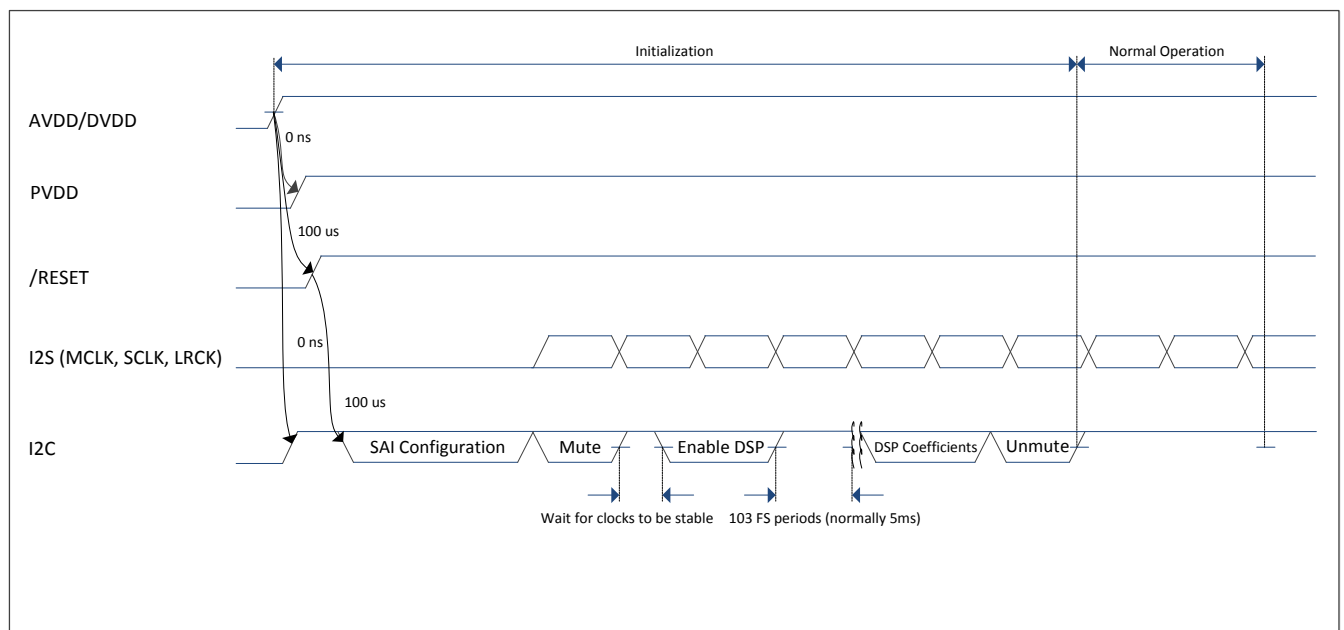


Appendix B Power-Up and Power-Down Sequence

B.1 Power-Up Sequence

1. Hold all digital inputs low and bring up power supplies (it doesn't matter if AVDD/DVDD or PVDD comes up first).
2. Hold $\overline{\text{RESET}}$ low and initialize digital inputs to their desired states. Wait at least 100 μs , pull $\overline{\text{RESET}}$ high and then wait at least another 100 μs .
3. Configure the SAI (Serial Audio Interface) as required via i2c and then start MCLK, SCLK and LRCLK (no sequence required).
4. Mute the device (write 0x11 to B0-P0-R3) or pulling low $\overline{\text{SPK_MUTE}}$ pin.
5. Once clocks are stable, put the device into normal operation mode (write 0x00 to B0-P0-R2), and wait at least 103 FS periods (normally 5ms).
6. Start to program DSP coefficients. If a process flow with SmartAmp processing is used, like Process Flow 2, Process Flow 4 or Process Flow 6, it is required to download DSP instructions only after DSP has been reset (write 0x80 to B0-P0-R2).
7. Unmute the device (write 0x00 to B0-P0-R3) or pulling high $\overline{\text{SPK_MUTE}}$ pin.
8. The device is now in normal operation.



B.2 Power-Down Sequence

1. Put the device into power down mode (write 0x01 to B0-P0-R2).
2. Wait at least 2ms and then pull $\overline{\text{RESET}}$ low.
3. The clocks can be stopped and the power supplies brought down after $\overline{\text{RESET}}$ has been low for at least 2 μs .
4. The device is now fully shutdown and powered off.

