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eucWatch

EUC Watch. Dash for Electric Unicycles on NRF52xx based wearables. Supports Kingsong (All models), Inmotion (All), Ninebot (All) , Begode (Gotway, All) and Leaperkim (All)

NOTICE:

~~**Do not** use this how-to if your P8's about screen reports TON as a model number.~~

~~@fanoush made an TON5 compatible 1st step bootloader, use the file step1-TON5-xx at the first step for TON5 models.~~

TON5 is now compatible with the same 1st-step file.

Install espruino on the P8/P22 smart watch:

DO NOT use this guide on a Rock/Magic, use **this** instead.

Before installation:

You will need an android smartphone, and the <u>DaFlasher</u> app from the playstore, made by atc1441.

Using the app, you will upload four files to the P8 watch:

1. a custom app that will replace the bootloader of the p8.
2. a bootloader.
3. yet another bootloader, this time compatible with the espruino image linked bellow.
4. finally the espruino image itself.

   Files are mirrored <u>here</u>

   original links: <u>daflasher files</u> (step 1&2) <u>espruino bootloader & image</u> (step 3&4)

   Notice Do not "right click"->"save as" on github, use the download button instead, or the following links for convenience:

   Step1 file

   Step2 file
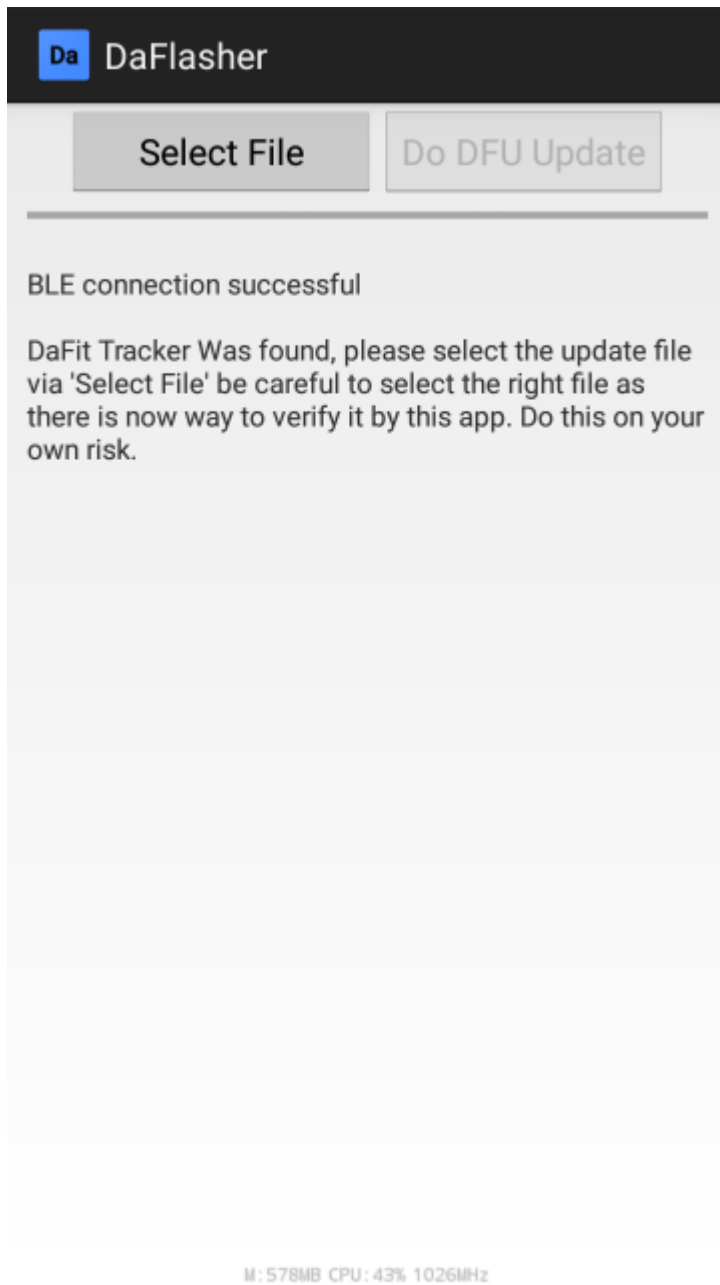
   Step3 file

   Step4 P8 file or **Step4 P22/Pinetime file**
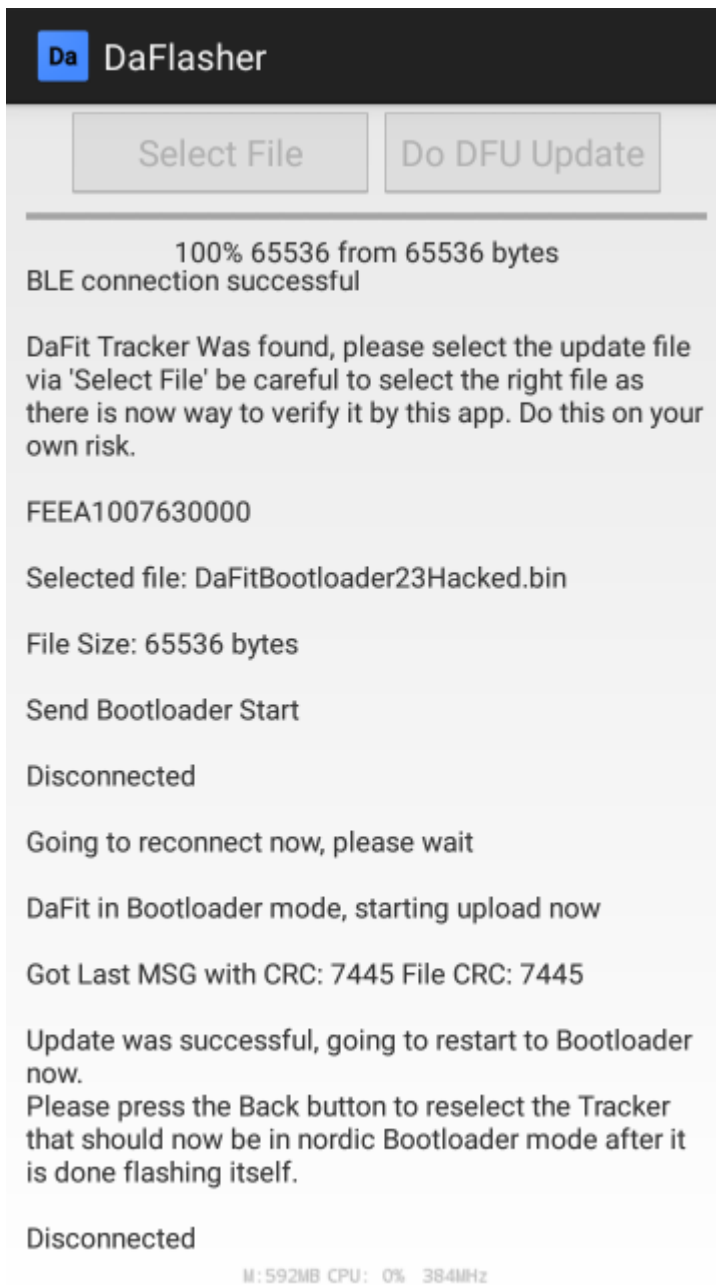
Installation:

Tip: Disconnect any accessories and stop any programs you know may be using the BT on the phone.

Open daFlasher, search for the P8 and select it. The program will report a DaFit device and offer to hack it:

Step 1.

Press **Select File** and choose the file named step1-xxx you just downloaded, the app will begin the transfer, this step will needs a couple of minutes, you should see the bar moving within seconds, if not, close(kill) the app and try again:

Da DaFlasher

Select File   Do DFU Update

100% 65536 from 65536 bytes
BLE connection successful

DaFit Tracker Was found, please select the update file
via 'Select File' be careful to select the right file as
there is now way to verify it by this app. Do this on your
own risk.

FEEA1007630000

Selected file: DaFitBootloader23Hacked.bin

File Size: 65536 bytes

Send Bootloader Start

Disconnected

Going to reconnect now, please wait

DaFit in Bootloader mode, starting upload now

Got Last MSG with CRC: 7445 File CRC: 7445

Update was successful, going to restart to Bootloader
now.
Please press the Back button to reselect the Tracker
that should now be in nordic Bootloader mode after it
is done flashing itself.

Disconnected

M:592MB CPU: 0%   384MHz

When finished the watch will reboot to a three squares screen, ready for step2.

Close DaFlasher or go back, scan again and this time look for an ATCdfu device, this is the P8 now.
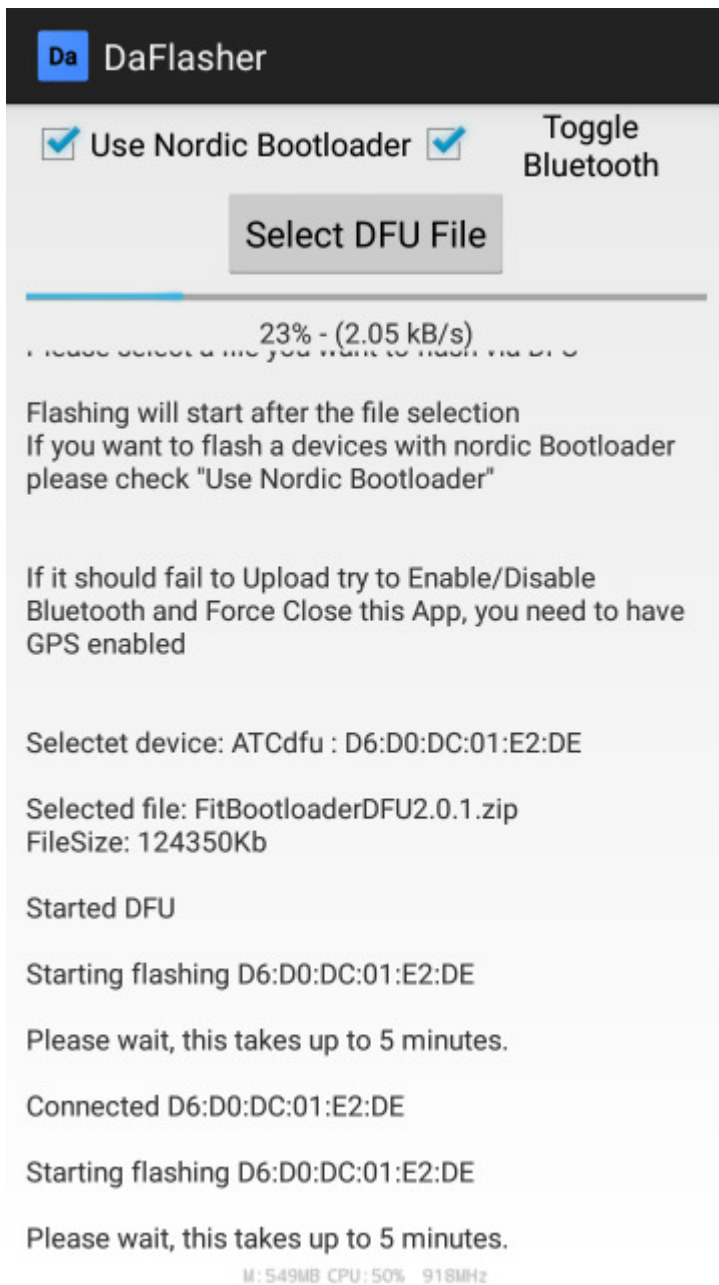
Step 2.

Select the ATCdfu device, you will be prompted to do a dfu update, do it.

Da DaFlasher

Start Bootloader | Do DFU Update

BLE Device was found in Nordic Secure Bootloader mode you can Flash it by clicking on 'Do DFU Update'

M:559MB CPU: 0% 918MHz

Select **Toggle Bluetooth** and **Use Nordic Bootloader**. Then press the **Select DFU file** button, and choose the file step2-xxx.

If this step fails, try again without the **Toggle Bluetooth** check.

Da DaFlasher

☑ Use Nordic Bootloader ☑   Toggle Bluetooth

Select DFU File

23% - (2.05 kB/s)

Please select a file you want to flash via DFU

Flashing will start after the file selection
If you want to flash a devices with nordic Bootloader
please check "Use Nordic Bootloader"

If it should fail to Upload try to Enable/Disable
Bluetooth and Force Close this App, you need to have
GPS enabled

Selectet device: ATCdfu : D6:D0:DC:01:E2:DE

Selected file: FitBootloaderDFU2.0.1.zip
FileSize: 124350Kb

Started DFU

Starting flashing D6:D0:DC:01:E2:DE

Please wait, this takes up to 5 minutes.

Connected D6:D0:DC:01:E2:DE

Starting flashing D6:D0:DC:01:E2:DE

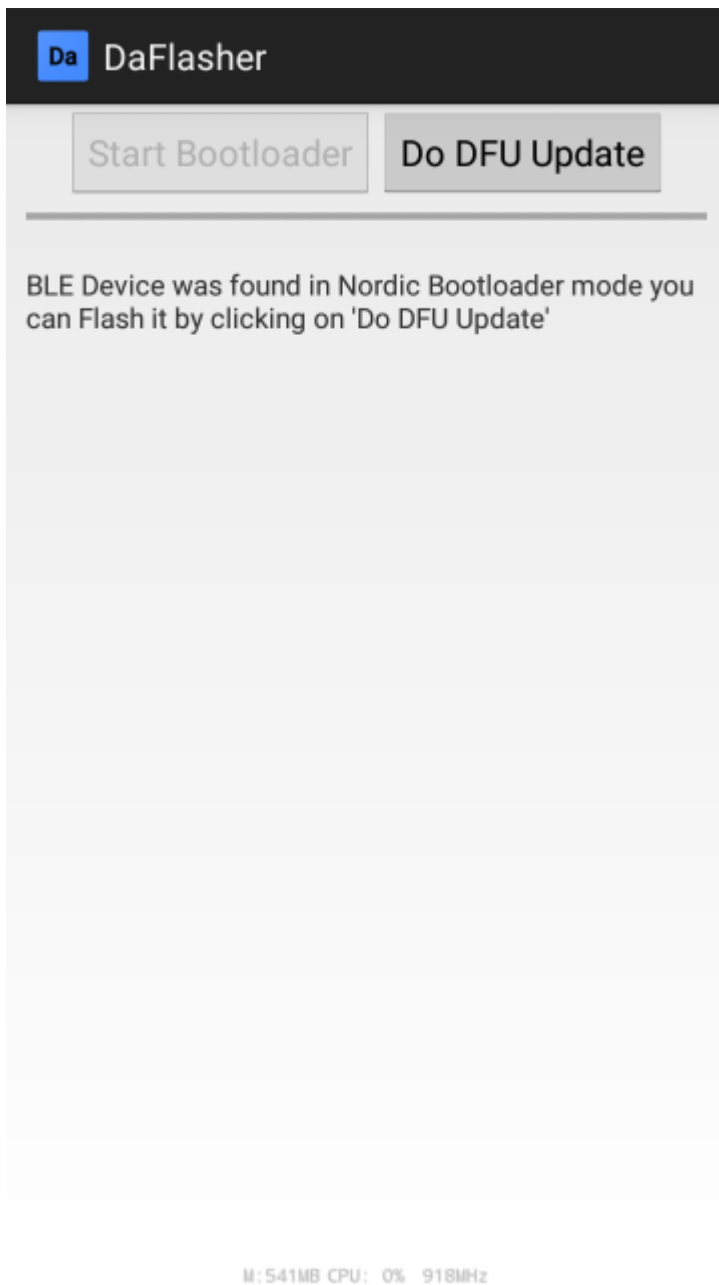Please wait, this takes up to 5 minutes.

M:549MB CPU:50% 918MHz

When finished, the watch will reboot to a one square screen, ready for step3.

Go back or kill/start daFlasher again, look fof ATCdfu device and select it.

Step 3.

As in step 2, select **Toggle Bluetooth** and **Use Nordic Bootloader**. Then press the **Select DFU file** button, and choose the file step3-xxx.

When step three ends, the watch will reboot to a blank screen, ready for the final step.

Go back or kill/start Daflasher. and this time look for a device called dfutarg, this is the p8 now.

Step 4.

Select it, select **Toggle Bluetooth** and **Use Nordic Bootloader** option, then press the **Select DFU file** button, and choose the file step4-xxx.

Note please make sure you have the correct step4 file for your watch, look for P8 or P22 in the filename.

This step will take up to 5 minutes, and when done the watch screen will remain black/off.

Post install

EucWatch Installation:

If all went ok disconnect the phone by turning off the BT radio, so that you will make sure the watch is disconnected, and go to the eucWatch loader using PC or android chromium based browser.

The loader is a web based app store service, using web Bluetooth technology it will connect to the watch, help install the scripts and keep you up to date by offring updates when available.

Using a chromium based browser, press the **connect** button (right top corner), connect to the watch (named p8xxx/p22xx etc), then on the installer tab select **Install All Apps**.

good luck :)

eucWatch maintained by enaon

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