



SOC2030 Revision 3

Recovery procedure from low leakage
hard standby mode

SOC2030 Revision3 Status

- SOC-2030 has passed Aptina Qualification , Image Characterization and Functional testing.
- Aptina Believes the part is ready for Mass Production.
- However in one standby mode a reset is required. This differs from the behavior of our other sensors.
- Please review the following slides for details.

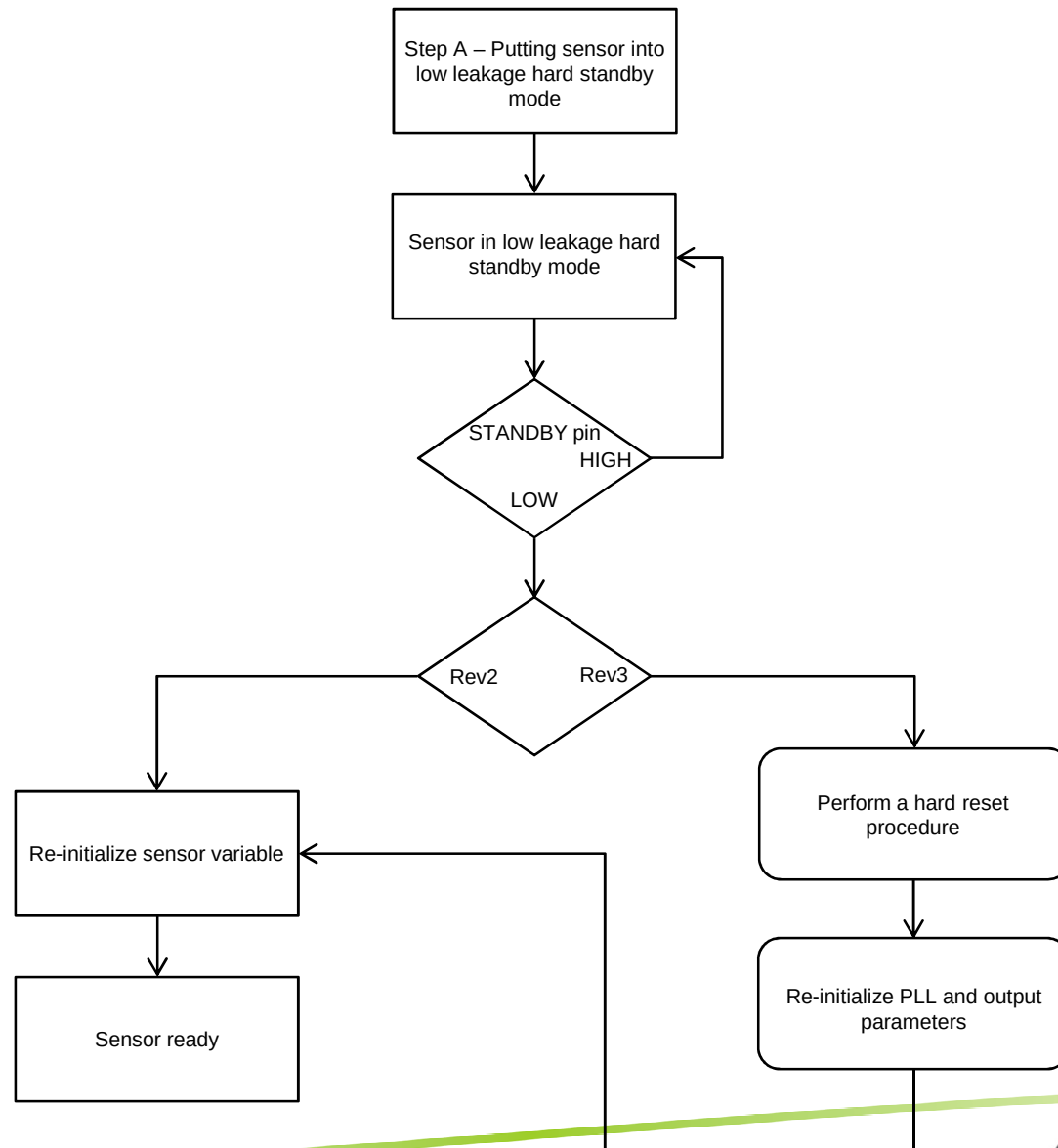
Standby Modes in SOC2030

- SOC-2030 has 3 major standby modes. Customers can choose the mode that meets their needs.
 - ▶ Low Leakage Mode by setting (R0x0028 = 1) and STANDBY pin high (Total current 20uA at 70C, 10uA at 25C)
 - ▶ High Leakage Mode by setting (R0x0028 = 0) and STANDBY pin high (Total current 70uA at 70C, 20uA at 25C)
 - ▶ Soft Standby – by setting R0x0018[0] = 1 (Total current ~2mA at 70C)

Recovery from low leakage hard standby in Rev3

- Recovery from low leakage standby requires a hard reset procedure
- Other standby modes do not require a reset procedure
 - ▶ High Leakage Hard Standby does not require a hard reset procedure.
 - ▶ Soft Standby does not require a hard reset procedure

Low Comparison with Rev2 recovery



Low Leakage Hard Standby overhead in Rev3

- Requires a hard reset procedure
 - ▶ Hard reset requires toggle in RESET pin
 - ▶ Additional “6” numbers of I2C writes to set up PLL and outputs
- Please contact Aptina for detail requirements.

