

IQRF Firmware upgrade

Application Note

AN008



Simple way to smarter wireless solutions

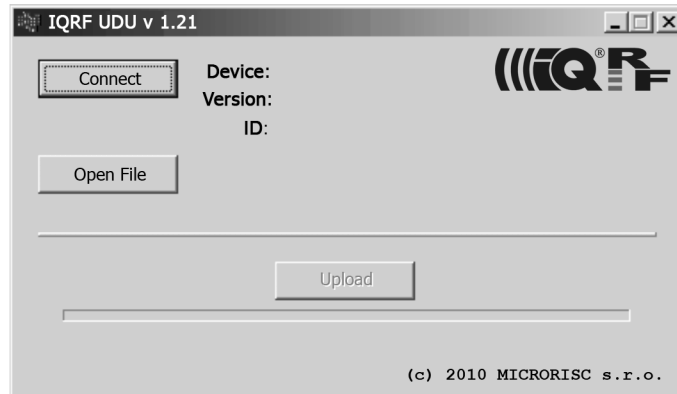
IQRF firmware upgrade

Several IQRF devices (gateways, development kits etc.) with USB connectivity allow to upgrade their own firmware. New firmware must be released by the IQRF manufacturer and can be uploaded to the device by the user themselves. For this purpose the IQRF UDU (USB Device Uploader) PC program can be downloaded from www.iqrf.org/downloads. Upgrades are available as coded files with the .CHX extensions at the IQRF website on respective product pages.

Caution: No other program communicating with any IQRF device via USB (e.g. IQRF IDE) is allowed to run during the upgrade procedure.

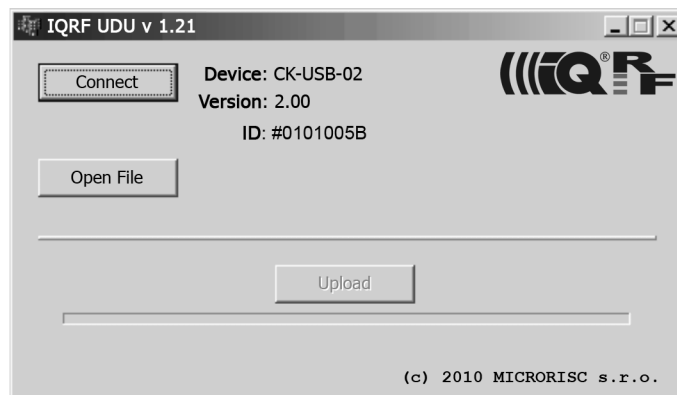
Instructions

1. Invoke the IQRF UDU program.



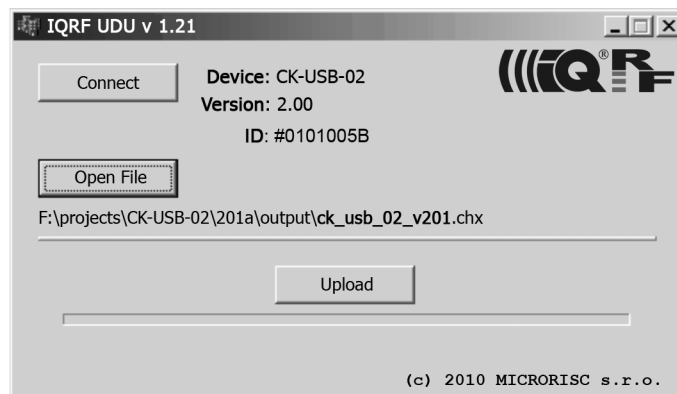
The `mpusbapi.dll` library delivered with the IQRF UDU must reside in the same directory as IQRF UDU.

2. Connect the device via USB and click the *Connect* button.
Basic information about the device (type, current firmware version and ID - serial number) is displayed.

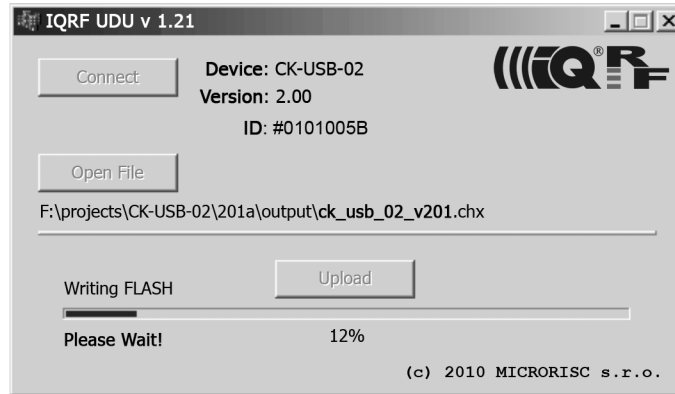


If the IQRF UDU is launched for the first time on given PC Windows are asking for USB driver here. This step is described in the AN003 Application note – IQRF Development Tools Installation Guide. Then start from point 1 once again.

3. Open requested .CHX file by the *Open File* button.

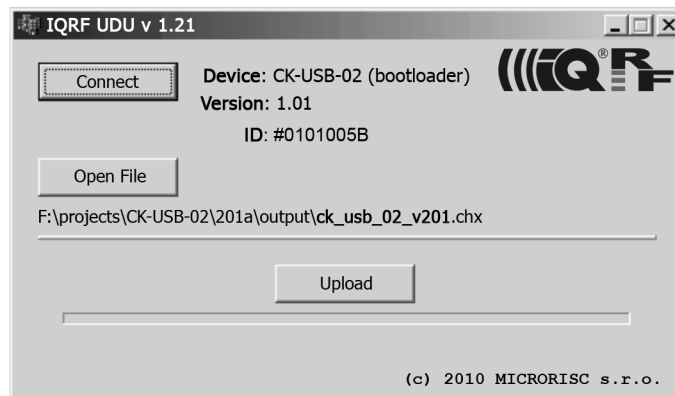


4. Start the upgrade up by the *Upload* button.



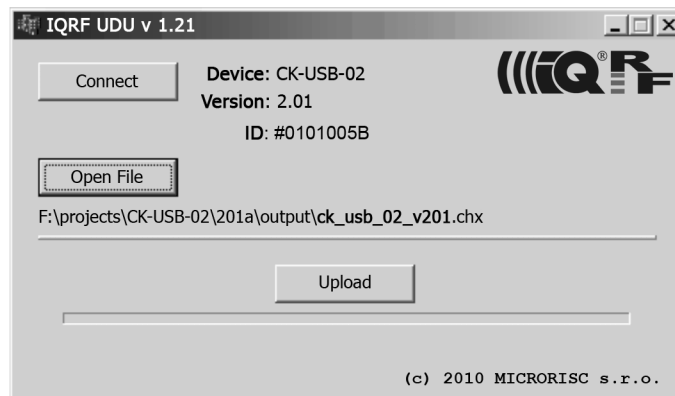
Progress and results may also be indicated by LED flashing – see User's guide for given equipment.

Upgrade procedure can take one minute or more and must not be interrupted.



If an interrupt occurs the USB device error message appears, the device must be disconnected and the upgrade procedure should be repeated. After reconnecting the information about the bootloader is displayed which means that no firmware is applied.

5. Firmware upgrade is finished successfully when information about the device is displayed with new FW version.



Document history

- 100113 First release

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Please visit www.iqrf.org/partners

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