Firmware for STEVAL-IME014V1B

Features

- Easy drag and drop programming procedure

Description

STSW-IME014FW is a compiled and ready to use firmware for NUCLEO-F401RE.

This firmware is intended to be used in conjunction with the STEVAL-IME014V1B evaluation board to evaluate the characteristics and functionality of the STHV1600 16-channel high voltage pulser designed for ultrasound imaging applications.

Product summary	
16-channel high voltage pulser evaluation kit for ultrasound imaging applications	STEVAL-IME014V1B
16-channel high voltage pulser designed for ultrasound imaging applications	STHV1600
Graphical user interface	STSW-IME014GUI
Compiled ready to use firmware	STSW-IME014FW

DB3503 - Rev 1 - May 2018
For further information contact your local STMicroelectronics sales office.

www.st.com

1   How to connect Nucleo to the PC

You can download the new firmware version from the following location on www.st.com: STEVAL-IME014V1B.

To connect the STM32 Nucleo to a PC, follow the sequence below:

Step 1.   Connect the STEVAL-IME014V1B evaluation board to your PC via a USB cable or just supply it from the Power Supply Module.

Only VEXT and GND are needed, the HV supplies HVP0, HVP1, HVM0 and HVM1 must be disconnected.
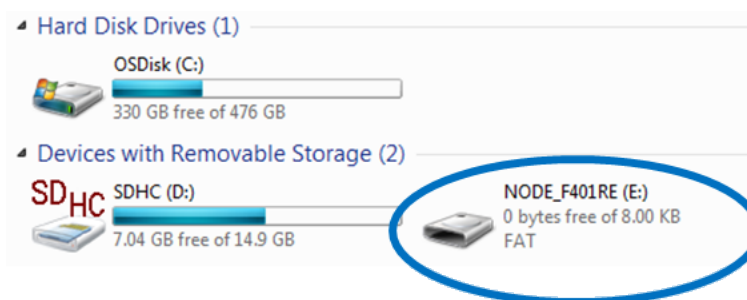
Figure 1. STEVAL-IME014V1B evaluation board connection

Step 2.   Connect the STM32 Nucleo development board to your PC with a USB cable.

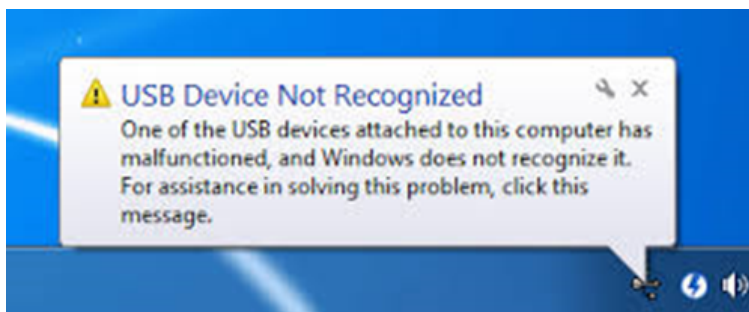**Figure 2. STM32 Nucleo development board connection**

Step 3.   If the drivers have been correctly installed, a new Mass Storage Device will be available in Computer Resources.

In the example below, it is the E drive.

Figure 3. Computer resources

If the USB device is not recognized, try using a USB + charging port, identified by the symbol in Figure 5. USB+charging port.

Figure 4. **USB device not recognized**
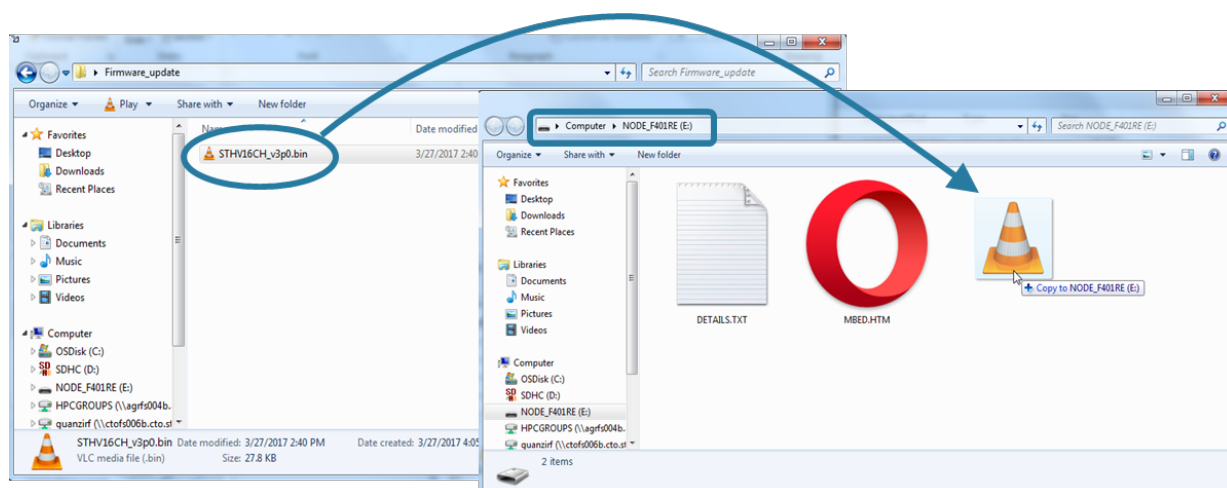

Figure 5. **USB+charging port**

1.1 Firmware update procedure

Before you update the firmware, ensure that the STEVAL-IME014V1B evaluation board is correctly powered and the STM 32 Nucleo development board is correctly connected to your pc.

Step 1. Although the update procedure does not modify the waves file on the STEVAL-IME014V1B drive, you should make a copy of the *.bin file on the evaluation board.

Step 2. Drag and drop the firmware file (*.bin) onto the STM32 Nucleo drive.

In the example below it is the E drive named "NODE_F401RE".

Figure 6. **Drag and drop firmware**

Step 3. Reset the STEVAL-IME014V1B evaluation board by disconnecting its USB cable connection from your PC and switching off the power supply (if used)

Revision history

Table 1. Document revision history

Date	Version	Changes
17-May-2018	1	Initial release.

IMPORTANT NOTICE – PLEASE READ CAREFULLY