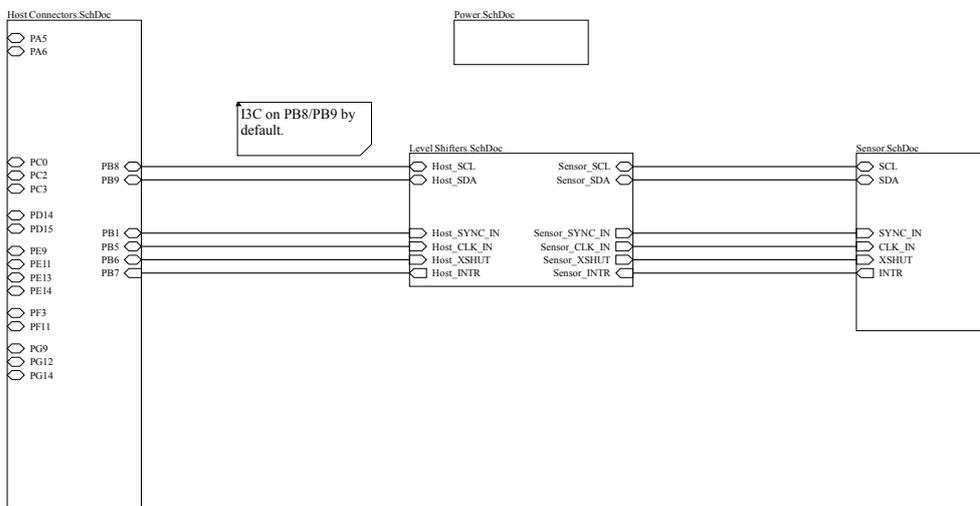


Schematic diagrams

Figure 1. X-NUCLEO-53L9A1 circuit schematic (1 of 6)

Title SchDoc

Mechanical SchDoc



H5 Nucleo board NUCLEO-H563ZI (NUH563ZISM1)
 User Manual UM3115
https://www.st.com/resource/en/user_manual/um3115-stm32b5-nucleo144-board-mb1404-stm-icorelectronics.pdf

N6 Nucleo board NUCLEO-N657X0-Q
 User Manual UM3417
https://www.st.com/resource/en/user_manual/um3417-stm32n6-nucleo144-board-mb1940-stm-icorelectronics.pdf

Connects to ST Zio connectors on Nucleo board (subset with ARDUINO Uno V3 support).

Figure 2. X-NUCLEO-53L9A1 circuit schematic (2 of 6)

Tested with STM32H5 Nucleo-144 board (MB1404) - Order Code:NUCLEO-H563ZI

Compatible with STM32 Nucleo boards

Compatible with Arduino UNO R3 connectors

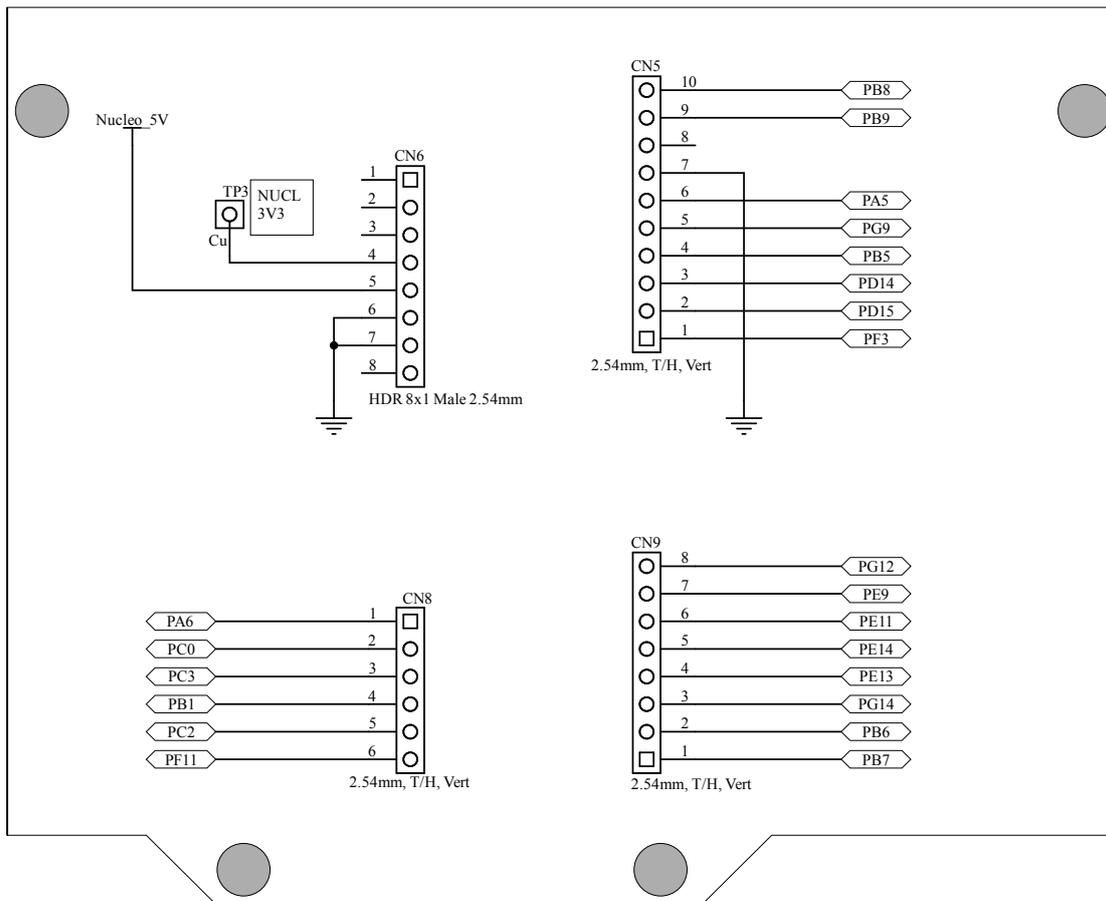
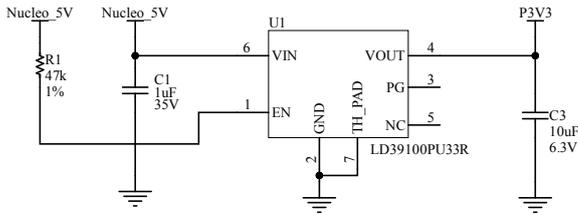


Figure 3. X-NUCLEO-53L9A1 circuit schematic (3 of 6)
Power Supplies

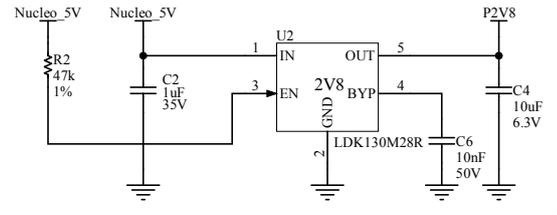
3V3 Gen

Output = 3.3 V @ 1 A



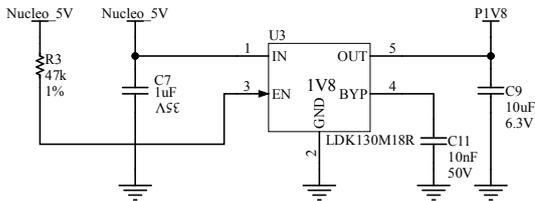
2V8 Gen

Output = 2.8 V @ 300 mA



1V8 Gen

Output = 1.8 V @ 300 mA



1V2 Gen

Output = 1.2 V @ 300 mA

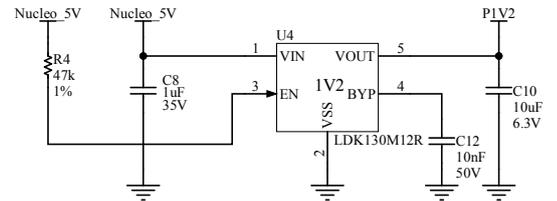


Figure 4. X-NUCLEO-53L9A1 circuit schematic (4 of 6)

VOLTAGE LEVEL SHIFTERS
 3.3 V or 1.8 V <--> IOVDD (1.8 V or 1.2 V)

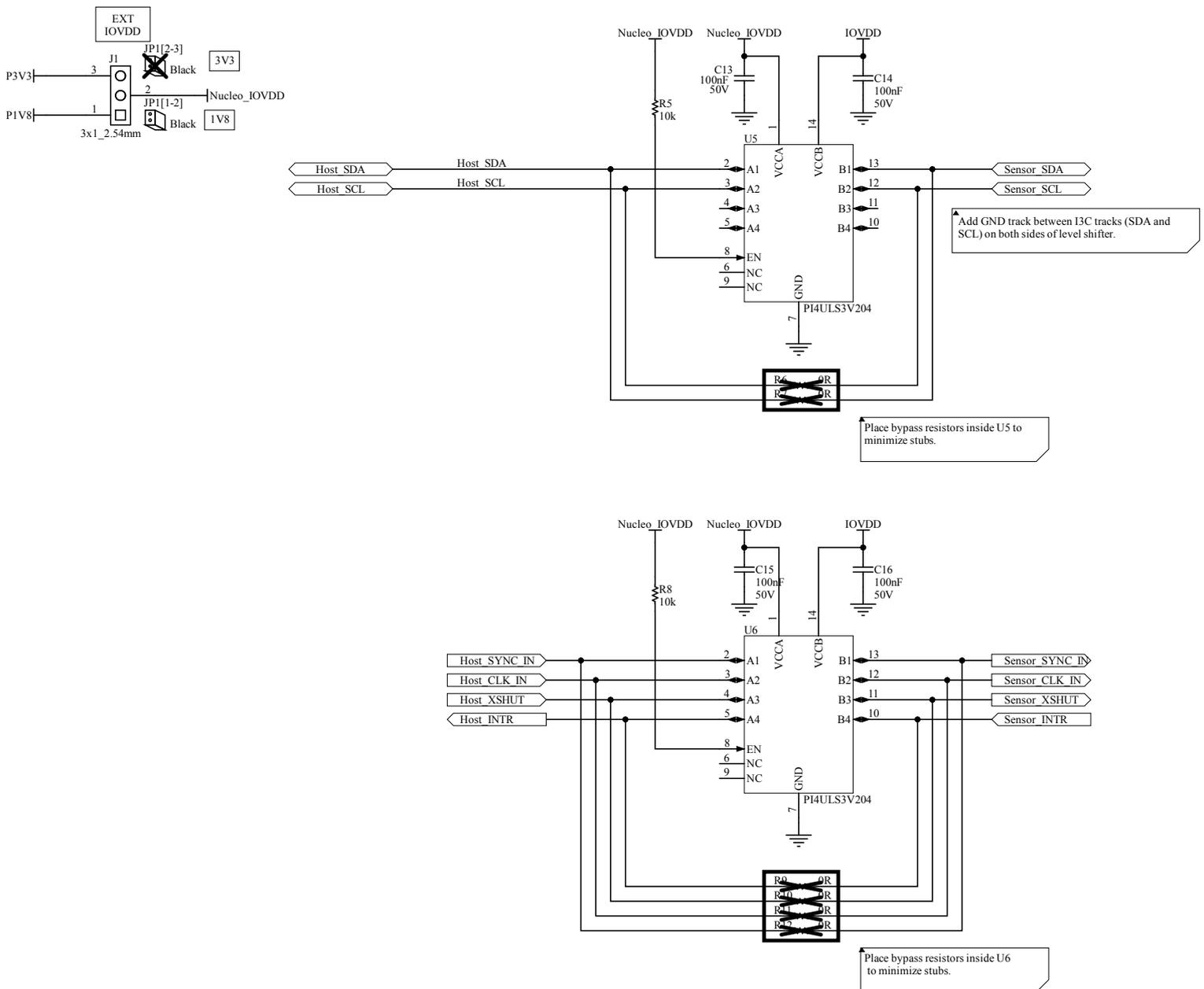


Figure 5. X-NUCLEO-53L9A1 circuit schematic (5 of 6)

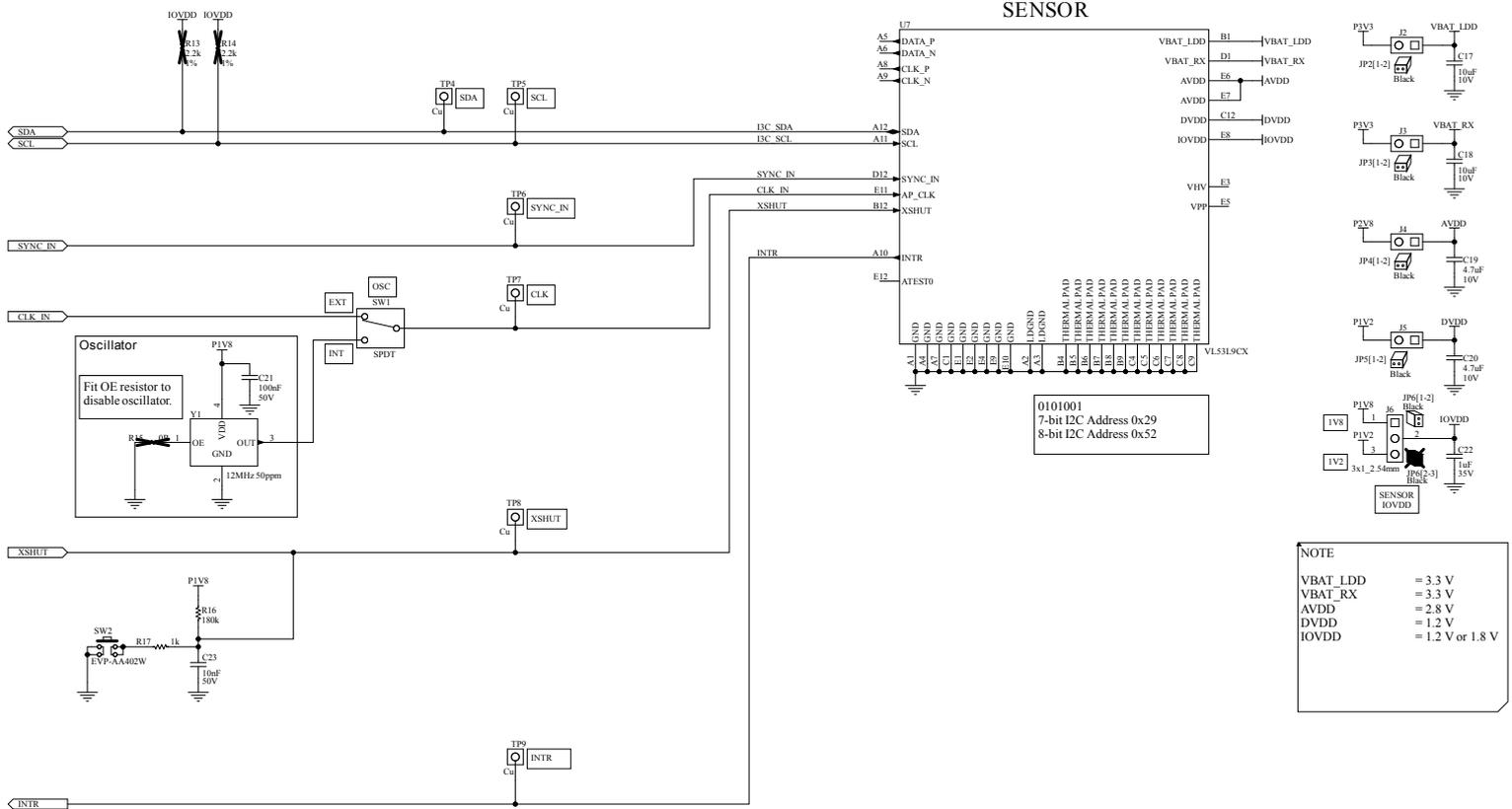
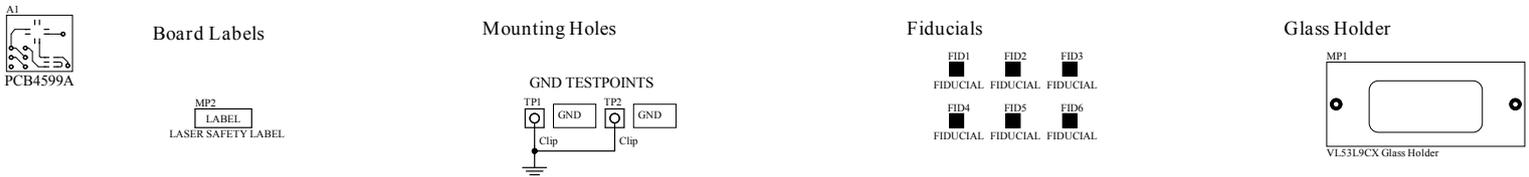


Figure 6. X-NUCLEO-53L9A1 circuit schematic (6 of 6)



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