EVB-T3DRAW2

Teseo-DRAW Evaluation Board

Quick Start Guide

V. 1.0

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Introduction to EVB-T3DRAW2

- The **EVB-T3DRAW2** evaluation board is a complete standalone evaluation platform for our Teseo-DRAW sensor fusion firmware solution

- The **Teseo-DRAW** is ST Teseo Dead Reckoning Automotive Way solution which integrates Teseo 3 GNSS receivers with ST sensors to provide more accurate positioning data

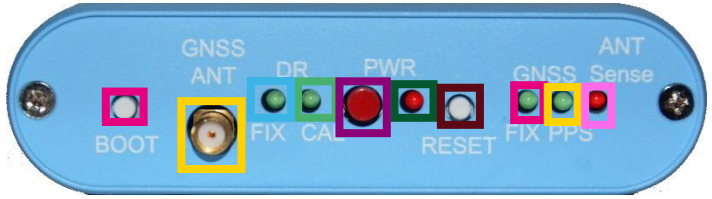
Top view

Front panel

Rear panel

EVB-T3DRAW2 – front and rear panel

- BOOT button
- SMA antenna connector
- Green DR-Fix LED
- Green DR-Cal LED
- Power-on button
- Power-on LED
- Reset button
- GNSS Fix LED
- Green PPS LED
- Antenna Sense LED



Front panel

Rear panel

- MicroSD card slot
- UART/USB connector
- OBD connector

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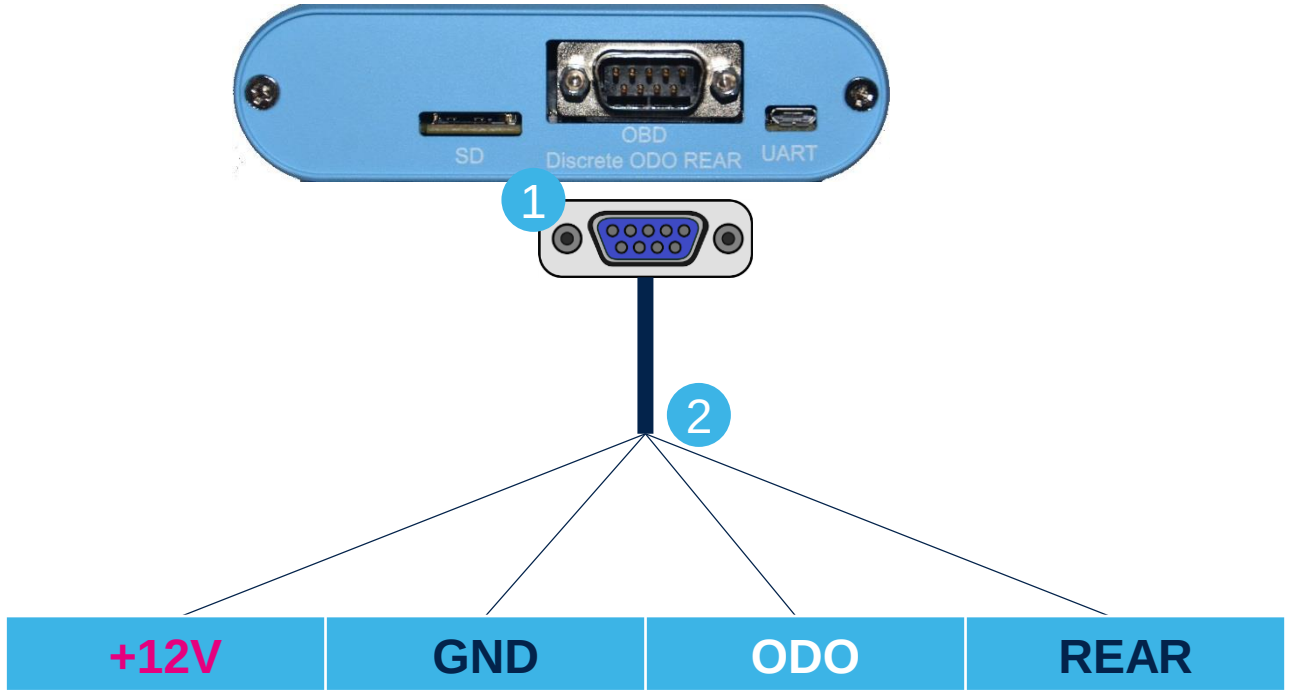
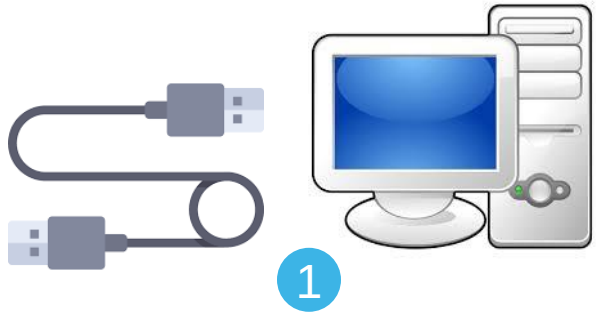
Connect the ODB port

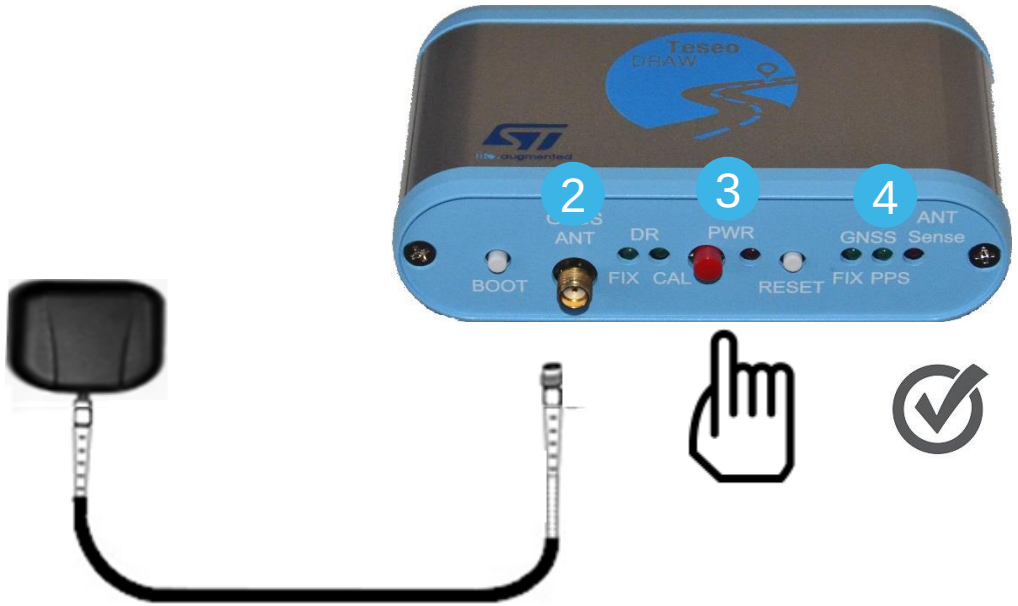
1. Connect the OBD cable to the OBD connector on the rear panel
2. Connect the four car signals to the ODB cable



Connect and start EVB-T3DRAW2

1. Connect the USB cable between the PC and the EVB-T3DRAW2 UART port
2. Connect the GNSS Antenna to the SMA input connector
3. Press the Power-on button
4. Verify that the green PPS LED blinks





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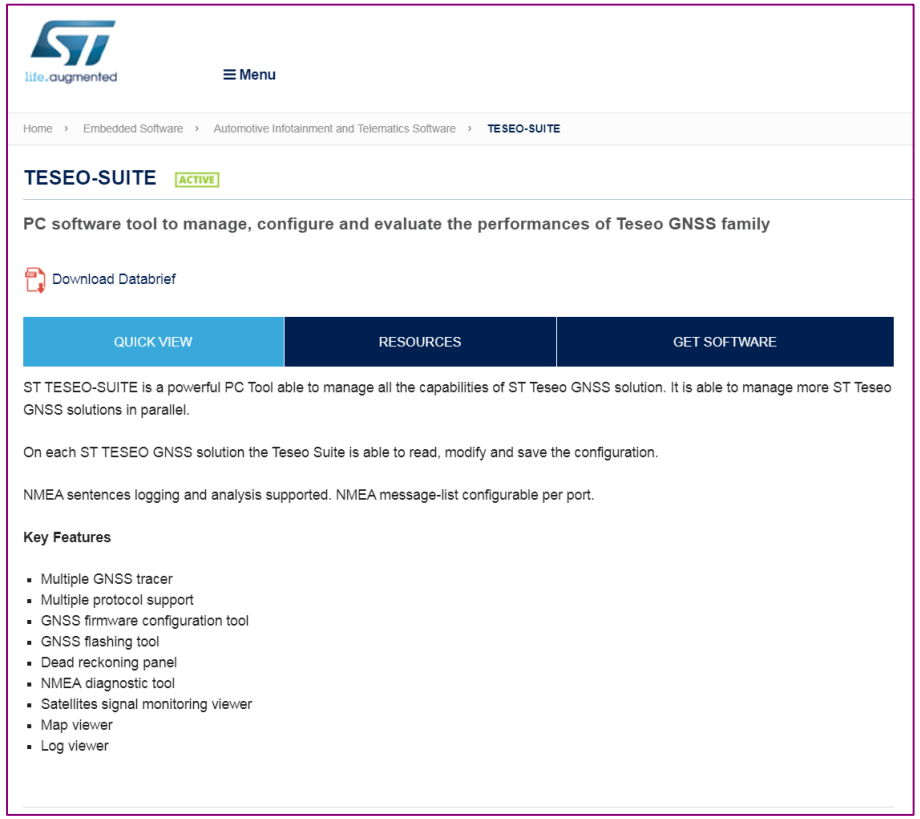
Install Teseo-Suite and VCP driver

The **Teseo-Suite** is a powerful PC Tool used to manage the EVB-T3DRAW2 evaluation board

- Download and install the Teseo Suite from www.st.com

- Download and install the FTDIchip VCP Driver from www.ftdichip.com



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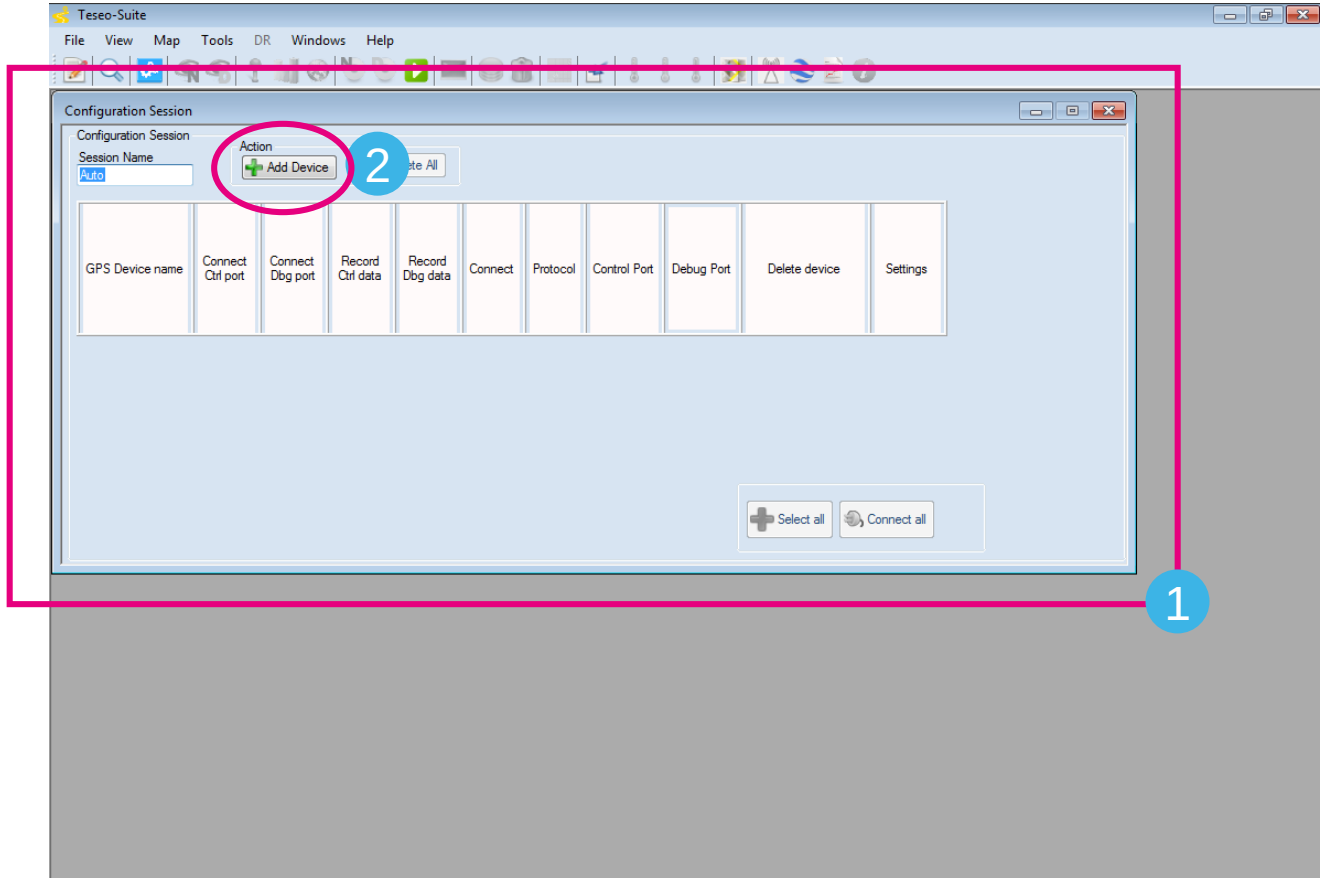
Teseo-Suite - Start

1. During the application start-up, the Configuration Session panel is displayed
2. Click the '**Add Device**' button to add a new device

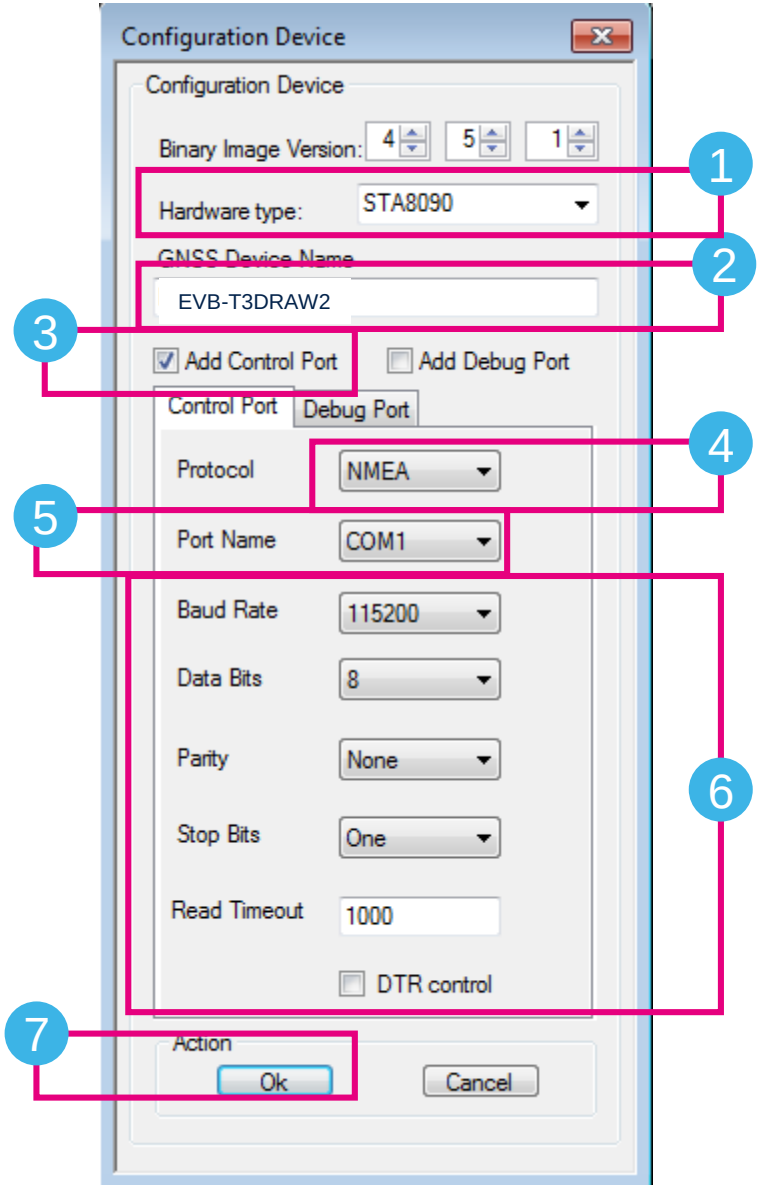


Teseo-Suite – Configuration device

1. Set the Hardware type: STA8090
2. Set the GNSS Device Name: **EVB-T3DRAW2**
3. Enable Add Control Port
4. Set the Protocol: **NMEA**
5. Set the Port Name: according to the discovered on the PC
6. Configure the port as shown:

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

7. Click the Ok button



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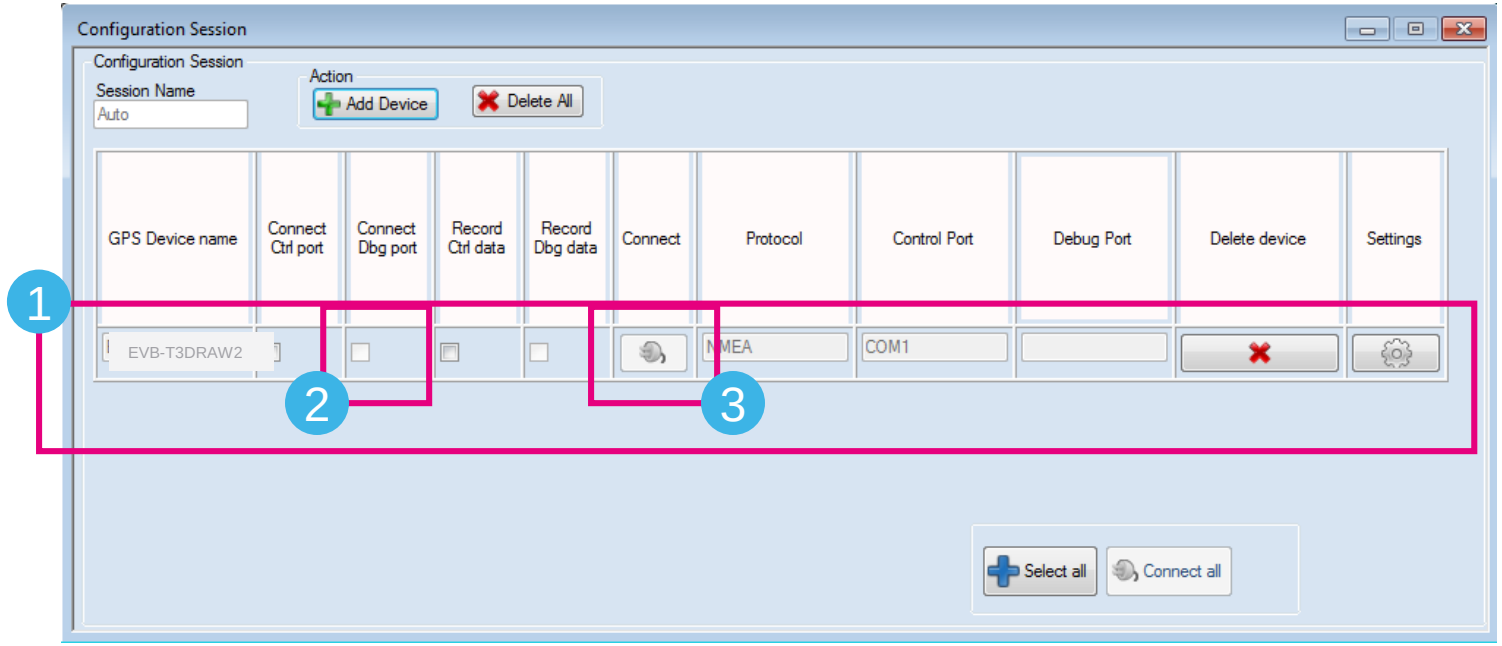
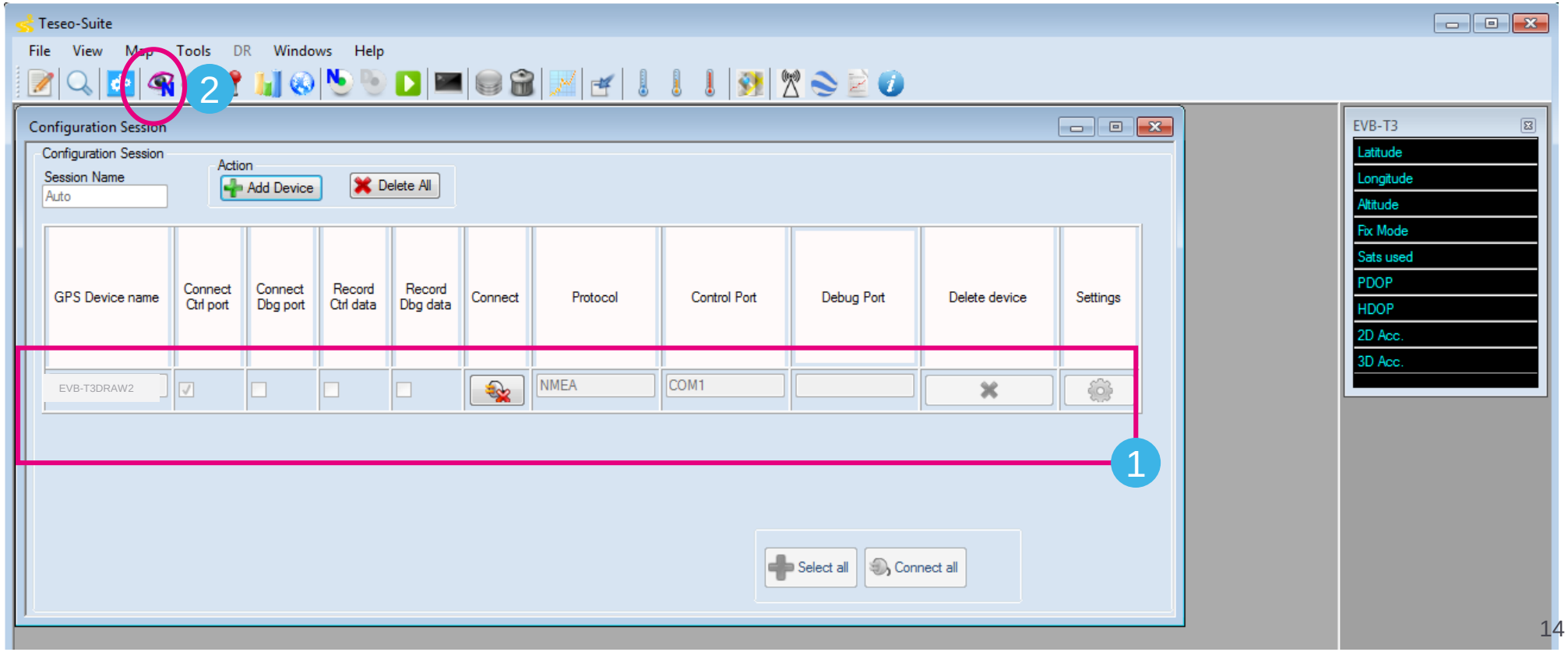
Teseo-Suite – Connect the device

1. In the Configuration Session panel, a new entry (row) is shown
2. Enable **Connect Ctrl port**
3. Click the **Connect** button



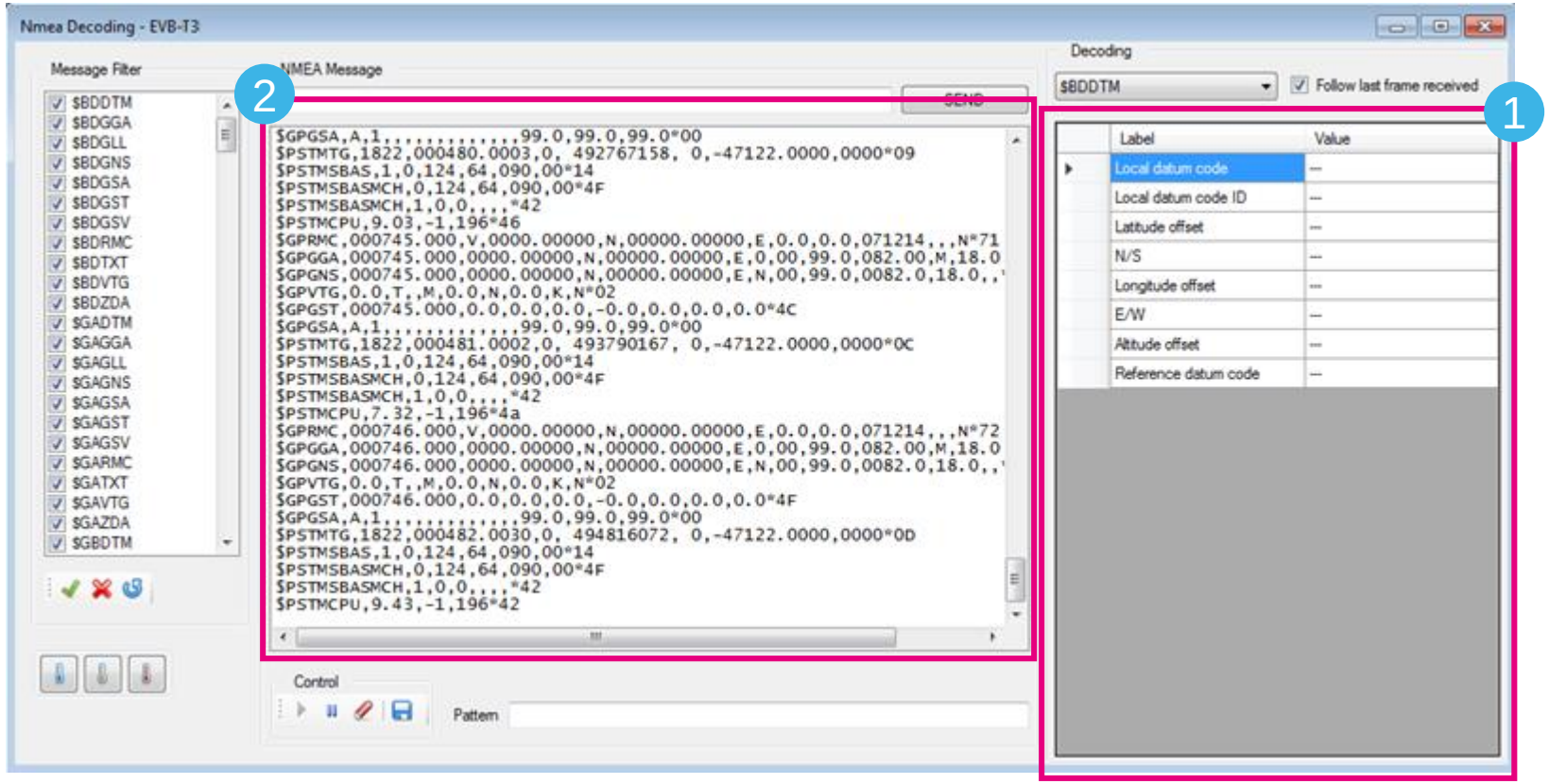
Teseo-Suite – Device working

1. In the summary panel, the GNSS EVB-T3DRAW2 status is indicated
2. Click on the NMEA output window to inspect the NMEA stream



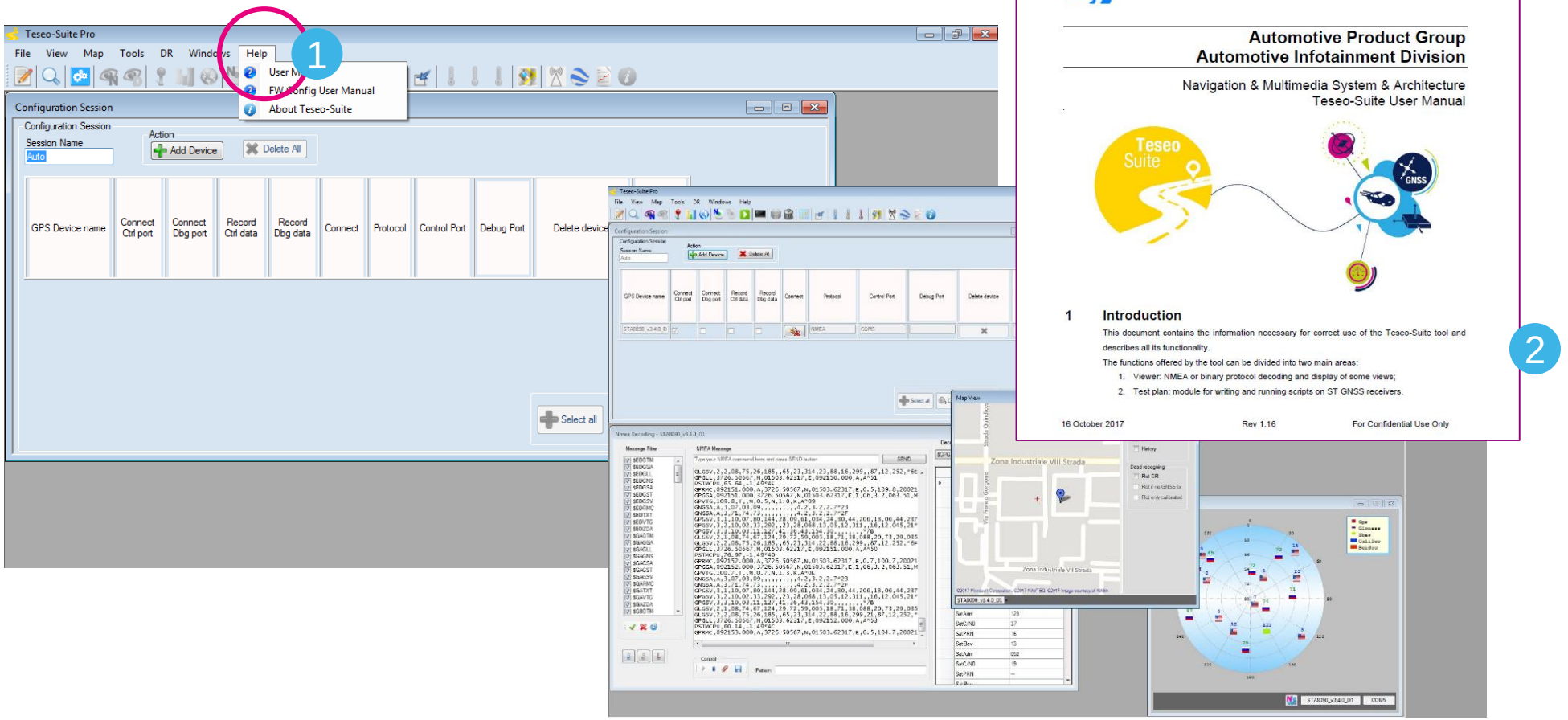
Teseo-Suite – Inspect device

1. The NMEA Decoding panel is shown
2. The NMEA Stream can be seen and inspected



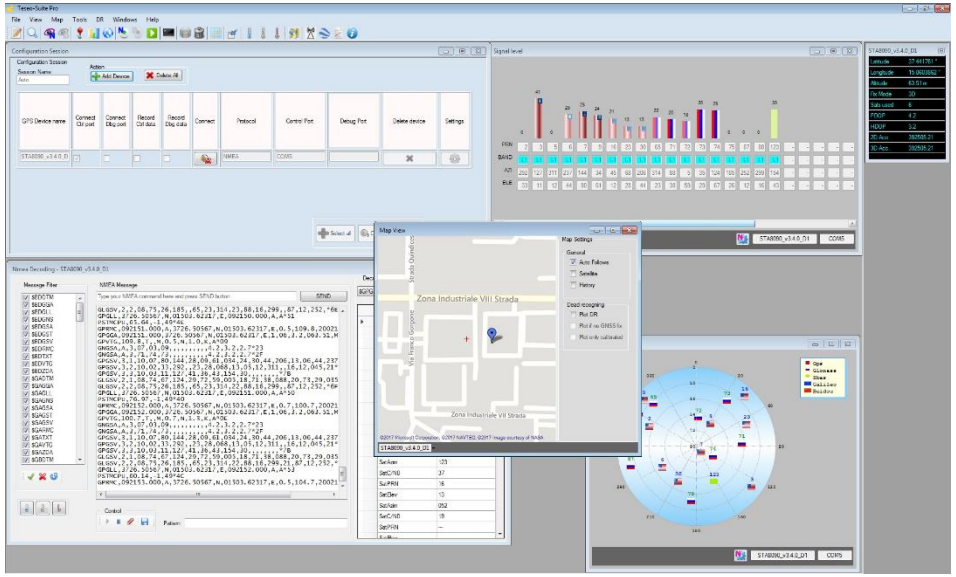
Teseo-Suite – Extra features

1. Click Help menu to access the user manual
2. The user manual provides detailed information



Have fun with EVB-T3DRAW2

Now you can use the EVB-T3DRAW2 and explore all its features with the Teseo-Suite.



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Documents & related resources

All documents are available on:
www.st.com

- Teseo III: Webpage
  - Datasheets
- EVB-T3DRAW2: Webpage
  - Datasheet
- Teseo-Suite: Webpage
  - Datasheet
  - Install program