SSD7101A-1 – Configuring a Single, Bootable NVMe SSD with macOS

Contents

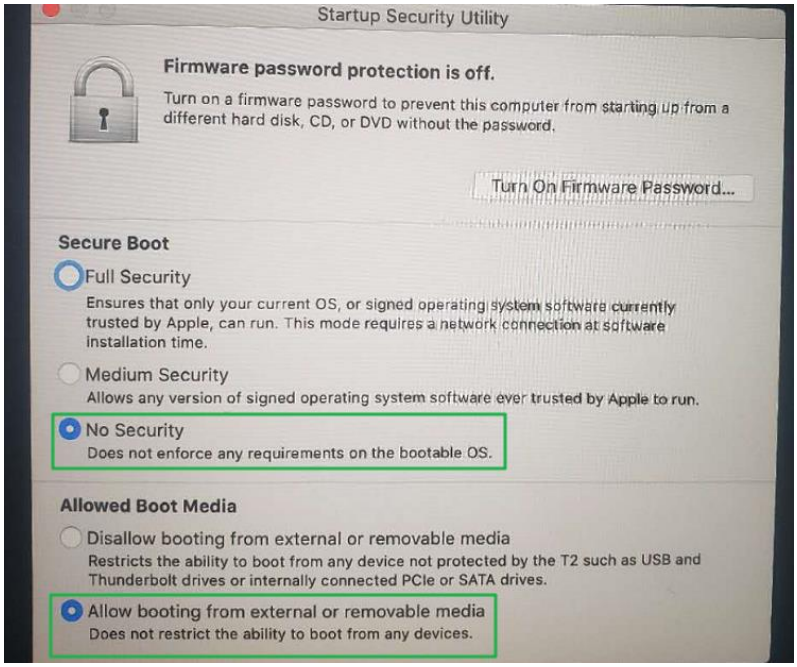
Overview

The following guide is intended for users who wish to set up a Single NVME SSD Boot Drive using the SSD7101A-1 NVMe RAID controller with macOS. This guide outlines two procedures – One procedure for Mac systems with a T2 Chip, and another procedure for Mac systems without a T2 Chip.

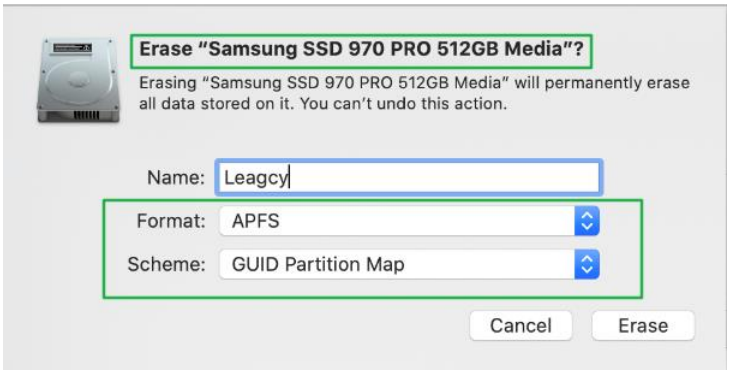
Installation Procedure (Mac systems With T2 Chips)

1) Remove all other HPT controllers, leaving only one SSD7101A-1 and one single disk.
2) If the original macOS installation contains the HighPoint NVMe Driver, please uninstall it first (Refer to the driver installation documentation).
3) Restart the Mac and hold down the 'Command + R' key combination to enter Recovery Mode. Click 'Start Security Utility':

4) Select 'No Security' and 'Allow booting from external or removable media' and then restart the Mac

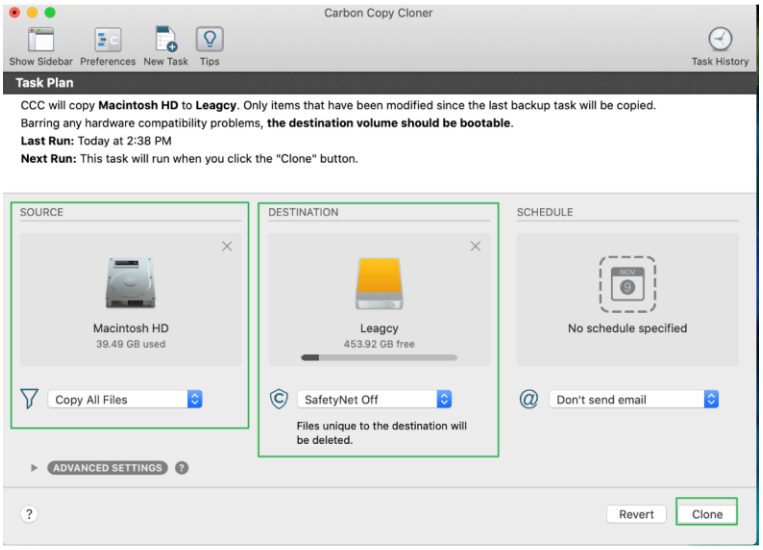


5) Open Disk Utility. Format the single disk partition: Format: APFS Scheme: GUID Partition (for this example, the single NVMe SSD was named “Legacy”):

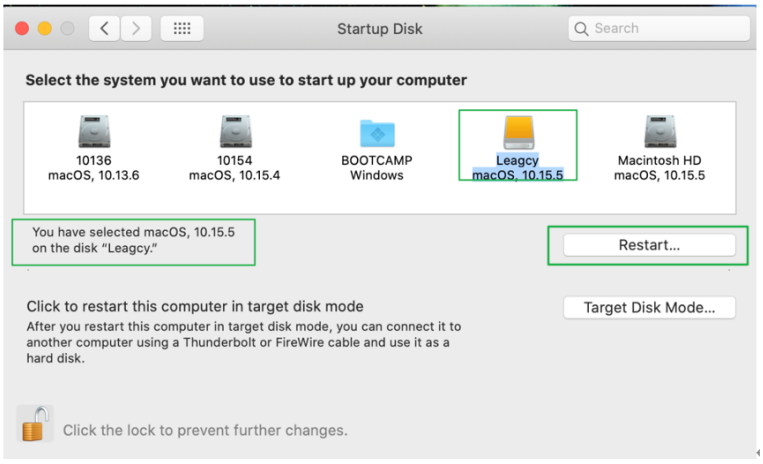


6) Download ‘Carbon Copy Cloner 5’ (https://bombich.com/software/download_ccc.php?v=latest)

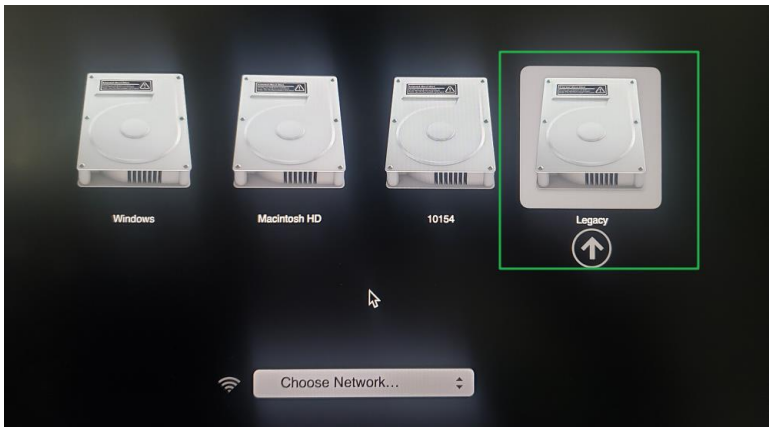
7) Open ‘Carbon Copy Cloner 5’ For ‘SOURCE’, select the system disk. For ‘DESTINATION’, select the NVMe SSD, and click ‘Clone’:



8) After the Clone procedure has completed, select ‘Legacy’ as the default system startup disk in **Startup Disk** and click **Restart**:



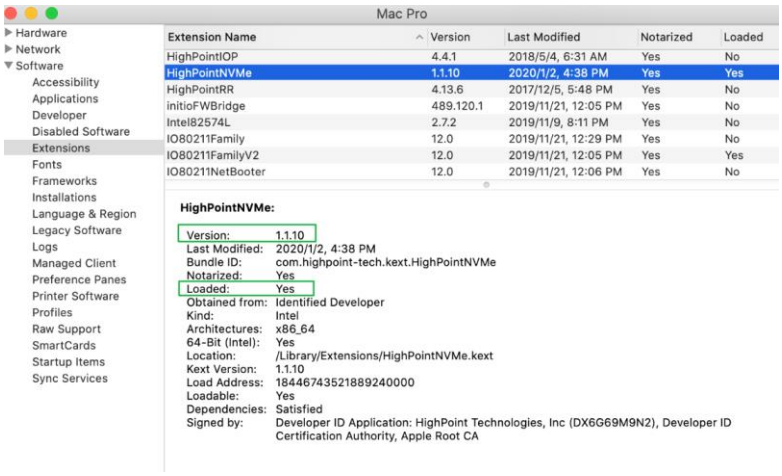
9) Restart the Mac and hold down the '**option**' key to enter the **Startup Manager** window. Select the startup disk to boot the system ("Legacy", shown below):



10) After booting the system, make sure the correct boot disk was used:

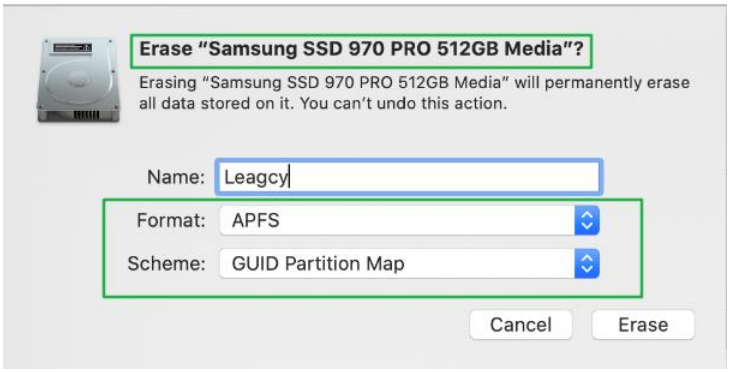
11) Install the HighPoint NVMe driver and the WebGUI (Refer to the driver installation documentation).

12) You can now shutdown the system and reinstall the other NVMe devices/controllers. Power on the system and boot macOS using the NVMe SSD ('Legacy'). Make sure the HighPoint NVMe driver is loading:



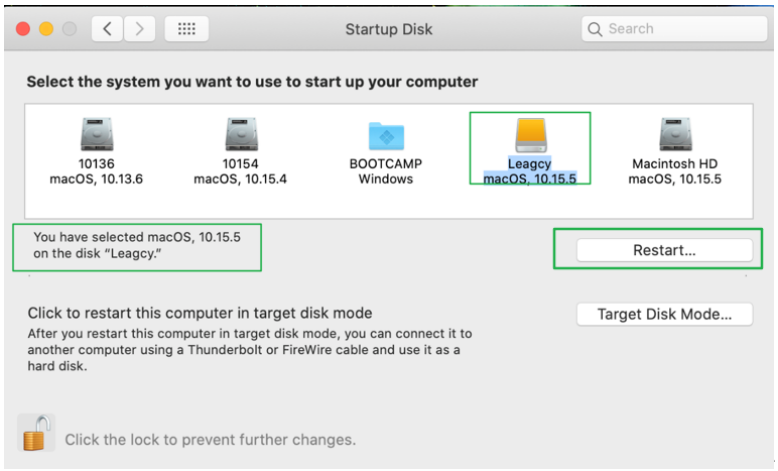
Installation Procedure (Mac systems Without T2 Chips)

1) Remove all other HPT controllers, leaving only one SSD7101A-1 and one single disk.
2) If the original macOS installation contains the HighPoint NVMe Driver, please uninstall it first (Refer to the driver installation documentation).
3) Open Disk Utility. Format the single disk partition: Format: APFS Scheme: GUID Partition (for this example, the single NVMe SSD was named “Legacy”):



4) Download ‘Carbon Copy Cloner 5’ (https://bombich.com/software/download_ccc.php?v=latest)
5) Open ‘Carbon Copy Cloner 5’ For ‘SOURCE’, select the system disk. For ‘DESTINATION’, select the NVMe SSD, and click ‘Clone’:

6) After the Clone procedure has completed, select ‘Legacy’ as the default system startup disk in **Startup Disk** and click **Restart**:



7) Restart the Mac and hold down the ‘**option**’ key to enter the **Startup Manager** window. Select the startup disk to boot the system (“Legacy”, shown below):

8) After booting the system, make sure the correct boot disk was used:

9) Install the HighPoint NVMe driver and the WebGUI (Refer to the driver installation documentation).

10) You can now shutdown the system and reinstall the other NVMe devices/controllers. Power on the system and boot macOS using the NVMe SSD (‘Legacy’). Make sure the HighPoint NVMe driver is loading: