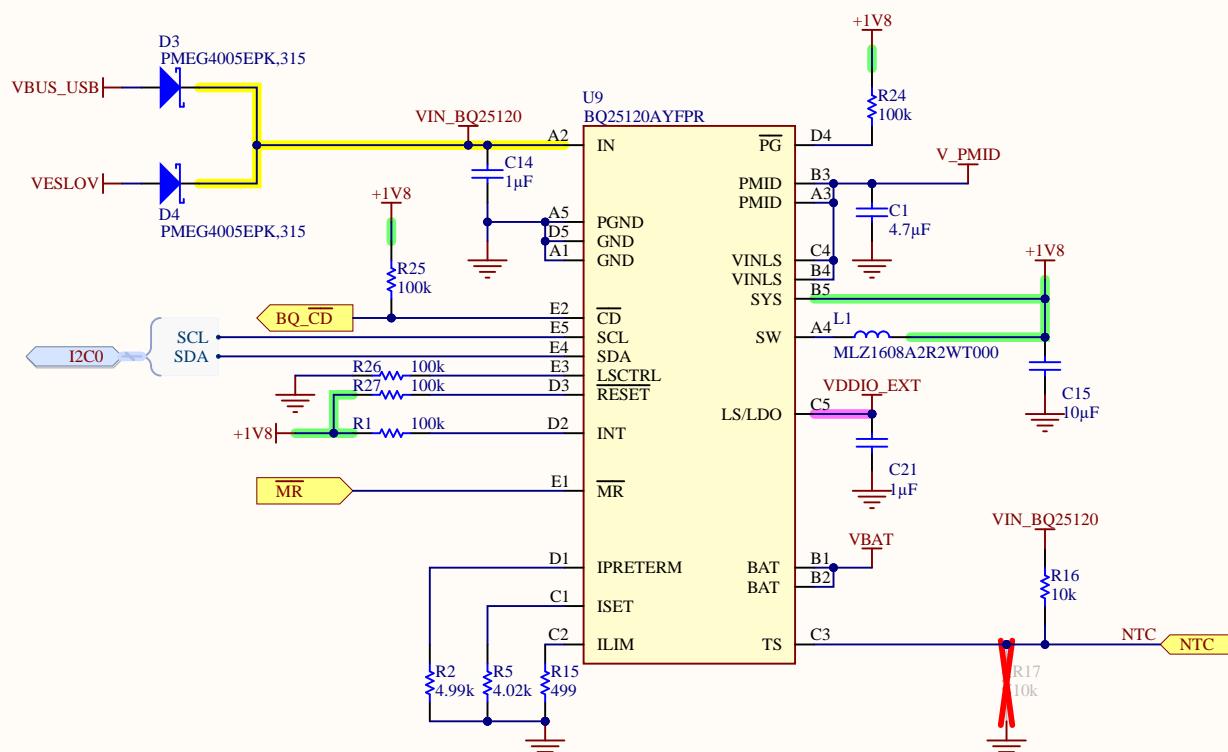
Time: 17:34:48

Sheet 3 of 7

File: LevelShifters.SchDoc

Author: Francesca Cenna





BATTERY-PACK NTC MONITOR		MIN	TYP	MAX	UNIT
V_{HOT}	High temperature threshold	V _{TS} falling, 1% V_{IN} Hysteresis	14.5	15	15.2
V_{WARM}	Warm temperature threshold	V _{TS} falling, 1% V_{IN} Hysteresis	20.1	20.5	20.8
V_{COOL}	Cool temperature threshold	V _{TS} rising, 1% V_{IN} Hysteresis	35.4	36	36.4
V_{COLD}	Low temperature threshold	V _{TS} rising, 1% V_{IN} Hysteresis	39.3	39.8	40.2
TS_{OFF}	TS Disable threshold	V _{TS} rising, 2% V_{IN} Hysteresis	55		60
V_{IN}		% V_{IN}			

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Title: **POWER**

ID: **ABX00050**

Revision: **V1.0**

Date: **2022-11-25** Time: **17:34:50**

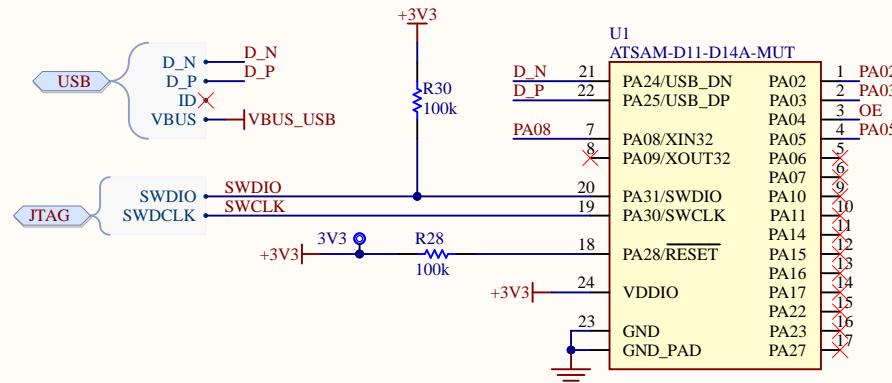
Sheet **4** of **7**

File: **Power_bq.SchDoc**

Author: **Francesca Cenna**

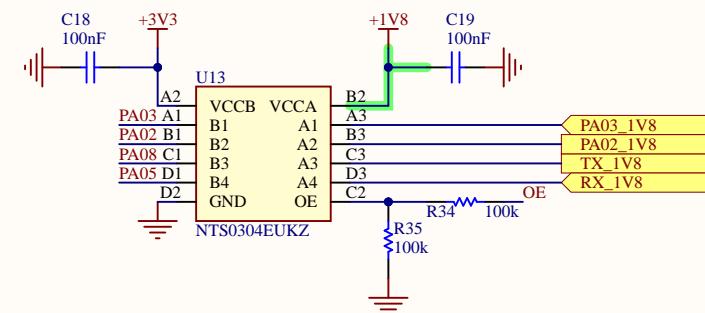


A



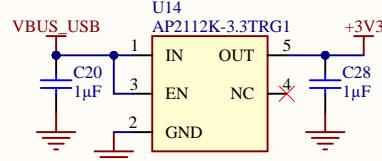
B

LEVEL TRANSLATOR



C

LDO 3V3



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Title: **USB BRIDGE**

ID: **ABX00050**

Revision: **V1.0**

Date: **2022-11-25** Time: **17:34:53**

Sheet **5** of **7**

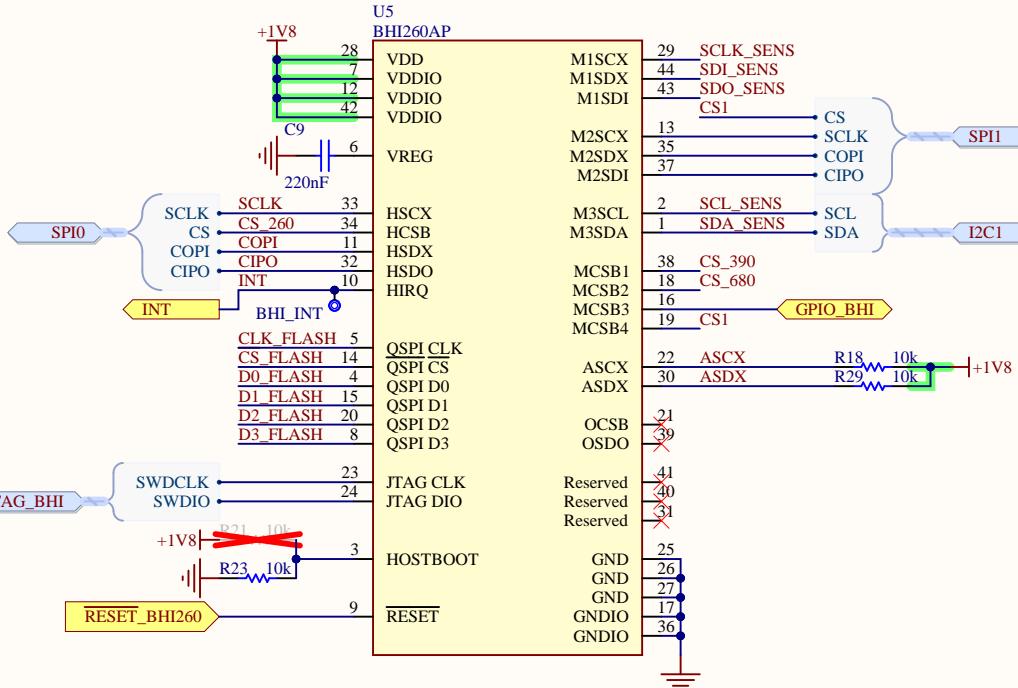
File: **SAMD11 USB Bridge.SchDoc**

Author: **Francesca Cenna**

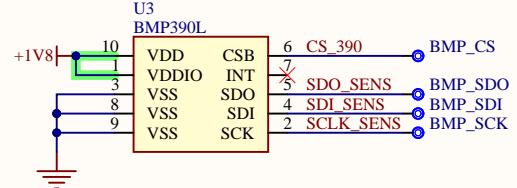


1 2 3 4

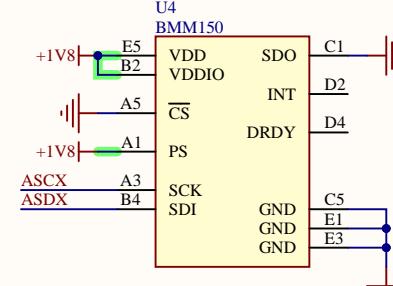
Sensor Fusion / 6 DOF IMU



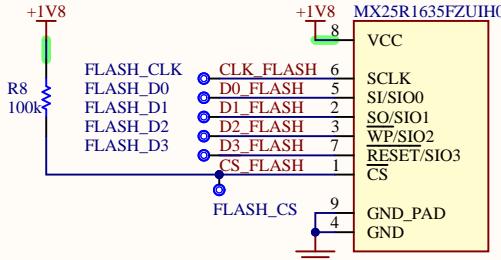
Pressure Sensor



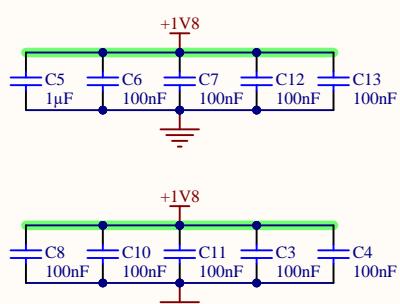
Magnetometer



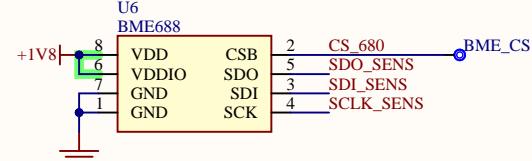
BHI Flash



Bypass Capacitors



Pressure, Humidity, Temperature, VOC



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Title: **SENSORS**

ID: **ABX00050**

Revision: **V1.0**

Date: **2022-11-25**

Time: **17:34:56**

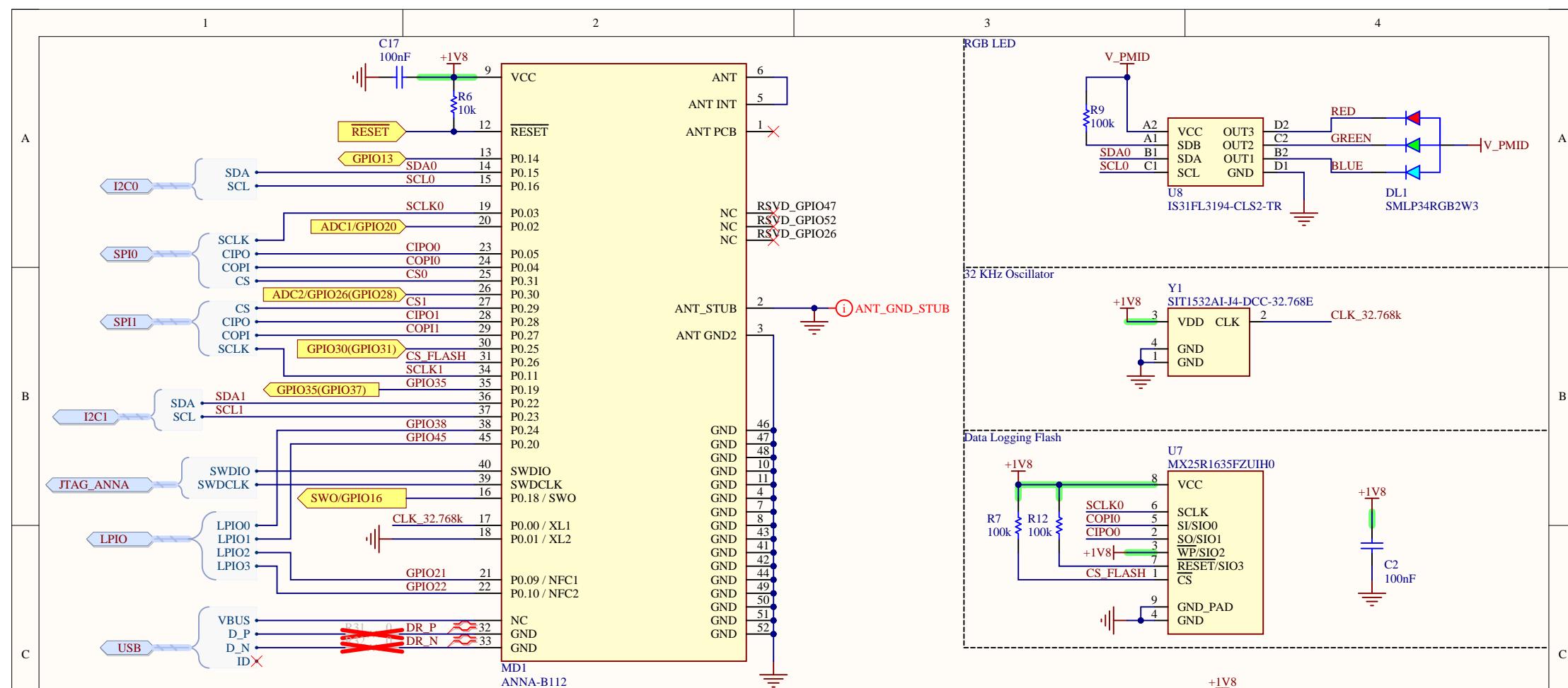
Sheet **6** of **7**

File: **Sensors.SchDoc**

Author: **Francesca Cenna**



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Title: ANNAB112			
ID: ABX00050	Revision: V1.0		
Date: 2022-11-25	Time: 17:34:59	Sheet 7 of 7	
File: ANNAB112_BO.SchDoc	Author: Francesca Cenna	RevAuthor: Silvio Navaretti	