



# Teseo-Suite and STM32

**Easy Teseo III Module management on STM32 board**

ADG/Positioning

v. 2.0



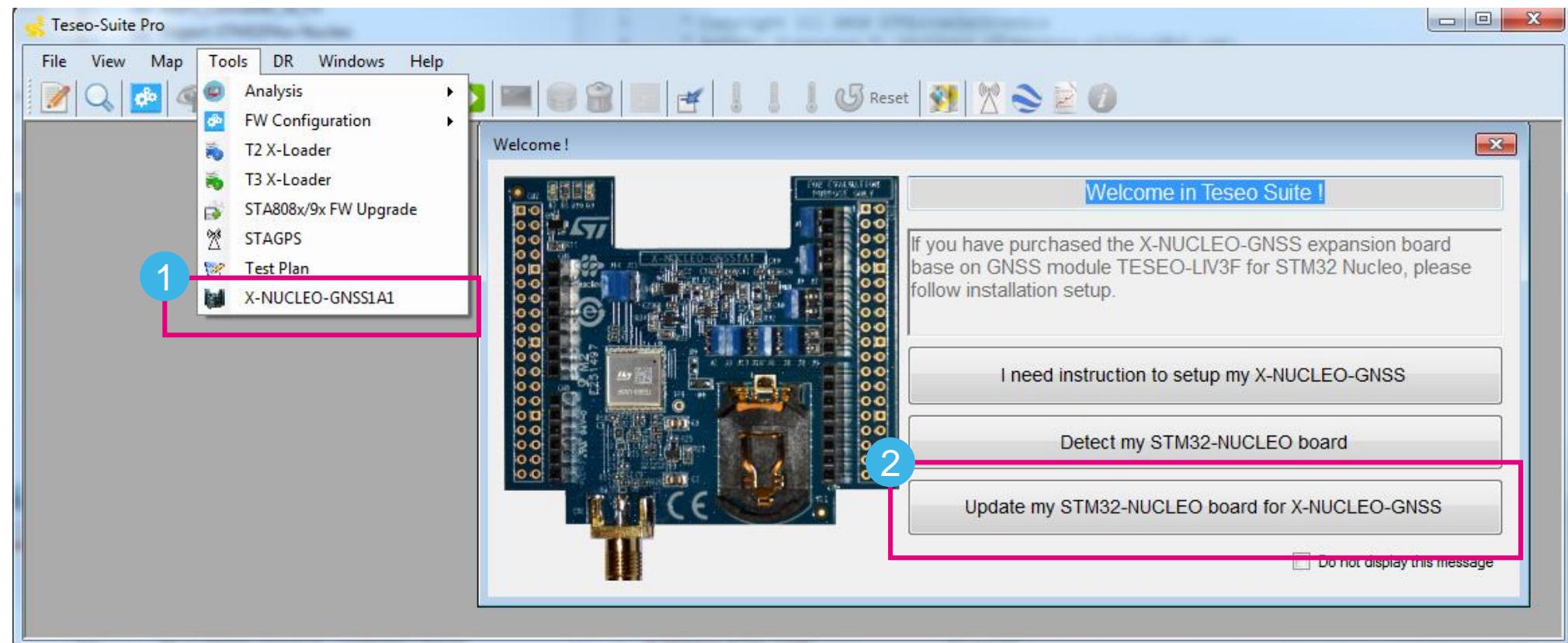
# Teseo-Suite and STM32

- Since version 5.2.3.3, Teseo-Suite fully manages the Teseo III module family through STM32F4 MCU (NUCLEO-F401RE)
- Teseo-Suite contains STM32F4's firmware to program STM32 device to:
  - Stream NMEA coming from Teseo III module
  - Upgrade the firmware on Teseo III module



# X-NUCLEO on Teseo-Suite

- 1 Select “X-NUCLEO-GNSS1A1”
- 2 Click “Update my STM32-Nucleo board...”



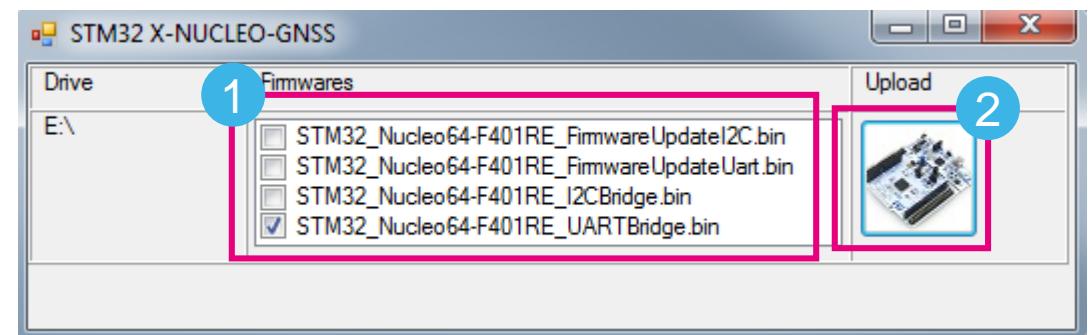


# Select STM32 firmware

## 1 Select the required STM32 firmware:

- xxx\_FirmwareUpdateUART.bin: to perform a firmware update on Teseo III Module via the STM32.UART port
- xxx\_FirmwareUpdateI2C.bin: to perform a firmware update on Teseo III Module via the STM32.I2C port
- xxx\_I2CBridge.bin: to perform NMEA streaming coming from Teseo III Module via the STM32.I2C port
- xxx\_UARTBridge.bin: to perform NMEA streaming coming from Teseo III Module via the STM32.UART port

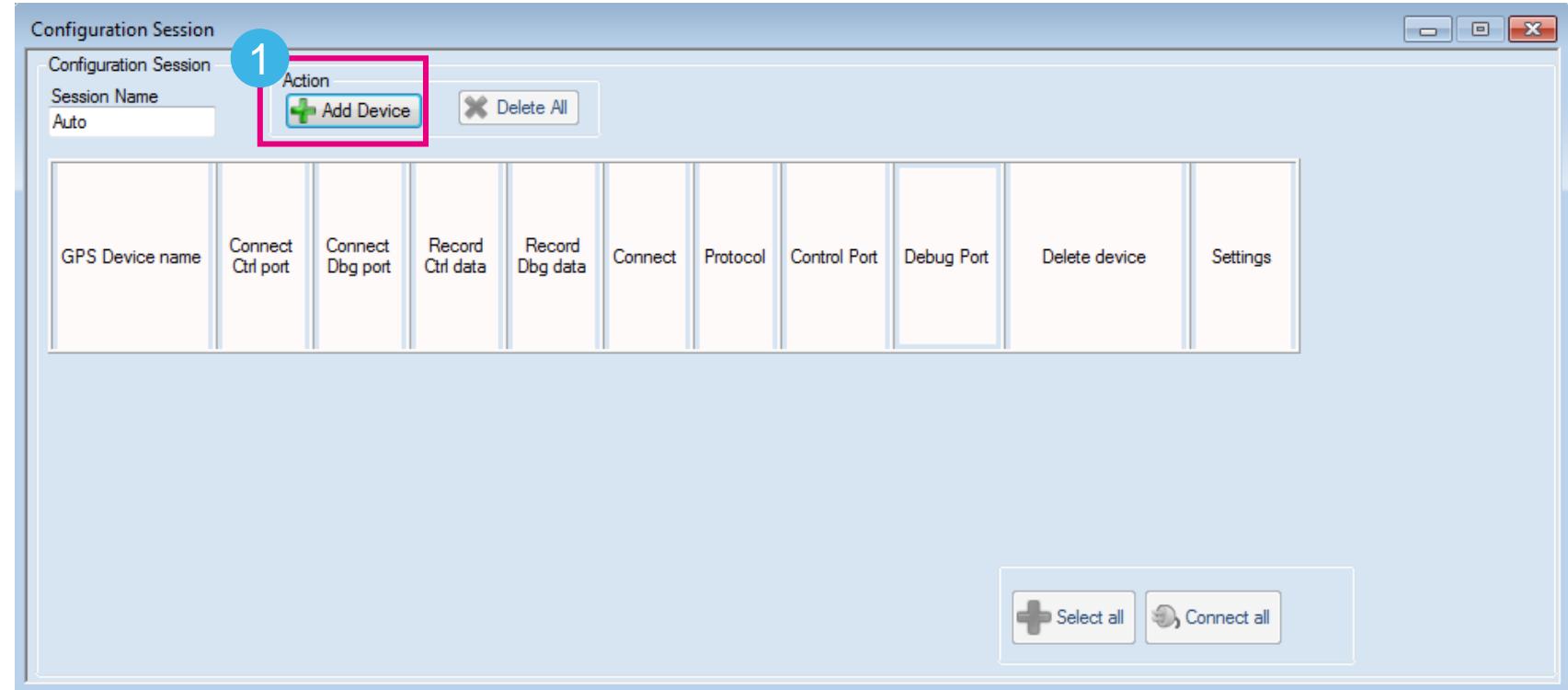
## 2 Install the STM32 firmware





# Add a new device

## 1 Add a new Device via the STM32-COM port



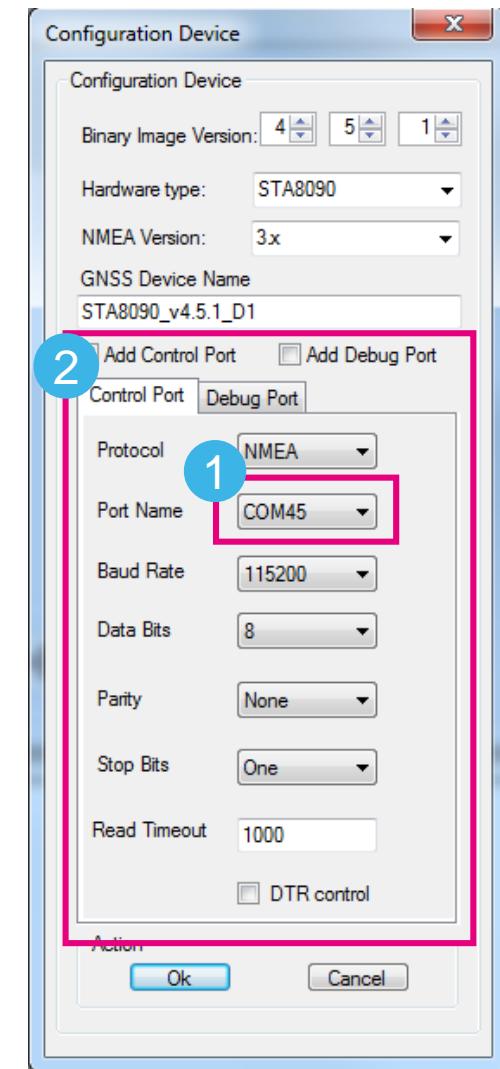


# Configure the STM32-COM port

- 1 Open the COM port with the STM32 device
- 2 Configure the COM port
- 3 Use the settings required for the STM32-COM port

Baud rate	Data bits	Stop Bits	Parity	Handshake
115200bps	8 Bits	1 Bit	None	None

Now you can use the Nucleo-STM32 + X-NUCLEO-GNSS1A1  
like any standard Teseo III Evaluation





# Documents & related resources

All documents are available on:  
[www.st.com](http://www.st.com)

- Teseo-LIV3F: [Webpage](#)
  - Datasheet
  - User Manuals
- X-Nucleo-GNSS1A1: [Webpage](#)
  - Datasheet
- Teseo-Suite: [Webpage](#)
  - Datasheet
  - Install program

The screenshot displays two main sections of the ST Teseo-Suite website:

**GNSS ICs**

This section lists various Teseo III GNSS IC packages and their features:

- WLCSP7 4x4 mm: STAB080CWE (Standalone), STAB080FG (Stacked Flash), STAB080GA (Low-cost PCB design).
- QFN6 7x7 mm: STAB080CWE (Standalone), STAB080FG (Stacked Flash), STAB080GA (Low-cost PCB design).
- QFN6 8x8 mm: STAB080CWE (Standalone), STAB080FG (Stacked Flash), STAB080GAT (Automotive grade), STAB080GAT (Wearable Flash QFN 0.5 pitch, Automotive grade).
- BGA96 6x6 mm: STAB080CWE/EXS.
- BGA169 9x9 mm: STAB080CWE/EXS.

**EVB-T3**

This section describes the Teseo III Evaluation Board (EVB) and its features:

- Product Specifications:** Description: DB3224 PC GUI software to control, configure and performance analyze of Teseo GNSS family, Version: 1.0, Size: 59 KB.
- Technical Documentation:** Product Specifications: Description: DB3223 Teseo III GNSS evaluation board, Version: 1.0, Size: 137 KB.