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1. Extract en.stsw-stm32080.zip and install DfuSe_Demo_V3.0.5_Setup

Note! If there are no devices appearing in this software, you might need to manually add driver in the Device Manager (point to the installation folder of DfuSe).

2. Open DfuSeDemo program

| Available DFU Devices | Application Mode: DFU Mode: Vendor ID: Vendor ID: |
|---|---|
| | ted Upload (ST) Procuct ID: Procuct ID: Version: |
| Enter DFU mode/HID detach Leav | DFU mode |
| Actions | |
| Select Target(s): Target Id Name | Available Sectors (Double Click for more) |
| Upload Action | Upgrade or Verify Action |
| Upload Action File: Choose Upload | Upgrade or Verify Action File: Vendor ID: Targets in file: Procuct ID: |
| File: | File: Vendor ID: Targets in file: Procuct ID: |
| File: Choose Upload | File: Vendor ID: Procuct ID: Version: Verify after download |
| File: Choose Upload Transferred data size | File: Vendor ID: Procuct ID: Version: |

 Connect CAN device to PC via microUSB-USB cable (make sure 24V DC is DISCONNECTED from the device).Press RESET button prior conencting USB to PC. While the button is pressed, connect cable from the PC to device. It will set up drivers automatically. You should see then such picture. Make sure you see STM Device in DFU Mode under Available DFU Devices.

| IfuSe Demo (v3.0.5) | | | - 🗆 × |
|---|---|--|--|
| Available DFU Devices | | | |
| STM Device in DFU Mode | ~ | Application Mode: | DFU Mode: |
| Supports Upload Supports Download Can Detach | Manifestation tolerant Accelerated Upload (ST) | Vendor ID: | Vendor ID: 0483 Procuct ID: DF11 Version: 2200 |
| Enter DFU mode/HID detach | Leave DFU mode | Version. | Version. 2200 |
| Actions | | | |
| Select Target(s): Target Id 00 01 | Name Internal Flash Option Bytes | Available Sectors 64 sectors 1 sectors | s (Double Click for more) |
| Upload Action File: Choose U Transferred data size 0 KB(0 Bytes) of 0 KB(0 Bytes) Operation duration 00:00:00 | Verify afte | r download Jpgrade duration (Remo | |
| Abort | | | Quit |

4. Click **Choose**, choose firmware DFU file (8rel_v4.dfu for 8 relay module), enable check-box for **"Verify after download**". Press **UPGRADE** button.

| Supports Download Can Detach Enter DFU mode/HID detach | | Manifestation to Accelerated Up Leave DFU | lerant load (ST) Pro | plication Mode: ndor ID: cuct ID: /ersion: | DFU Mode: Vendor ID: 0483 Procuct ID: DF11 Version: 2200 | |
|--|--------------------------------|---|---|---|---|-------------|
| Actions Select Target(s): | Target Id 00 01 | Name Internal Flash Option Bytes | | Available Sectors 64 sectors 1 sectors | : (Double Clic | ck for more |
| Upload Action File: Choose. | U | File Ve | grade or Verify A :: 8rel_ :ndor ID: 0483 :cuct ID: 0000 | v4.dfu Targets in fi | | |
| Transferred data 0 KB(0 Bytes) of | | | Version: 0000 | | |) |
| | Operation duration 00:00:00 | | opumze opyra | | |) Verify |

5. After successfull upgrade you see the following screen.

| IfuSe Demo (v3 | .0.5) | | | | | _ | | \times |
|---|-------|--|----------------------------------|-----------------|--|--------------|------------|----------|
| - Available DFU Devi | ices | | | | | | | |
| STM Device in DFU Mode \sim | | | | blication Mode: | DFU Mod | | _ | |
| | | ition tolerant ed Upload (ST) Pr | | dor ID: | Vendor ID: 0483 Procuct ID: DF11 Version: 2200 | | | |
| Enter DFU mode/HID detach | | | DFU mode | | | V GI SIOI I. | 2200 | |
| Actions | | | | | | | | |
| Select Target(s): Target Id Name 00 Internal F | | Name Internal Fl | ash | | Available Sectors 64 sectors | (Double Clic | k for more | 9 |
| | 01 | Option By | .es | | 1 sectors | | | |
| Upload Action | | | Upgrade or V | | | | | |
| File: | | File: 8rel_v4.dfu | | | | | | |
| Choose Upload | | vendorite. | 0483 Targets in file: 0000 ST | | | | | |
| Transferred data size | | Version: | 0000 | | | | | |
| 61 KB(62568 Bytes) of 61 KB(62568 Bytes) | | ✓ Verify after download □ Optimize Upgrade duration (Remove some FFs) | | | | | | |
| Operation duration 00:00:07 | | Choose | Jpgra | Upgrade | | Verify | | |
| | | Targe | t 00: Verify s | ucc | essful ! | | | |
| Abort | | | | | | | Qui | t |