

DFU = Device Firmware Update

Document related to AS1620 **R04** & **R05** board & AS1635 **R02** :
For any other hardware version, please contact the helpdesk.

- Processor identification :



M3: STM32F**207**IGT6



M4: STM32F**437**IGT6

Logic board AS1620 (for barriers) :

- Software V1R0x on M3 & M4 processors
- Software >= V2R00 on M4 processor only!

AS1620 : When upgrading an **M4** processor firmware from V01 to V02 :

Here is the procedure you must execute :

1. Backup your configuration on the PC (printscreens & configuration file)
2. Disconnect AS1621 and AS1623 boards if connected
3. Erase & format memory :
 - Using the sequence on page 2, until step 12), flash the file :
PRDSTD_V0PAC_M4_SMART_FORMAT_SPI_FLASH_8888.dfu
 - Then restart the system
 - Wait 30 seconds until the 7 segments display shows "8888"
 - Power OFF
4. Upgrade the firmware M4 V2R0x using the sequence on page 2
5. Reconfigure your barrier using printscreens only (Do not use the configuration file)

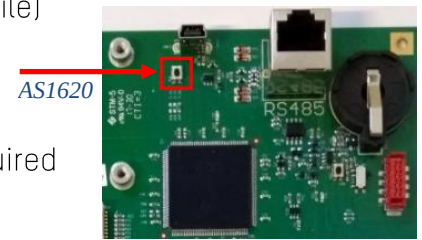
Note: **After this procedure, do not use a configuration files "asc" previously generated.**

Logic board AS1635 (for TriLane) :

- Software labeled "M4" version on M4 processor only!

Flash sequence :

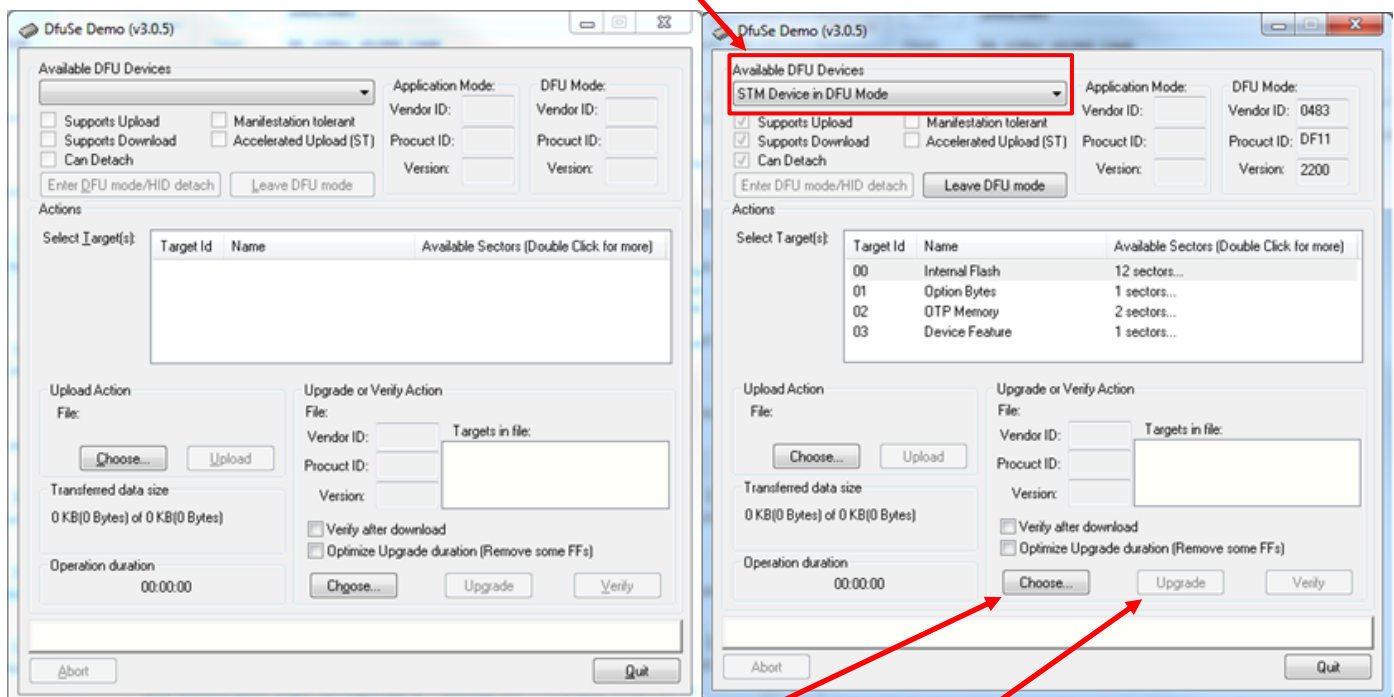
- 1) Backup your configuration on the PC (printscreens & configuration file)
- 2) Unzip AS16xx_DFU_Upgrade.zip file
- 3) Shut the power OFF on the board
- 4) Disconnect the AS1623 IO extension board in option if connected
- 5) Launch DfuSe Demo (v3.0.5) software, install DfuSE setup.exe if required
- 6) Connect the USB-mini cable
- 7) Push the button located just under the USB connector
- 8) Maintaining the button pressed, power ON the board
- 9) Release the button 2 seconds after
A driver will be installed if you are online
The board will be detected and ready as a DFU Device when a text appears under «Available DFU Devices» like the capture below



AS1620

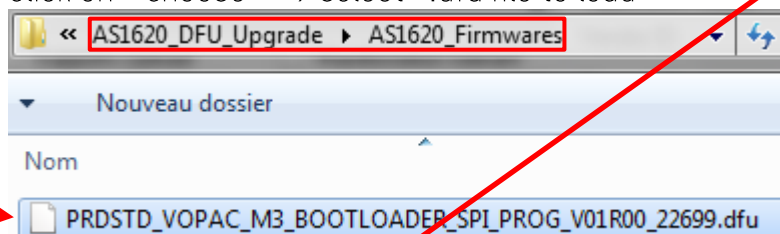


AS1635



10) In "Upgrade or Verify Action" :

- Click on « Choose » => select *.dfu file to load



- Click then on « Upgrade »

- 11) When the operation is completed, shut the power OFF
- 12) After that, put the power ON without pushing the button
- 13) The logic board must display « boot », « vxry » and then « run » or « E-xx », and is now up-to-date
- 14) Shut the power off and reconnect the optional board AS1623 if available
- 15) Reconfigure the application & test