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Introduction to EVB-LIV3F

• 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

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

Front panel

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

- Download and install the **Teseo Suite Light** 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.
Teseo Suite Light – Configuration Device

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

Configure the port as following table:

<table>
<thead>
<tr>
<th>Baud rate</th>
<th>Data bits</th>
<th>Stop Bits</th>
<th>Parity</th>
<th>Handshake</th>
</tr>
</thead>
<tbody>
<tr>
<td>9600 bps</td>
<td>8 Bits</td>
<td>1 Bit</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

6. 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
Teseo Suite Light – device working

1. In the summary panel, the GNSS EVB-LIV3F state is reported
2. Click on the NMEA output window to inspect the NMEA stream
Teseo Suite Light – Inspect Device

1. The NMEA Decoding panel is shown
2. The NMEA Stream can be seen and inspect
1. Click *Help menu* to access User-Manual

2. User-Manual reports all information needed
Enjoy with EVB-LIV3F

Now you can enjoy the **EVB-LIV3F** and explore all its features with the **Teseo-Suite Light**.
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All documents are available on: www.st.com

- **Teseo-LIV3F:** Webpage
  - Data-sheet
  - Hardware User Manual
  - Software User Manual

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

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