Firmware Update Procedure – USB method (Mac only)

System Requirements

Platform

- Apple® system with SATA II or SATA III interface
- Kingston SandForce-based SSD
- 4GB or larger USB drive (not all USB devices supported)

OS Support

- Mac OSX 10.8+
(required for creating bootable USB drive)
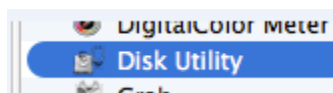
System Preparation

- As a precaution, perform a backup of all your data to ensure no data is lost during the firmware update process
- Do not unplug power at any time during the firmware update
- Use only native SATA ports to perform upgrade. Do NOT use third party controllers
- Notebook users, please use AC power to prevent any power loss during firmware upgrade

Getting Started

These instructions are designed to walk you through the process of creating a bootable USB drive and through the firmware update procedure. **Please perform a backup of your data before proceeding.**
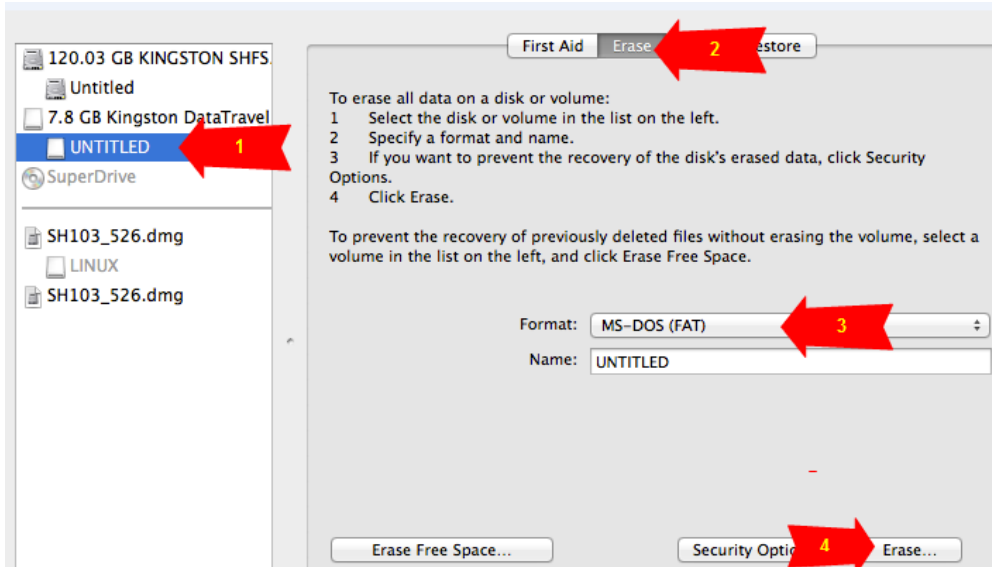
Instructions for Creating Bootable USB Media

1. First, download the .dmg firmware file and firmware update instructions by visiting Kingston.com/support.

2. Locate a USB drive you intend to use and back up all data on the drive. You will need to format it in order to continue. When formatting a USB drive, all data will be lost.
   Note: Not all USB drives are supported.

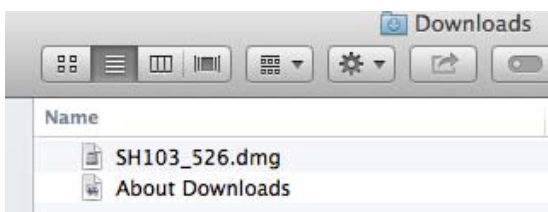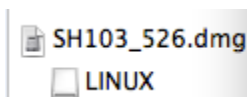3. Within Mac OSX, open the Disk Utility application

4. Select the target USB drive **volume** within Disk Utility, click the "Erase" tab at the top of the screen, select "Format: MS-DOS (FAT)", and click "Erase" to continue. Do not close the Disk Utility application.

5. If you haven't already, download the appropriate firmware package from **Kingston.com/support**. If you have, please continue to step 6.

6. Locate your firmware download and **mount the .dmg file by double-clicking** (*SH103_526 shown*).

7. Return to Disk Utility. Your firmware .dmg file will have a "Linux" volume associated with it.
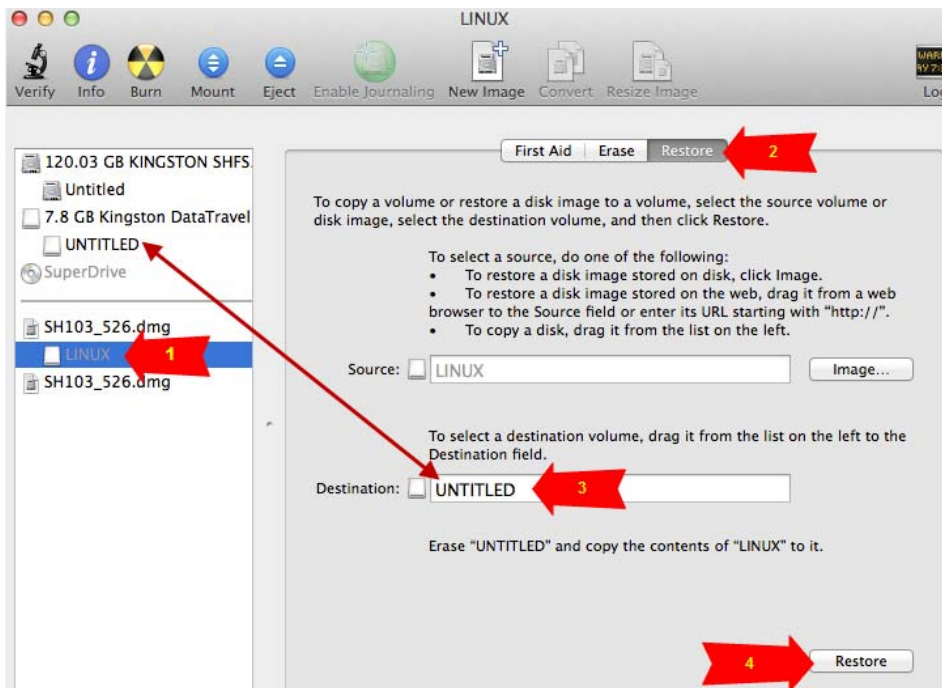
8. Select the Linux volume, click on the "Restore" tab at the top of the window, drag the "untitled" volume into the "Destination" field and click "Restore".
Note: The volume name may vary; "Untitled" is used in the example below.

 If the restore attempt fails, it's possible that your USB drive is not supported. Locate another USB to continue, or try downloading the bootable CD/DVD version from Kingston.com/support.

9. Once Disk Utility is done building your bootable USB drive, the volume name will change to "Linux". At this point, you may shut down your system and continue on to the next section titled "Updating SSD Firmware with USB Bootable Media".
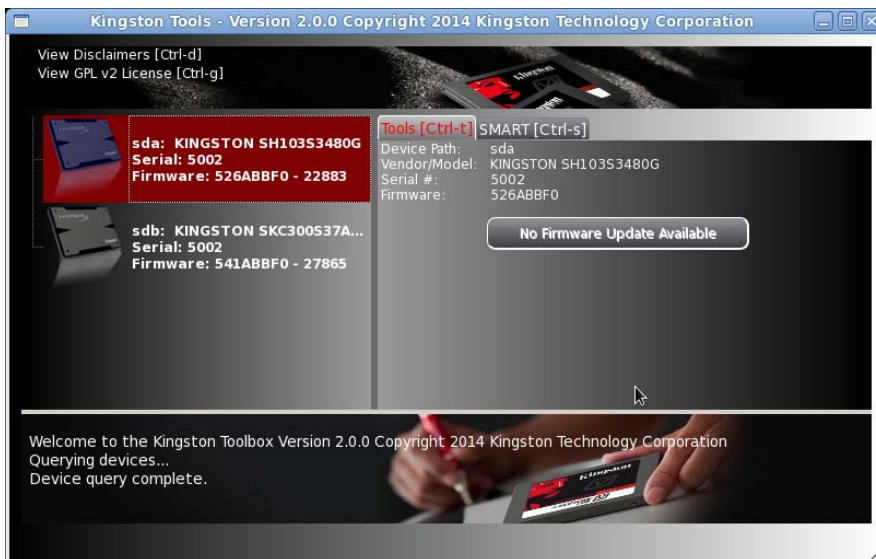
Updating SSD Firmware with USB Bootable Media

*Note: Upon booting from the Kingston Tools Utility, **your track pad may be disabled depending on the version of your notebook.** To resolve this, the following instructions will guide you through the firmware update using only your keyboard. If you choose to use a USB mouse, you may navigate and update via mouse clicks where appropriate.*

1. Make sure your Mac notebook / desktop is powered down.

2. Insert USB drive containing bootable .dmg contents.

3. Hold the "option" key down and power on Mac system.

4. Wait for the "EFI boot" option to appear, release the option key and then select "EFI boot" to continue.

5. Wait for the firmware update window to appear.

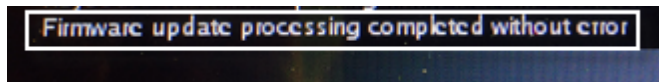6. Select the drive you wish to update. *(SH103S3/480G pictured)*

7. Type "**Ctrl + f**" to execute update. *(SH103 526 firmware update shown)*

8. Once the update completes successfully, you may quit the application and shutdown.

To quit the application, type "option + Tab", select "Exit", click "OK" (you may navigate through these options by pressing the "Tab" key).

Wait 10 seconds and then power on to continue using your SSD.
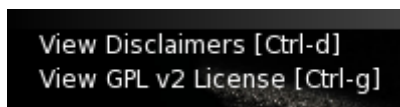
Accessing SMART Info

1. Type "Ctrl + s" to navigate to the SMART data tab

2. Use arrows to navigate up / down through SMART attribute data.

3. To return to the **Tools** menu, type "**Ctrl + t**"

View Disclaimers and GPL v2 License

1. To view disclaimers, type "**Ctrl + d**"

2. To view the GPL v2 License, type "**Ctrl + g**"

Quitting the Application

1. Type "option + Tab", select "Exit", click "OK" (you may navigate through these options by pressing the "Tab" key).