# SSD7101A-1-使用macOS配置单个可引导NVMe SSD

## 目录

| SSE | 07101A-1 单引导驱动器设置   | . 1 |
|-----|---------------------|-----|
| 根   | 既述                  | .2  |
| 芗   | 安装过程 (带有T2芯片的Mac系统) | 2   |
| 芗   | z装过程 (不带T2芯片的Mac系统) | 5   |

#### 概述

以下指南适用于希望使用带macOS的SSD7101A-1 NVMe阵列卡设置单个NVMe SSD引导驱动器的用户。本指南概述了两个过程——一个用于带有T2芯片的Mac系统,另一个用于不带T2芯片的Mac系统。

### 安装过程(带有T2芯片的Mac系统)

- 1) 移除所有其他HPT控制器,只留下一个SSD7101A-1和一个磁盘。
- 2) 如果原始的macOS安装包含HighPoint NVMe驱动程序,请先卸载(请参阅驱动程序安装文档)。
- 3) 重启Mac,按住"命令+R"键进入恢复模式。点击"启动安全实用工具":



4) 选择"无安全"和"允许从外部或可移动媒体启动", 然后重新启动Mac

| o no tri                             | Startup Security Utili  | ty  |
|--------------------------------------|---|---|
| 0                                    | Firmware password protection is off.  | computer from starting up from a  |
| I                                    | different hard disk, CD, or DVD without the p   | assword.  |
|                                      | Ľ.,   | Turn On Firmware Password   |
| Secure Bo                            | ot  | A CONTRACTOR OF |
| OFull Sec                            | urity   |   |
| Ensures<br>trusted b<br>installation | that only your current OS, or signed operating<br>by Apple, can run. This mode requires a network<br>on time. | systemi software currently<br>connection at software  |
| Medium<br>Allows ar                  | Security<br>ny version of signed operating system software  | ever trusted by Apple to run.   |
| O No Secu<br>Does not                | urity<br>enforce any requirements on the bootable OS.   | ]   |
| Allowed B                            | oot Media   |   |
| Disallov                             | booting from external or removable med  | lia   |
| Restricts<br>Thunder                 | the ability to boot from any device not protecte<br>bolt drives or internally connected PCIe or SATA          | ed by the T2 such as USB and drives.  |
| O Allow be<br>Does not               | ooting from external or removable media<br>t restrict the ability to boot from any devices.                   |   |

5) 打开磁盘实用程序。格式化单个磁盘分区:格式: APFS方案: GUID分区(在本例中,单个 NVMe SSD被命名为"Legacy"):

| Erasing "S<br>all data st | rasing "Samsung SSD 970 PRO 512GB Media" will<br>Il data stored on it. You can't undo this action. |   |  |  |
|---------------------------|--|---|--|--|
| Name:                     | Leagcy   |   |  |  |
| Format:                   | APFS   | 0 |  |  |
|                           |  |   |  |  |

- 6) 下载 'Carbon Copy Cloner 5' (<u>https://bombich.com/software/download\_ccc.php?v=latest</u>)
- 7) 打开"源"的"Carbon Copy Cloner 5",选择系统磁盘。对于"目标",选择NVMe SSD,然后单击 Clone:



8) 在复制过程完成后,在"启动盘"中选择"遗留程序"作为默认的系统启动盘,然后单击"重新启动":

| -   | -  |  |  |
|---|--|--|--|
| 10136<br>macOS, 10.13.6   | 10154<br>macOS, 10.15.4  | BOOTCAMP<br>Windows  | Leagcy<br>AcOS, 10.15.5 Macintosh HD<br>macOS, 10.15.5 |
| ou have selected main<br>the disk "Leagcy."   | cOS, 10.15.5   |  | Restart  |
| ck to restart this of<br>er you restart this co<br>other computer using<br>rd disk. | computer in target dis<br>omputer in target disk m<br>g a Thunderbolt or FireW | sk mode<br>ode, you can connect it to<br>ire cable and use it as a | Target Disk Mode                                       |

9) 重新启动Mac并按住"option"键以进入"Startup Manager"窗口。选择启动盘以启动系统("Legacy", 如下所示):



10) 启动系统后,请确保使用了正确的引导磁盘:

| Overview Displays St | PCI Cards Memory Support Service  |
|----------------------|---|
|                      | Version 10.15.5 (19F96)<br>Mac Pro (2019)<br>Processor 3.5 GHz 8-Core Intel Xeon W<br>Memory 32 GB 2666 MHz DDR4<br>Startup Disk Leagcy |
|                      | Graphics AMD Radeon Pro 580X 8 GB<br>Serial Number C02ZV0ZWK7GF   |
|                      | System Report Software Update   |
| ™ and © 1983-2020 Ap | ple inc. All Rights Reserved. License and Warranty  |

- 11) 安装HighPoint NVMe驱动程序和 WebGUI 请参阅驱动程序安装文档)。
- 12) 现在,您可以关闭系统并重新安装其他NVMe设备/控制器。打开系统电源,并使用NVMe SSD ("Legacy") 引导macOS。确保HighPoint NVMe驱动程序正在加载:

| • • •   |   | Mac Pro   |  |  |               |        |
|---|---|---|--|--|---------------|--------|
| ► Hardware  | Extension Name  | ^   | Version                                    | Last Modified  | Notarized     | Loaded |
| Network   | HighPointIOP  |   | 4.4.1                                      | 2018/5/4, 6:31 AM  | Yes           | No     |
| Software  | HighPointNVMe   |   | 1.1.10                                     | 2020/1/2, 4:38 PM  | Yes           | Yes    |
| Accessibility<br>Applications   | HighPointRR   |   | 4.13.6                                     | 2017/12/5, 5:48 PM<br>2019/11/21 12:05 PM                            | Yes           | No     |
| Developer<br>Disabled Software  | Intel82574L   |   | 2.7.2                                      | 2019/11/9, 8:11 PM   | Yes           | No     |
| Extensions<br>Fonts   | IO80211Family<br>IO80211FamilyV2<br>IO80211NetBooter  |   | 12.0<br>12.0                               | 2019/11/21, 12:29 PM<br>2019/11/21, 12:05 PM<br>2019/11/21, 12:06 PM | Yes           | Yes    |
| Language & Region<br>Legacy Software<br>Logs<br>Managed Client<br>Preference Panes<br>Printer Software<br>Profiles<br>Raw Support<br>SmartCards<br>Startup Items<br>Sync Services | Version:<br>Last Modified:<br>Bundle ID:<br>Notarized:<br>Loaded:<br>Obtained from:<br>Kind:<br>Architectures:<br>64-Bit (Intel):<br>Location:<br>Load Adfression:<br>Load Adfression:<br>Load Adfression:<br>Dependencies:<br>Signed by: | 1.110<br>2020/1/2, 4:38 PM<br>com. highpoint-tech.kext.Hig<br>Yes<br>Identified Developer<br>Intel<br>x86,64<br>Yes<br>/Library/Extensions/HighPoi<br>1.10<br>18446743521889240000<br>Yes<br>Satisfied<br>Developer ID Application: H | ghPointNVMe<br>ntNVMe.kext<br>ghPoint Tech | a<br>hnologies, Inc (DX6G69M   | 9N2), Develop | er ID  |

## 安装过程(不带T2芯片的Mac系统)

- 1) 移除所有其他HPT控制器,只留下一个SSD7101A-1和一个磁盘。
- 2) 如果原始的macOS安装包含HighPoint NVMe驱动程序,请先卸载(请参阅驱动程序安装文档)。
- 3) 打开磁盘实用程序。格式化单个磁盘分区:格式: APFS方案: GUID分区(在本例中,单个 NVMe SSD被命名为"Legacy"):

| Erasing "S<br>all data st | Samsung SSD 970 PRO 512GB Media" v<br>ored on it. You can't undo this action. | d on it. You can't undo this action. |  |  |  |
|---------------------------|---|--------------------------------------|--|--|--|
| Name:                     | Leagcy  |                                      |  |  |  |
| Format:                   | APFS  | \$                                   |  |  |  |
|                           |   |                                      |  |  |  |

- 4) 下载 'Carbon Copy Cloner 5' ( <u>https://bombich.com/software/download\_ccc.php?v=latest</u>)
- 5) 打开"源"的"Carbon Copy Cloner 5",选择系统磁盘。对于"目标",选择NVMe SSD,然后单击"复制" "Clone":

| •••   | Carbon Copy Cloner  |  |
|---|---|--|
| now Sidebar Preferences New Task Tips   |   | Task History                           |
| fask Plan   |   |  |
| CCC will copy <b>10152 - Data</b> to Legacy.<br>Barring any hardware compatibility prob<br>Last Run: Today at 10:40 AM<br>Next Run: This task will run when you c | Only items that have been modified since the las<br>plems, the destination volume should be boota<br>lick the "Clone" button. | st backup task will be copied.<br>ble. |
| SOURCE  | DESTINATION   | SCHEDULE                               |
| 10152 - Data<br>34.79 GB used   | Legacy<br>483.02 GB free  | No schedule specified                  |
| Copy All Files  | SafetyNet Off   | Oon't send email                       |
| ADVANCED SETTINGS   |   | -                                      |
| ?   |   | Clone                                  |

6) 复制过程完成后,在启动盘中选择"Legacy"作为默认系统启动盘,然后单击重新启动:



7) 重新启动Mac并按住"option"键以进入"Startup Manager"窗口。选择启动盘以启动系统("Legacy", 如下所示):

| *            |                    | •     |        |  |
|--------------|--------------------|-------|--------|--|
|              |                    |       |        |  |
| 10152 - Data | 10145_Don't_Update | 10136 | Legacy |  |
|              | \$                 |       |        |  |
|              | Choose Network     |       |        |  |

8) 启动系统后,请确保使用了正确的引导磁盘:

|  | Version 10.15.5 (19F96)<br>Mac Pro (2019)<br>Processor 3.5 GHz 8-Core Intel Xeon W<br>Memory 32 GB 2666 MHz DDR4<br>Startup Disk Leagcy<br>Graphics AMD Radeon Pro 580X 8 GB<br>Serial Number C02ZV0ZWK7GF |
|--|--|
|--|--|

9) 安装HighPoingt NVMe驱动程序和WebGUI(请参阅驱动程序安装文档)。

10) 现在,您可以关闭系统并重新安装其他NVMe设备/控制器。打开系统电源,并使用NVMe SSD("Legacy")引导macOS。确保HighPoint NVMe驱动程序正在加载:

| 0 0 0   |  | Mac P  | ro   |                                   |               |        |
|---|--|--|--|-----------------------------------|---------------|--------|
| Hardware  | Extension Name   |  | ~ Version  | Last Modified                     | Notarized     | Loaded |
| Network   | HighPointIOP   |  | 4.4.1  | 2018/5/4, 6:31 AM                 | Yes           | No     |
| Software  | HighPointNVMe  |  | 1.1.10   | 2020/1/2, 4:38 PM                 | Yes           | Yes    |
| Accessibility   | HighPointRR  |  | 4,13.6   | 2017/12/5, 5:48 PM                | Yes           | No     |
| Applications  | initioFWBridge   |  | 489.120.1  | 2019/11/21, 12:05 PM              | Yes           | No     |
| Developer   | Intel82574L  |  | 2.7.2  | 2019/11/9, 8:11 PM                | Yes           | No     |
| Disabled Software   | IO80211Family  |  | 12.0   | 2019/11/21, 12:29 PM              | Yes           | No     |
| Extensions  | IO80211FamilyV2  |  | 12.0   | 2019/11/21, 12:05 PM              | Yes           | Yes    |
| Fonts   | IO80211NetBooter   |  | 12.0   | 2019/11/21, 12:06 PM              | Yes           | No     |
| Installations<br>Language & Region<br>Legacy Software<br>Logs<br>Managed Client<br>Preference Panes<br>Printer Software<br>Profiles<br>Raw Support<br>Raw Support<br>Startup Items<br>Sync Services | HighPointNVMe<br>Version:<br>Last Modified:<br>Bundle ID:<br>Notarized:<br>Obtained from:<br>Kind:<br>Architectures:<br>64-Bit (Intel):<br>Location:<br>Kext Version:<br>Load Address:<br>Loadable:<br>Dependencies:<br>Signed by: | E<br>1.1.0<br>2020/1/2, 4:38 PM<br>com.highpoint-tech.kext.l<br>Yes<br>Identified Developer<br>Intel<br>x86,64<br>Yes<br>/Library/Extensions/HighP<br>1.1.10<br>18446743521889240000<br>Yes<br>Satisfied<br>Developer ID Application:<br>Certification Authority, Ap | HighPointNVM<br>IointNVMe.kext<br>HighPoint Tec<br>ple Root CA | e<br>t<br>hnologies, Inc (DX6G69M | 9N2), Develop | er ID  |