USB Drive Flash Manual (New Flash Manual)

Notes:

(Update:2023/01/28)

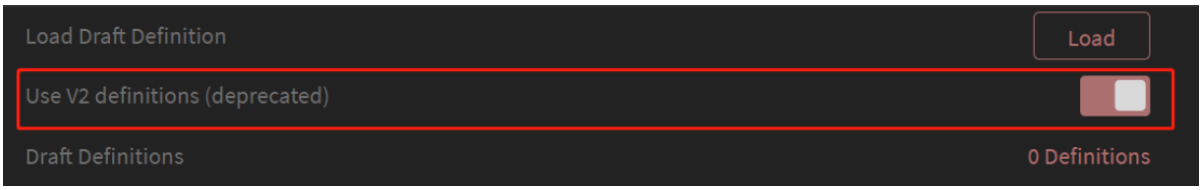
1. If you press the '**Reset**' button on the back of the PCB and the computer pops up with a USB drive, this tutorial can be applied.

2. KBDfans PCB has come **pre-flashed** with **VIA** compatible firmware already. So when you plug in the keyboard, the VIA program should detect your PCB automatically.

3. QMK toolbox (starting with version 0.1.0) is supported for the LUFA Mass storage bootloader. If Flash #1 doesn't work, please give it a try with Flash #3.

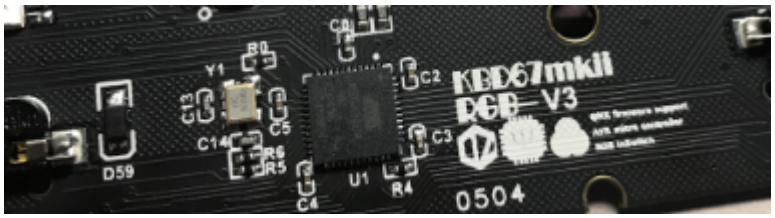
4. If VIA can't recognize your motherboard, please try to open the **USE V2 definitions** option in **Design** tab, then load the json file if needed.

https://usevia.app/#/design



Flash #1:

1- Confirm your PCB version(there is a mark on the back of the PCB), and download the firmware file from the item page or Github



2- Put your board into bootloader mode (hold down ESC then plug in USB data cable). If there is no response for all the keys (ESC key especially), we recommend you remove the keyboard case, then press the reset button, your PCB will get into DFU mode normally.

3- A new USB flash drive named "**KBDFANS**" should pop up on your computer

4- Delete the file called FLASH.BIN inside it **(MAC OS: Holding down Option+Command+Delete to delete).** Leave the EEPROM.BIN file untouched

5- Place the new **.bin** file you just download in the KBDFans disk

6- Eject the device properly (this is important! do not just unplug the board)

7- Unplug your board and plug it back in

8- Open **VIA** program, the **VIA** detects your board automatically. If not, please select the **File** button in the upper left corner, **Import Keymap .json** file you just downloaded.

After that, the PCB should now light up and work like a normal keyboard. **VIA** will detect the PCB when you open it and let you configure it.

Firmware: Only some firmwares are listed here, and there will be corresponding firmware download links on the product page.

DZ60 RGB V2 Hot-swap PCB: New dztech_dz60rgb_v2_via.bin
DZ60 RGB-ANSI Hot-swap PCB: New dztech_dz60rgb_ansi_v2_via.bin
DZ60 RGB-WKL Hot-swap PCB: new dztech_dz60rgb_wkl_v3_via.bin
DZ64 RGB Hot-swap PCB: dztech_dz64rgb_v1_via.bin
DZ65 RGB V3 Hot-swap PCB: New dztech_dz65rgb_v3_via.bin

Download the latest **VIA Firmware**: https://github.com/moyi4681/firmware

Download **VIA Configurator**: https://caniusevia.com/
https://github.com/the-via/releases/releases

Flash #2: (This method is applicable to the firmware names ending in **.uf2**)

1- Confirm your PCB version, download the firmware from the item page

2- Put your board into bootloader mode (hold down ESC then plug in USB data cable). If there is no response for all the keys (ESC key especially), we recommend you remove the keyboard case, then press the Reset button **twice**, your PCB will get into DFU mode normally.

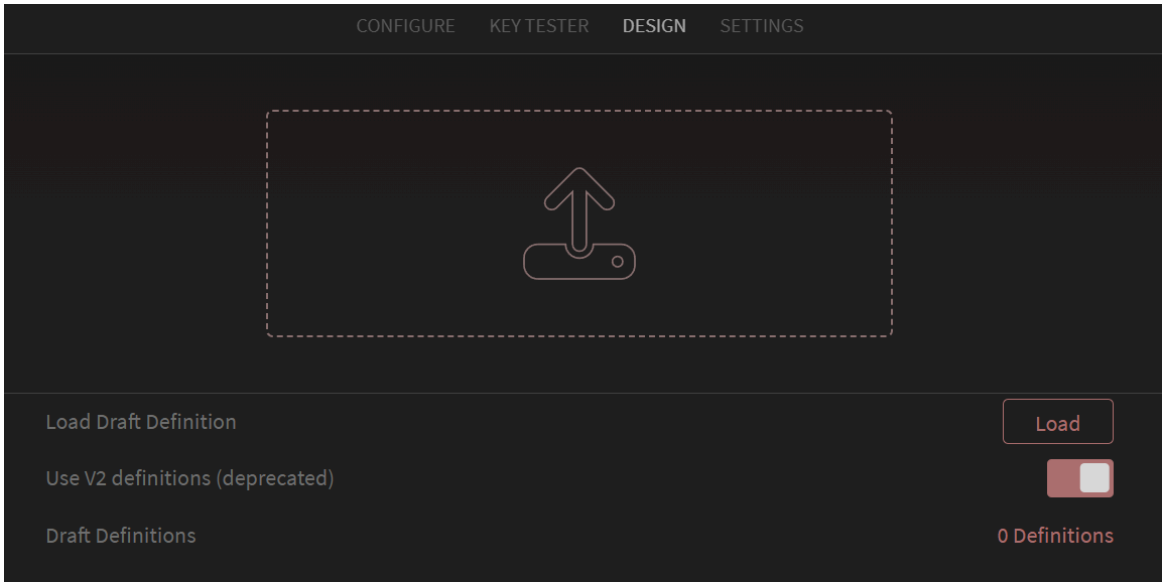
3- A new USB flash drive should pop up on your computer

4- Drag the **.uf2** you just download to the new disk drive directly

5- The flash drive will eject automatically

6- Open **VIA** on https://usevia.app/#/, and authorize your device. If it doesn't work, please load the **json** file into the **Design** tab with the **Use v2 definitions** enabled.

(**Design** tab can be enabled in **VIA Settings**, then click on **Configure** tab after loading the file)



Firmware:

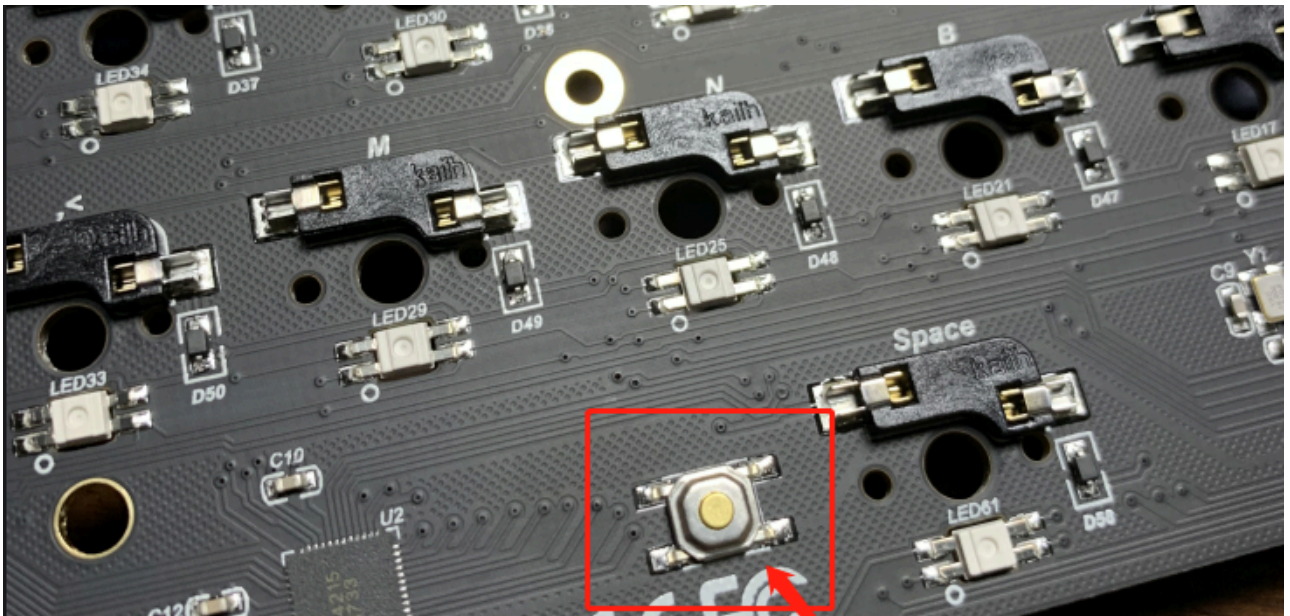
Tofu Jr: dztech_tofu_jr_v1_via.uf2 tofu_jr.json

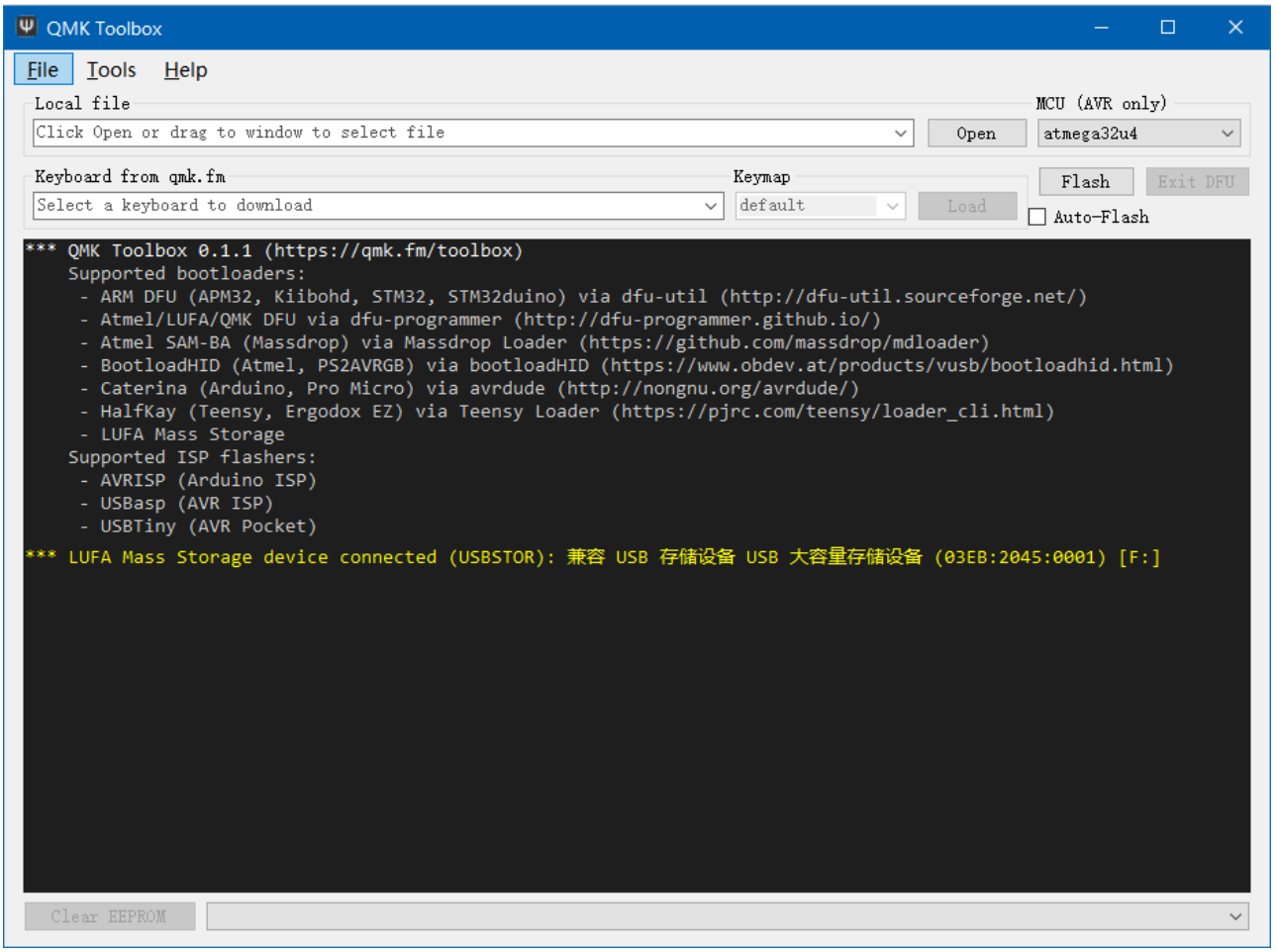
Flash #3: with QMK toolbox 0.1.1

1- Confirm your PCB version, download your PCB firmware file (.bin)

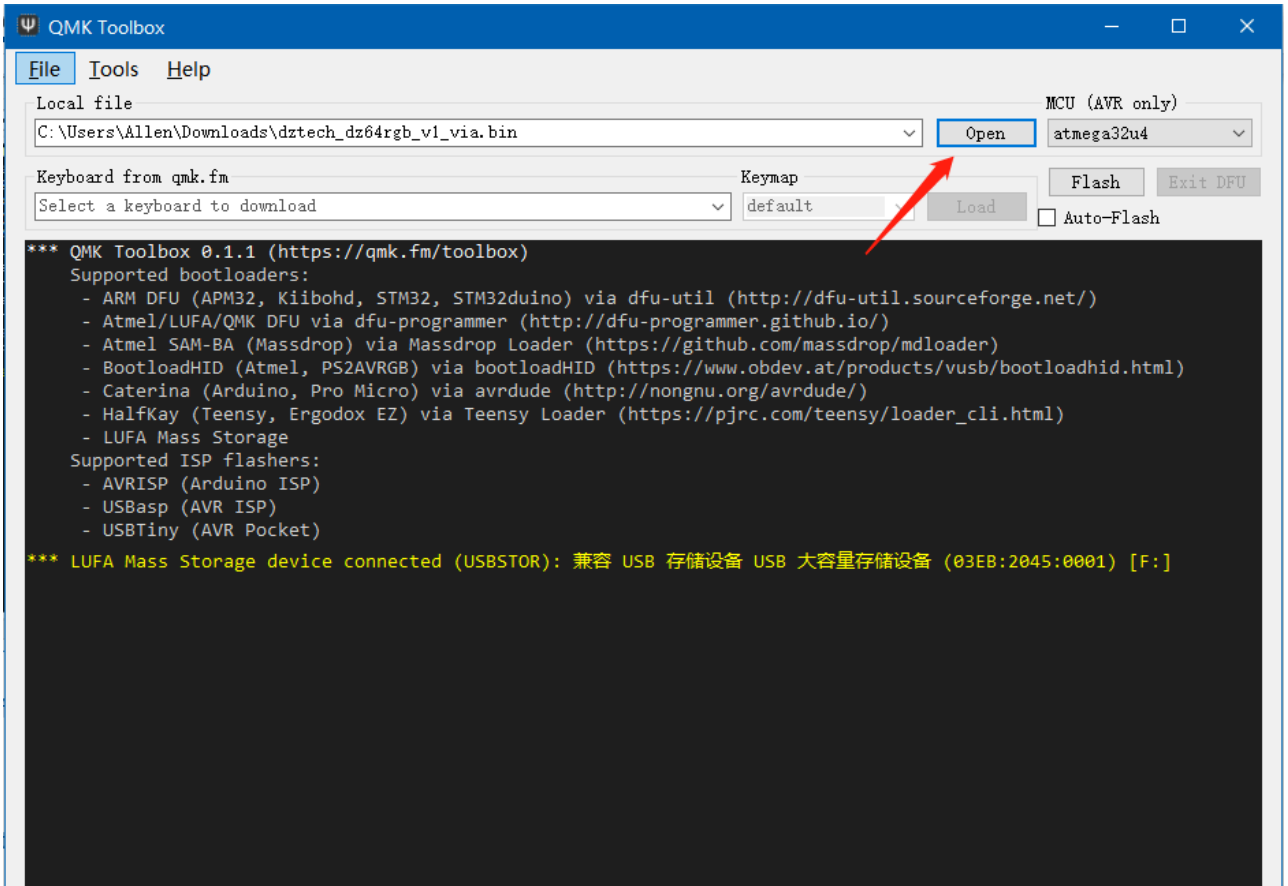
2- Open the QMK Toolbox **0.1.1 version**

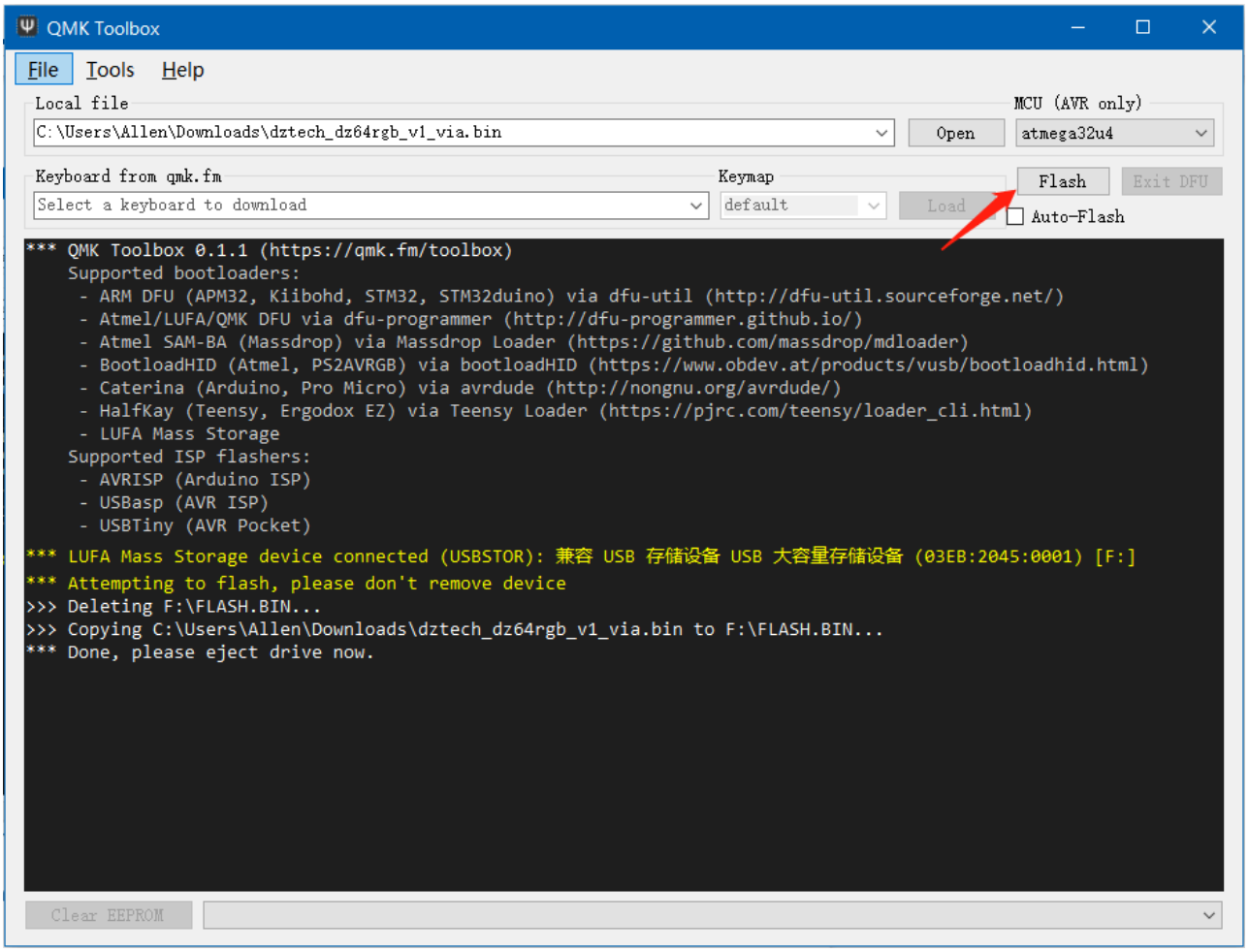
3- Put your board into bootloader mode (hold down ESC then plug in USB data cable). If there is no response for all the keys (ESC key especially), we recommend you remove the keyboard case, then press the reset button, your PCB will get into DFU mode normally.





4- Upload the bin. file you just download, then click **Flash** button





5- When the flash process done, please eject the USB drive

You could also refer to these guides, there are more details on flashing:

[KBDfans old firmware/flashing guide]

[KBDfans new firmware/flashing guide]