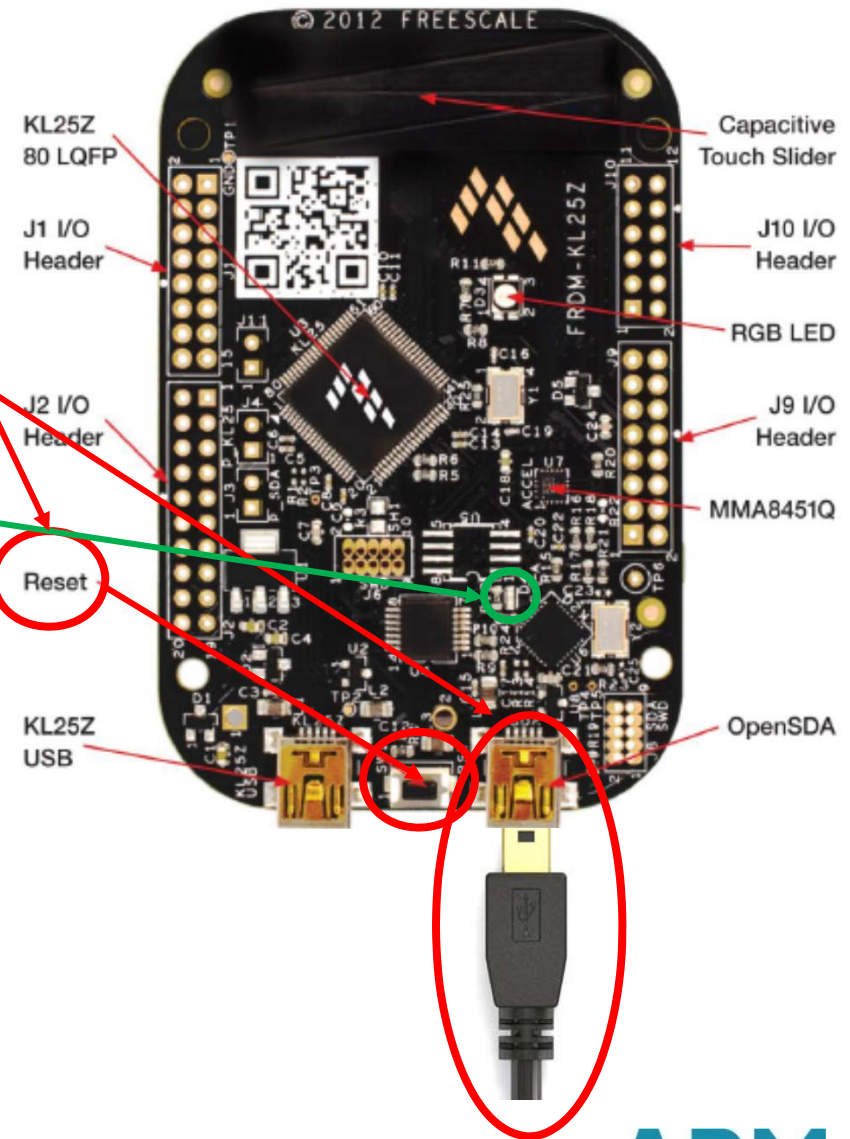


Updating the Bootloader (I)

- Need a Windows 7 machine to reflash the board
- While holding down the KL25Z's reset switch, connect a USB cable between the PC and Freedom board's OpenSDA USB port
- The Freedom board will be recognized by the PC as removable mass storage device called **BOOTLOADER**
 - Small green LED will flash at 1 Hz, indicating bootloader mode.
- Release the reset switch
- On the PC in File Explorer, drag the file **BOOTUPDATEAPP_Pemicro_v111.SDA** (e.g.) to the **BOOTLOADER** drive
- Unplug and replug the Freedom to trigger reprogramming, which should be fast (under 5 seconds)

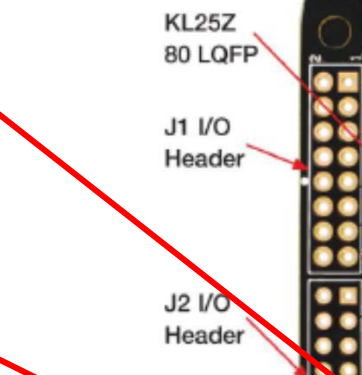


ARM

Updating the Bootloader (2)

- Once update is complete, OpenSDA will automatically enumerate in Bootloader mode and green status LED will flash at 1 Hz.
- Verify new version of bootloader by opening the SDA_INFO.HTM file in the root directory of the Bootloader "drive".

Updating the Debugger Application

- While holding down the KL25Z's reset switch, connect a USB cable between the PC and Freedom board's OpenSDA USB port
 - The Freedom board will be recognized by the PC as removable mass storage device called **BOOTLOADER**
 - Small green LED will flash at 1 Hz.
 - Release the reset switch
 - On the PC in File Explorer, drag the file CMSIS-DAP.S19 to **BOOTLOADER** drive
 - Disconnect/reconnect the Freedom board's USB cable.
 - Don't press the reset switch
 - The green light should not be flashing
 - Now you can program the Freedom board using the CMSIS-DAP debugger connection in MDK. See step 32 of App. Note 232 for further details.
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- The diagram shows a side view of the KL25Z 80 LQFP microcontroller package. Key components are labeled: KL25Z 80 LQFP, J1 I/O Header, J2 I/O Header, Reset (a small circular button), and KL25Z USB. Red lines connect the text instructions to the components: one from 'reset switch' to the Reset button, one from 'USB cable' to the USB connector, and one from 'Small green LED' to the J2 I/O Header. A green line connects the text 'Release the reset switch' to the Reset button.

