USB升级应用说明

USB Upgrade Application Instructions

V1.1

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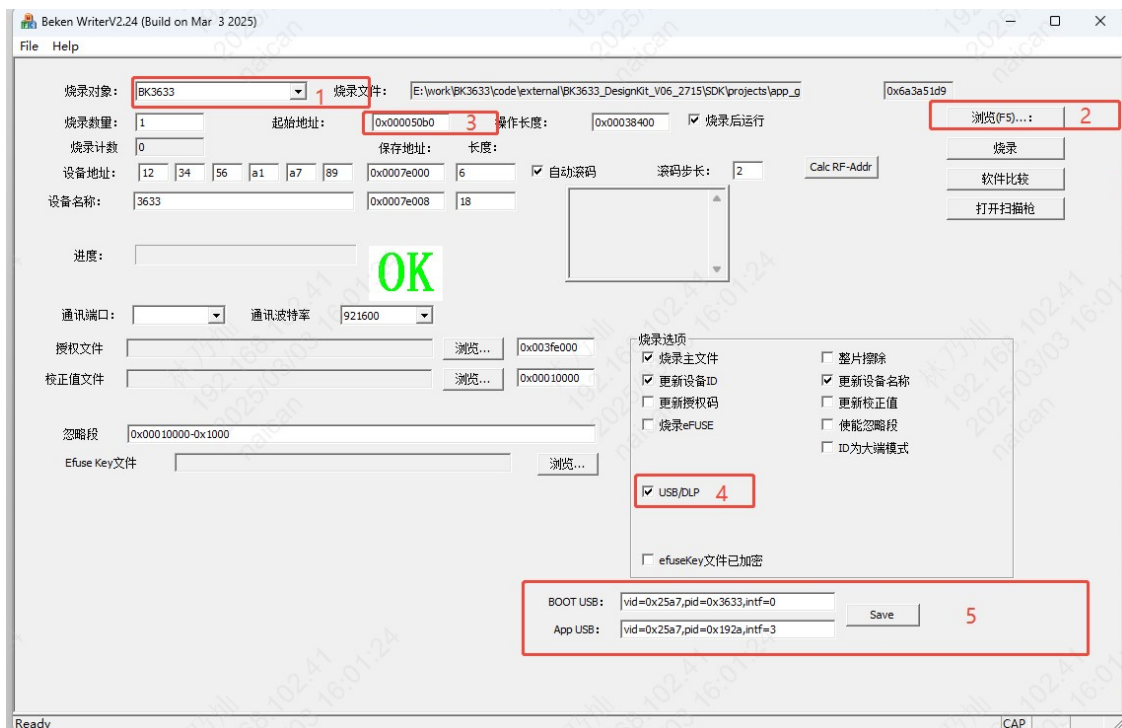www.bekencorp.com

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1. **概述** 1. Overview USB programming is only used for upgrading programs and requires that the chip has already been programmed with a program that enables USB functionality.

USB 烧录仅用于升级程序，并且需要芯片已经烧录带 USB 功能的程序。

2. **烧录工具介绍** 2. Introduction to the burning tool

① 目前工具版本号 V2.1。 The current tool version number is V2.1.

② 如图中 1 所示，烧录对象选择 BK3633。 As shown in Figure 1, select BK3633 as the target to be programmed.

③ 点击图中 2 按钮，选择需要升级的程序，一般后缀名为**_ app_stack_oad.bin。
Click button 2 in the image, select the program that needs to be upgraded, which usually has the file extension **_app_stack_oad.bin.

④ app_mouse/ app_gatt_central 工程的应用需要把烧录的起始地址改为 0x50b0，如图中 3 所示；app_2.4g 工程的应用需要把烧录的起始地址改为 0x8080.
For applications using the app_mouse/app_gatt_central project, the starting address for burning needs to be changed to 0x50b0, as shown in Figure 3; for applications using the app_2.4g project, the starting address for burning needs to be changed to 0x8080.

⑤ 勾选 USB/DLP 选项，如图中 4 位置。
Check the USB/DLP option, as shown in position 4 in the figure.

⑥ 注意图中 5 位置，BOOT USB 中要填入目标设备中 boot 所设定的 USB 的 PID，VID 和 Interface 号。APP USB 中要填入目标设备中当前 APP 所设定的 USB 的 PID，VID 和 Interface 号,填好后要点击 save 按钮保存才生效。

注意：这两处写错会导致烧录不成功。

USB 升级不要勾选整片擦除，不然在升级不成功或升级过程直接断电，可能出现无法再次进入升级

Note position 5 in the diagram. In BOOT USB, enter the PID, VID, and Interface number of the USB port configured in the target device's boot settings. In APP USB, enter the PID, VID, and Interface number of the USB port configured in the current APP settings on the target device. After entering the information, click the save button to save the changes for them to take effect.

Note: Incorrectly typing these two places will cause the burning process to fail.

Do not select "Wipe whole" for USB upgrade; otherwise, if the upgrade fails or power is cut off during the upgrade process, you may be unable to re-enter the upgrade process.

3. 烧录过程说明

①连接好目标硬件，给目标板上电，确定 USB 是正常工作的。

②打开烧录 APP，选择 BK3633，选择需要升级的 bin 文件，确定两个 VID PID 中填写无误，烧录地址无误。

③点击烧录。

④可以看到进度条在前进，直到进度条跑完，显示绿色的勾，或者进度条右边显示操作成功。

3. Programming Process Instructions

   Connect the target hardware, power on the target board, and ensure the USB is working properly.

   Open the programming app, select BK3633, select the bin file to be upgraded, and ensure the VID and PID fields are entered correctly, as well as the programming address.

   Click "Program".

   You will see the progress bar moving forward. Continue until the progress bar is complete and a green checkmark appears, or the right side of the progress bar displays "Operation Successful".