## Firmware Upgrading Procedure on STM\_WiFi via USB

This procedure use the system memory bootloader of the STM32

- Insert the jumper on the Boot pin present on the EvaBoard
- Connect the module to PC by USB
- Use the <u>Flash Loader</u> <u>Demonstrator</u>, an application available on the ST website
- STM WiFi Port Name

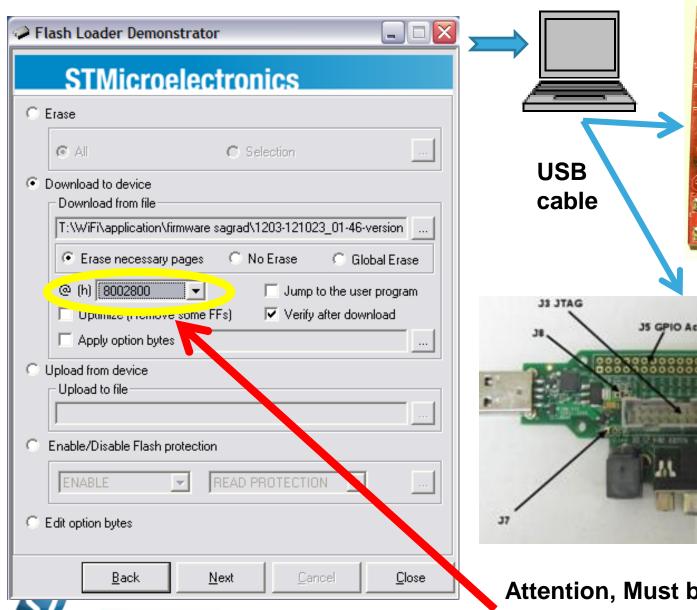


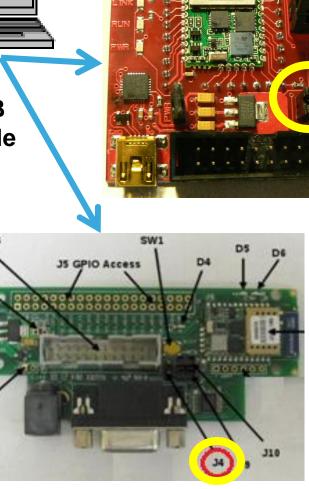






Firmware Upgrading Procedure on STM WiFi





Attention, Must be: 0x08002800



## Firmware Upgrading Procedure on STM\_WiFi

## User FLOW Description

- To place the module in "firmware download" mode, the BOOT0 pin needs to be pulled high (3.3v). This is accomplished by installing the jumper on J4.
- Insert the dongle in a USB slot of the PC
- Run the Flash Loader Demonstrator (UART Baud rate 115200)
- Specify the file to be downloaded (i.e. 1203-121023\_01-46-g7c6bd6b-stm\_demo.bin)
- Specify the 8002800 as starting address (as in the figure). ATTENTION!!! BE CAREFUL TO SPECIFY THE RIGHT ADDRESS
- Follow the steps (default) until the end of the process
- Put the boot pin to 0 to disable the flash memory boot mode. (i.e. remove the jumper)
- Reset the dongle

If this procedure fails, update the SW via ST-LINK-v2, see next pages.



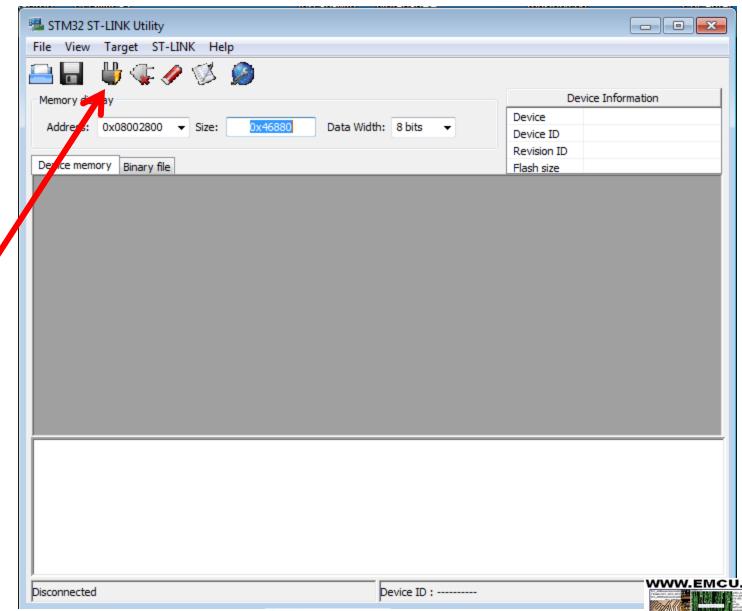




Firmware Upgrading Procedure on STM\_WiFi via ST-LINK

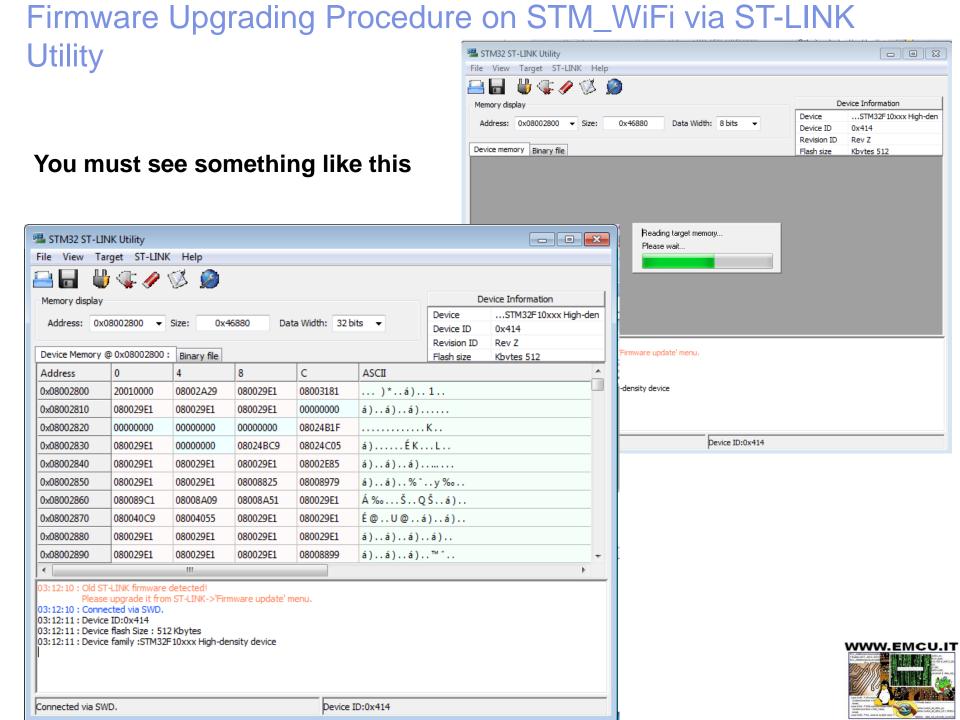
**Utility** 

**CLick here** 

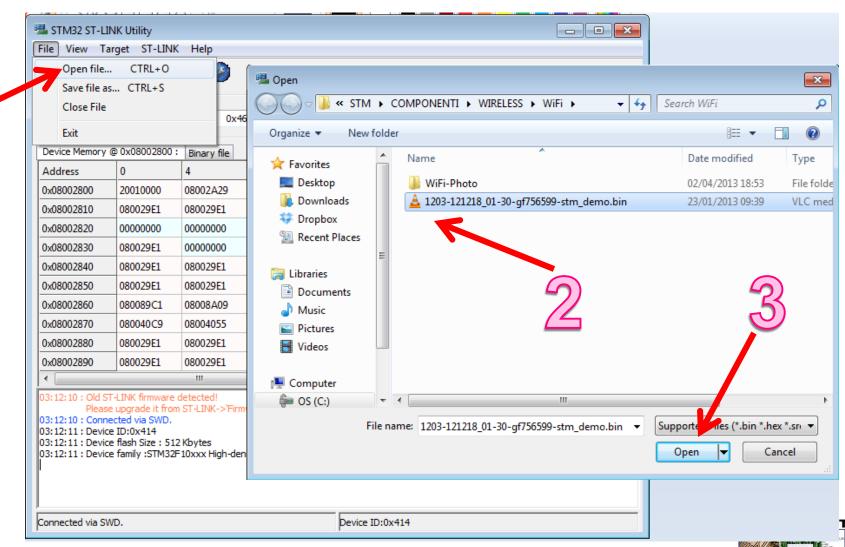








## Firmware Upgrading Procedure on STM\_WiFi via ST-LINK Utility

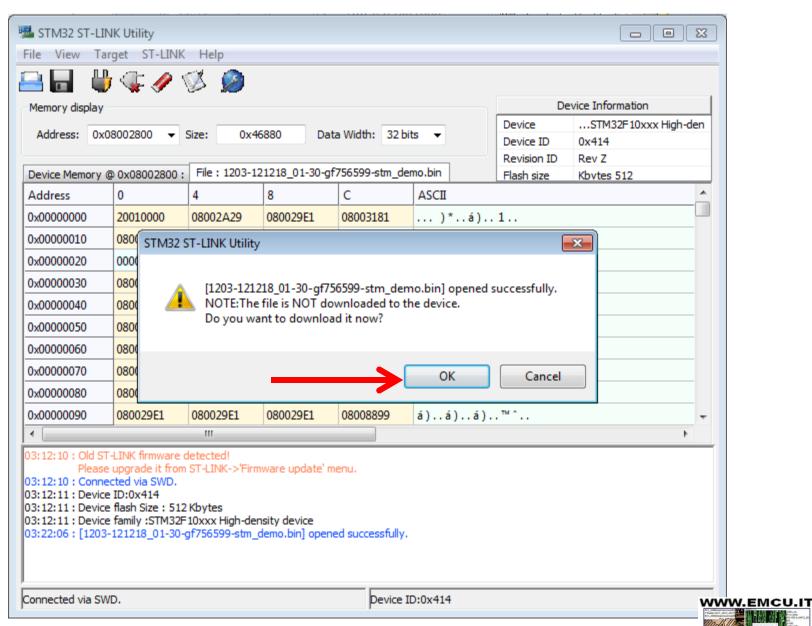






Firmware Upgrading Procedure on STM\_WiFi via ST-LINK

**Utility** 







Firmware Upgrading Procedure on STM\_WiFi via ST-LINK **Utility** STM32 ST-LINK Utility □ X File View Target ST-LINK Help 👑 🕨 🥢 💯 Device Information Memory display ...STM32F10xxx High-den Device Address: 0x08002800 0x46880 Data Width: 32 bits Size: Device ID 0x414 Revision ID Rev Z File: 1203-121218\_01-30-gf756599-stm\_demo.bin Device Memory @ 0x08002800: Flash size Kbvtes 512 Address ASCII Attention, Must be: 0x00000000 20010000 08002A29 080029E1 08003181 ... )\*..á)..1.. 0x00000010 080029E1 Download [ 1203-121218\_01-30-gf756599-stm\_demo.bin ] 0x08002800 00000000 UXUUUUU. Start address : 0x08002800 0x00000030 080029E1 : C:\STM\COMPONENTI\WIRELESS\WiFi\1 | Browse File path 080029E1 0x00000040 080029E1 0x00000050 Click "Program" to start programming. 0x00000060 080089C1 0x00000070 080040C9 Program Cancel 0x00000080 080029E1 á)..á)..á)..™^.. 080029E1 080029E1 0x00000090 080029E1 08008899 3:12:10 : Old ST-LINK firmware detected! Please upgrade it from ST-LINK->'Firmware update' menu. 03:12:10 : Connected via SWD. 03:12:11 : Device ID:0x414 03:12:11 : Device flash Size : 512 Kbytes 03:12:11: Device family :STM32F10xxx High-density device 03:22:06 : [1203-121218 01-30-gf756599-stm demo.bin] opened successfully. Device ID:0x414 Connected via SWD. WWW.EMCU.IT

