

## 自动刷写 BIOS 脚本使用指引

### Automatically flash BIOS script usage guidelines

为便于终端用户或加工厂，批量在线更新 BIOS 软件，特制作自动更新脚本文件。

In order to facilitate the batch update of "BIOS" software by end users or processing plants, an automatic update script file has been specially prepared.

#### 注意事项：

##### Tips:

1. 刷写 BIOS 失败会导致笔记本无法开机，故刷写 BIOS 前，请关闭其他正在运行的程序，连接电源适配器，刷写过程切勿做按电源键强制关机、重启或合盖睡眠等影响 BIOS 刷新操作。

**Failure to write BIOS will cause the notebook to fail to start. So before updating BIOS, please close other running programs, ensure that the battery power is greater than 30% or connect the power adapter. Do not press the power key to forcibly shut down, restart or close the cover to sleep during the writing process, which will affect the BIOS refreshing operation.**

2. 错刷不匹配机型的 BIOS 后会导致主板不开机问题，刷写 BIOS 前务必核对好 BIOS 的机型、版本信息。

**Flashing the 'BIOS' of the unmatched model will cause the motherboard to fail to boot, so you must check the model and version information of 'BIOS' before flashing 'BIOS'.**

3. 确认整机中未写入 DMI 信息及 Windows OA3 Key 码，通用刷新方式会清除 DMI 及 OA3 Key。

**Ensure that the DMI information and Windows OA3 Key code are not written into the system. The common refresh mode will delete the DMI and Windows OA3 Key code.**

#### 使用说明：

1. 准备 1 个可格式化的 U 盘。

Prepare a USB flash drive that can be formatted.

2. 格式化 U 盘为 FAT 或 FAT32 格式。

Format the USB flash disk in FAT or FAT32 format.



3. 将自动更新脚本解压到前步制作好的 U 盘根目录。（勿创建多余文件夹，Startup.nsh 及 EFI 文件夹在 U 盘根目录。）

Unzip the automatic update script to the root directory of the U disk prepared in the previous step. (Do not create extra folders. The Startup.nsh and EFI folders are in the root directory of the USB flash drive.)

名称	大小	压缩后大小	类型	修改时间
..			本地磁盘	
efi			文件夹	2024/2/3 11:16
Q356C-N141G-CT-WiseBook_14A.002			文件夹	2024/1/30 10:53
PowerStatus.efi	10,944	5,330	EFI 文件	2023/11/20 9:39
Startup.nsh	2,049	696	NSH 文件	2024/2/3 15:38

4. 将 U 盘插入待更新 BIOS 的电脑的 USB 接口，并连接适配器。

Insert the USB stick into the USB interface of the computer to be updated with BIOS, and connect the adapter.

5. 按电源键开机后，连续按 F7 键，在弹出的 Boot Menu 菜单中选择 UEFI: U 盘型号。

Press the power key to start the machine, press F7 continuously, and select UEFI: USB flash disk model in the boot menu that pops up.



注：图中 U 盘型号仅供参考，以实际 U 盘型号为准。

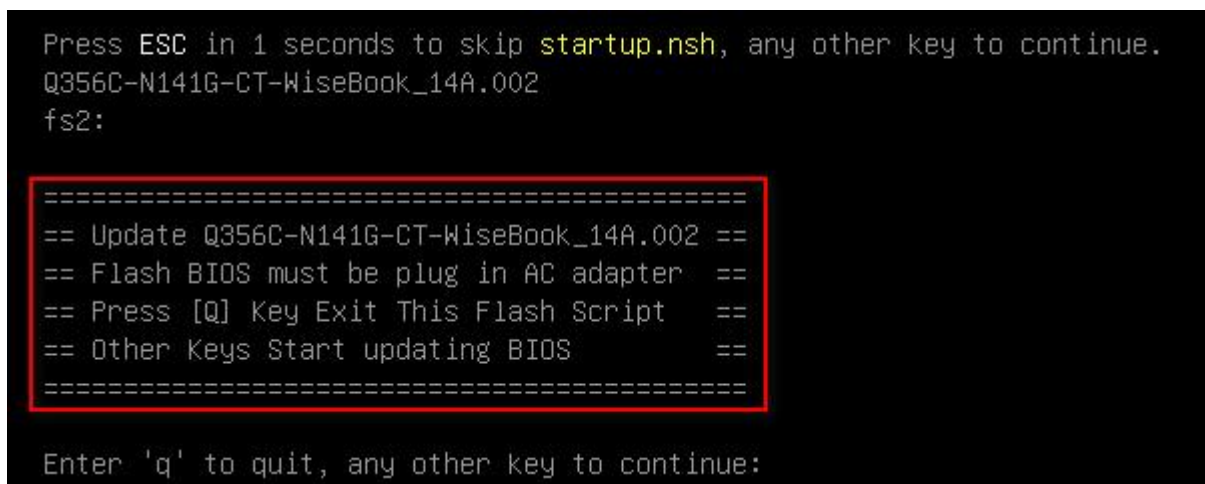
**Note: The model of USB flash disk in the figure is for reference only, and the actual model of USB flash disk shall prevail.**

6. 在下图暂停界面，注意检查机型及 BIOS 版本是否正确，确认 OK 按回车或空格键，开始更新。

In the paused interface in the figure below, pay attention to check whether the model and BIOS version are correct, confirm OK, press Enter or Space bar to start the update.

注：如需取消更新，按【q】键退出自动刷写脚本。

**Note: To cancel the update, press the [q] key to exit the automatic writing script.**



BIOS 更新提示

BIOS update tips

7. 程序自动检测适配器是否连接，检测通过开始更新 BIOS，检测失败提示如下信息。

注：检测失败时，可连接电源适配器后，等待 1 秒钟，按回车键重新检查适配器状态。

The program will automatically detect whether the power adapter is connected, and start updating the BIOS or after the test is passed.

**Note: If the test fails, you can connect the power adapter, wait for 1 second, and press the enter key to check the adapter status**

```

=====
== Update Q356C-N141G-CT-WiseBook_14A.002 ==
== Flash BIOS must be plug in AC adapter ==
== Press [Q] Key Exit This Flash Script ==
== Other Keys Start updating BIOS ==
=====

Enter 'q' to quit, any other key to continue:
Adaptor In

Power Adapter Status: 1 [ 0: Off 1: On ]
Stall for 1000000 uS
Fpt.efi -f ADL_P_Consumer_DDR4_Prod.bin
Intel (R) Flash Programming Tool Version: 16.1.25.2073
Copyright (C) 2005 - 2022, Intel Corporation. All rights reserved.

Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
ID:0xEF4019 Size: 32768KB (262144Kb)

```

again.

### 适配器检测通过开始更新 BIOS

**Note: After the adapter is detected, the BIOS can be updated**

```

=====
== Update Q356C-N141G-CT-WiseBook_14A.002 ==
== Flash BIOS must be plug in AC adapter ==
== Press [Q] Key Exit This Flash Script ==
== Other Keys Start updating BIOS ==
=====

Enter 'q' to quit, any other key to continue:
Adaptor out

Power Adapter Status: 0 [ 0: Off 1: On ]

===== Warning =====
= Flash BIOS must be plug in AC power adapter =
= Press any key to try again, [Q] Key Eixt. =
=====

Enter 'q' to quit, any other key to continue: _

```

未检测到适配器，提示以上信息，此时可插入电源适配器后，1秒后按任意键继续

**Note: If the adapter is not detected, the information in the above photo will be prompted, at this time, you can plug in the power adapter, and press any button to continue after 1 second**

8. 程序自动开始更新 BIOS，更新过程如下：

The program automatically starts to update BIOS , The update process is as follows:

```
Processing Flash memory block 673 from 8191.
- Erasing Flash Block [0x2A2000] - 100 percent complete.
- Programming Flash [0x02A2000] 40KB of 40KB - 100 percent complete.
Processing Flash memory block 685 from 8191.
- Erasing Flash Block [0x2AE000] - 100 percent complete.
- Programming Flash [0x02AE000] 40KB of 40KB - 100 percent complete.
Processing Flash memory block 762 from 8191.
- Erasing Flash Block [0x2FB000] - 100 percent complete.
- Programming Flash [0x02FB000] 4KB of 4KB - 100 percent complete.
Processing Flash memory block 765 from 8191.
- Erasing Flash Block [0x2FE000] - 100 percent complete.
- Programming Flash [0x02FE000] 8KB of 8KB - 100 percent complete.
Processing Flash memory block 771 from 8191.
- Erasing Flash Block [0x304000] - 100 percent complete.
- Programming Flash [0x0304000] 8KB of 8KB - 100 percent complete.
Processing Flash memory block 773 from 8191.
- Erasing Flash Block [0x306000] - 100 percent complete.
- Programming Flash [0x0306000] 4KB of 4KB - 100 percent complete.
Processing Flash memory block 781 from 8191.
- Erasing Flash Block [0x30E000] - 100 percent complete.
- Programming Flash [0x030E000] 16KB of 16KB - 100 percent complete.
Processing Flash memory block 788 from 8191.
- Erasing Flash Block [0x315000] - 100 percent complete.
- Programming Flash [0x0315000] 16KB of 16KB - 100 percent complete.
= Processed memory blocks 3324 from 8191.
```

BIOS 更新过程  
BIOS update process

**注意：更新的过程切勿做按电源键强制关机、重启或合盖睡眠等影响 BIOS 刷新操作。**

Note: During the update process, do not press the power button to force shutdown, restart, or close the lid to sleep, which will affect the BIOS refresh operation.

9. BIOS 更新完成无异常出现会显示如下界面，2 秒钟后自动重启。

After the BIOS update is completed, the following interface will be displayed, and it will automatically reset after 2 seconds.

```
Processing Flash memory block 8154 from 8191.
- Erasing Flash Block [0x1FDB000] - 100 percent complete.
- Programming Flash [0x1FDB000] 72KB of 72KB - 100 percent complete.
Processing Flash memory block 8156 from 8191.
- Erasing Flash Block [0x1FDD000] - 100 percent complete.
- Programming Flash [0x1FDD000] 4KB of 4KB - 100 percent complete.
- Processed memory blocks 8191 from 8191.
- Verifying Flash [0x2000000] 32772KB of 32768KB - 100 percent complete.
RESULT: The data is identical.
```

Flash device was programmed. It is recommended to perform G3 power cycle to complete the flashing process.

FPT Operation Successful.

Stall for 1000000 uS

MrdECMirror.efi

```
=====
== This computer's BIOS update is complete ==
=====
```

Stall for 2000000 uS

-

10. 重新开机，等待开机成功后连续按[DEL]键，进入 BIOS Setup 界面，检查 BIOS 及 EC 版本是否正确。

Reboot the computer, wait for the power to be successfully restarted, and then press the [DEL] button continuously to enter the BIOS Setup page and check whether the BIOS and EC versions are correct.

11. 确认 OK 后，按键盘 F3 键加回车可恢复 BIOS 出厂默认值，F4 键加驾车保存设置 BIOS 设置退出 Setup 界面并重启计算机。

After confirming OK, press the F3 key and the Enter key to restore the BIOS factory defaults, press the F4 key and the Enter key to save the BIOS settings, exit the Setup interface and restart the computer.

## Aptio Setup - AMI

Основные Расширенные Безопасность Загрузка Сохранение и выход

Информация о BIOS	
Производитель BIOS	American Megatrends
Версия ядра	5.27
Версия BIOS	UEFI 2.8; PI 1.7
Номер проекта	Q356C-N141G-CT-WiseBook_ 14A.002 x64
Системная модель	Default string
Производитель системы	F-PLUS EQUIPMENT AND DEVELOPMENTS LLC
Серийный номер	Default string
Номер артикула	Default string
Дата и время сборки	02/03/2024 10:13:39

## Информация о процессоре

Название	RaptorLake ULT
Тип	13th Gen Intel(R) Core(TM) i7-1355U
Тактовая частота процессора	1700 MHz
Идентификатор	0xB06A3
Ревизия ядра	Q0
Объем памяти	16384 MB
Частота памяти	3200 MHz

Версия сборки BIOS	01.00
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⇧⇧: Выберите экран  
↑↓: Выберите элемент  
Выбор: входа  
+/-: Изменить опцию.  
F1: Общая справка  
F2: Предыдущие значения  
F3: Оптимизированные значения  
по умолчанию  
F4: Сохранить и выйти  
ESC: Выход