EVB-LIV3F

Teseo-LIV3F Evaluation Board
Quick Start Guide
Quick start guide - Contents

1. Introduction to EVB-LIV3F
2. Connect and start EVB-LIV3F
3. Teseo-Suite configuration and startup
4. Documents & related resources
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• The **EVB-LIV3F** evaluation board is a complete standalone evaluation platform for Teseo-LIV3F Tiny GNSS module

• The **Teseo-LIV3F** module is an easy-to-use Global Navigation Satellite System (GNSS) stand-alone module, embedding **Teseo III** single die stand-alone positioning receiver IC working on multiple constellations (GPS, GLONASS, Beidou, Galileo, QZSS)
EVB-LIV3F – front and rear panels

Front panel
- On/Off Switch button
- PWR Red LED
- Reset button
- PPS Green LED

Rear panel
- Current measure connector
- SMA Antenna connector
- I2C connector
- UART/USB connector
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Connect and start EVB-LIV3F

1. Connect the USB cable between PC USB and the EVB-LIV3F UART port

2. Connect GNSS Antenna to the SMA input connector

3. Press the power on button

4. Verify that the RED Power LED is ON
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Install Teseo-Suite and VCP driver

The **Teseo-Suite** is a powerful PC Tool able to manage the EVB-LIV3F evaluation board

- Download and install the Teseo-Suite from [www.st.com](http://www.st.com)

- Download and install the FTDIchip VCP Driver from [www.ftdichip.com](http://www.ftdichip.com)
1. During the application start-up, the Configuration Session panel is shown.

2. Click the ‘Add Device’ button to add a new entry.
1. Set the Hardware type: STA8090
2. Set the GNSS Device Name: EVB-LIV3F
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 following table:

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<tr>
<th>Baud Rate</th>
<th>Data Bits</th>
<th>Stop Bits</th>
<th>Parity</th>
<th>Handshake</th>
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<tr>
<td>9600 bps</td>
<td>8 Bits</td>
<td>1 Bit</td>
<td>None</td>
<td>None</td>
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7. Click the Ok button
1. In the Configuration Session panel a new entry (row) is shown.
2. Enable **Connect Ctrl port**
3. Click the **Connect** button
1. In the summary panel, the GNSS EVB-LIV3F state is reported.
2. Click on the NMEA output window to inspect the NMEA stream.
The NMEA Decoding panel is shown

The NMEA Stream can be seen and inspect
Teseo-Suite – Extra features

1. Click Help menu to access User-Manual
2. User-Manual reports all information needed
• Now you can try the EVB-LIV3F and explore all its features with the Teseo-Suite
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All documents are available on: www.st.com

- **Teseo-LIV3F: Webpage**
  - Data-sheet
  - HW and SW User Manual

- **EVB-LIV3F: Webpage**
  - Datasheet
  - User Manual
  - Quick Start Guide

- **Teseo Suite: Webpage**
  - Datasheet
  - Install program