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🏠 / fwupgrade

Firmware Update Tutorial

Download QMK Toolbox

Windows

- ‣ [Click to jump to download](#) ↗

MacOS
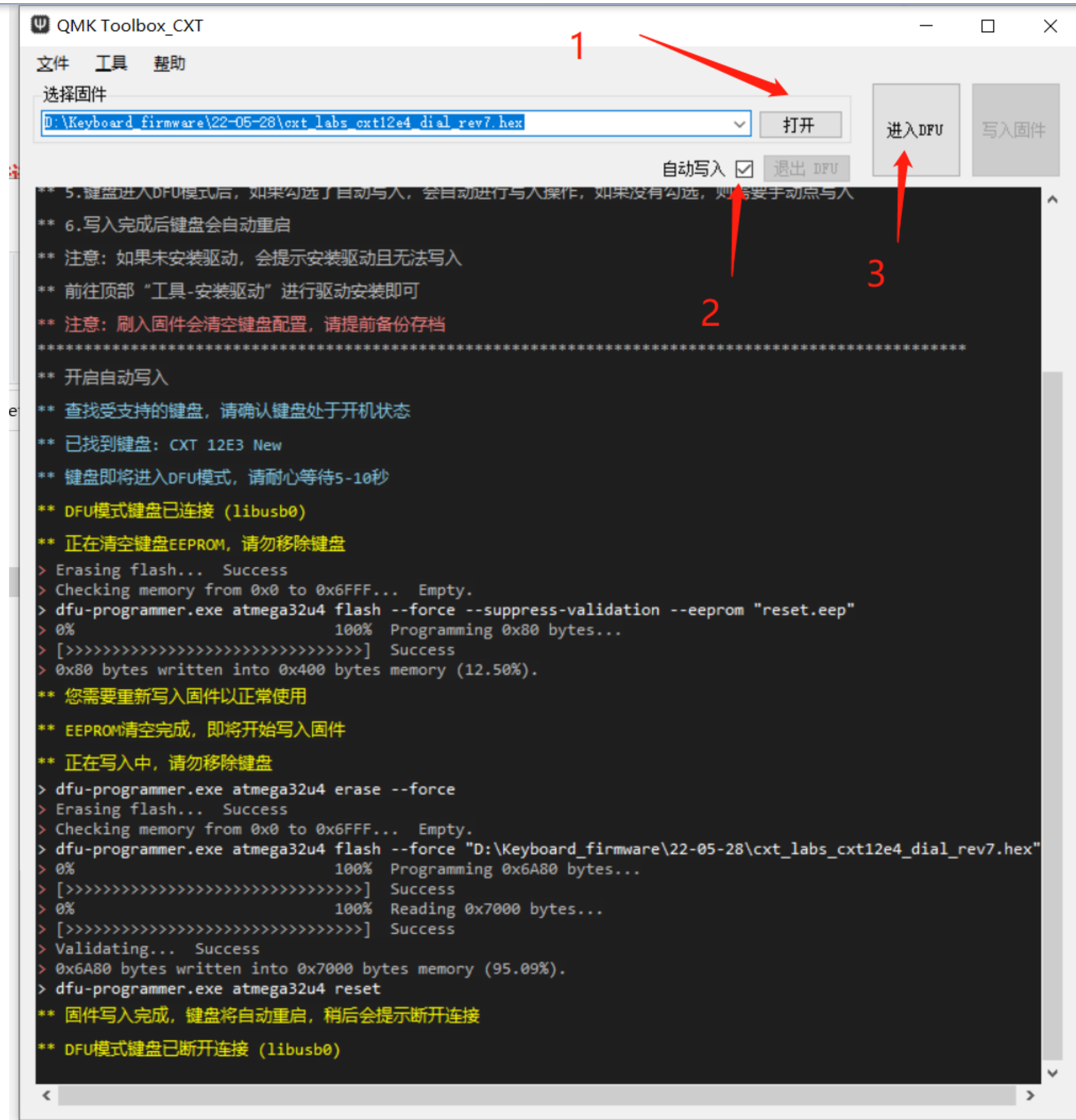
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Flashing the firmware may cause the configuration to be cleared, please backup the configuration if necessary

Windows Tutorial

If you are using an older version of QMK Toolbox, the eeprom will not be cleared automatically when writing, please click Clear eeprom manually.

Otherwise, it will appear: the first restart after writing to normal use, after re-plugging or restarting the computer, the keyboard lights up red and the VIA-C does not recognize it.

- ‣ **1. Unzip the downloaded .exe program to any directory and open it. It may take tens of seconds to 3 minutes to open it for the first time, and then there will be a prompt to install the driver. Select Yes to install the driver [If you miss this step , at the top tool - install the driver to reinstall]**

- ‣ **2. Click the "Open" button on the upper right, select the firmware file ending in .hex format>> [Firmware Download](#)**

- ‣ **3. Check the automatic write**

- ‣ **4. Connect the normal keyboard, click "Enter DFU" to make the keyboard enter DFU mode 【If your keyboard is not working properly, please refer to step 7 to enter DFU】**

- ‣ **5. After the keyboard enters the DFU mode correctly, if the third step checks the automatic writing, it will automatically write at this time**

- ‣ **6. After the writing is completed, the keyboard will automatically restart, and it will prompt "** DFU mode keyboard has been disconnected"**

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QMK Toolbox_CXT   1   — □ ✕

文件   工具   整助

选择固件

`D:\Keyboard_firmware\22-05-28\cxt_labs_cxt12e4_dial_rev7.hex` ▼   打开   进入DFU   写入固件

自动写入 ☑   退出 DFU   2   3

```
** 5.键盘进入DFU模式后，如果勾选了自动写入，会自动进行写入操作，如果没有勾选，则需要手动点写入

** 6.写入完成后键盘会自动重启

** 注意：如果未安装驱动，会提示安装驱动且无法写入

** 前往顶部"工具-安装驱动"进行驱动安装即可

** 注意：刷入固件会清空键盘配置，请提前备份存档

******************************************************************************************

** 开启自动写入

** 查找受支持的键盘，请确认键盘处于开机状态

** 已找到键盘：CXT 12E3 New

** 键盘即将进入DFU模式，请耐心等待5-10秒

** DFU模式键盘已连接 (libusb0)

** 正在清空键盘EEPROM，请勿移除键盘

> Erasing flash...  Success
> Checking memory from 0x0 to 0x6FFF...  Empty.
> dfu-programmer.exe atmega32u4 flash --force --suppress-validation --eeprom "reset.eep"
> 0%                          100%  Programming 0x80 bytes...
> [>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>]  Success
> 0x80 bytes written into 0x400 bytes memory (12.50%).

** 您需要重新写入固件以正常使用

** EEPROM清空完成，即将开始写入固件

** 正在写入中，请勿移除键盘

> dfu-programmer.exe atmega32u4 erase --force
> Erasing flash...  Success
> Checking memory from 0x0 to 0x6FFF...  Empty.
> dfu-programmer.exe atmega32u4 flash --force "D:\Keyboard_firmware\22-05-28\cxt_labs_cxt12e4_dial_rev7.hex"
> 0%                          100%  Programming 0x6A80 bytes...
> [>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>]  Success
> 0%                          100%  Reading 0x7000 bytes...
> [>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>]  Success
> Validating...  Success
> 0x6A80 bytes written into 0x7000 bytes memory (95.09%).
> dfu-programmer.exe atmega32u4 reset

** 固件写入完成，键盘将自动重启，稍后会提示断开连接

** DFU模式键盘已断开连接 (libusb0)
```

▸ **7If your keyboard is no longer working, or you cannot use Enter DFU to enter DFU, then plug in the keyboard, press the RESET key to enter Bootloader model**

Reset key position

Mac OS Tutorials

> If you open the QMK Toolbox, it prompts that the application is damaged or cannot be opened: you need to open the terminal (Terminal), enter "sudo spctl --master-disable" and press Enter, and enter the password after the password is prompted. There is no prompt during the input process. After entering, press Enter. If there is no error message, it is successful, and then you can reopen it.

▸ **1. After starting the application, click on the upper right corner to open it, and select the decompressed firmware in .hex format**

▸ **2. Connect the keyboard, press the keyboard's Reset key to enter the DFU mode [Refer to step 7 of the Windows tutorial]. If you have already installed the shell and it is inconvenient to press the button, you can connect VIA-C, enter the settings - enter the bootloader, click jump, and you can also enter the DFU mode**

▸ **4. If you enter the DFU mode correctly, the tool will prompt that the DFU mode keyboard is connected, and then click to clear the eeprom**

▸ **5. After the prompt is cleared, click to start writing**

▸ **6. After the firmware is written, it will automatically restart and disconnect the keyboard in DFU mode**