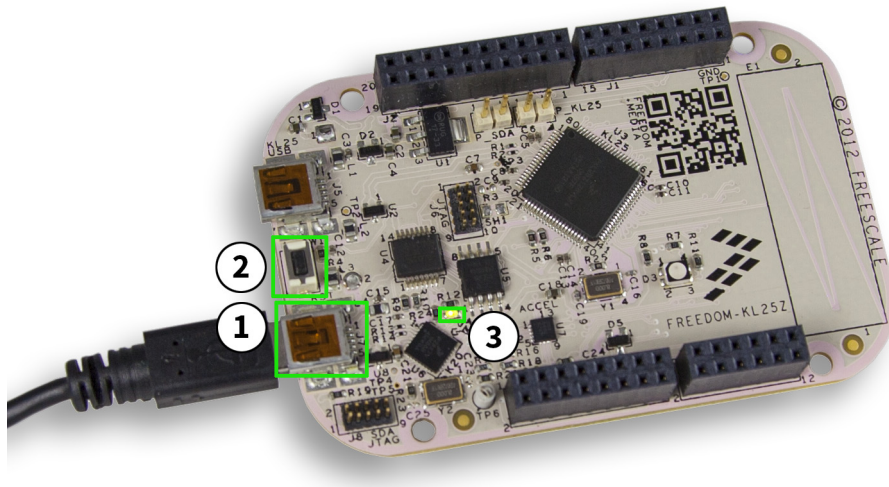# OpenSDA Firmware Update Instructions

OpenSDA Board Example - (1) USB Port, (2) Reset Button, (3) LED

You can follow the simple steps below in order to upgrade the firmware of the board, or alternately, to switch between the "Debug" and "Mass Storage Device" (MSD) modes.

Please note that the picture above is of a Freescale™ Freedom Board. The same procedure can be repeated on any other board that implements OpenSDA, keeping in mind that the button featured in Box #2 above will be the Reset Button found on your board.

1. Hold down the Reset Button (located in box #2 above) and then power the board by connecting to the USB port (located in box #1 above). You will notice the LED blink (located in box #3 above), indicating that the board is now in Bootloader mode. You can release the Reset Button at this point.

2. Open Windows Explorer and locate the "BOOTLOADER" thumb drive.

3. If necessary, extract the DEBUG-APP-Vxxx.SDA file from the Pemicro_OpenSDA_Debug_MSD_Update_Apps_yyyy_mm_dd.zip file.

4. Drag the DEBUG-APP-Vxxx.SDA file onto the thumb drive (any application or firmware file can be drag-and-dropped onto the device at this point).

5. Remove and replace the USB cable. The Freedom Board is now updated to the latest firmware or application.

For the latest applications and drivers, please visit us at **pemicro.com/opensda**.