

## Tiny dual-band GNSS low power module



### Features

- Simultaneous multi-constellation and multi band GNSS
- -162 dBm tracking sensitivity
- 1 m CEP position accuracy
- Embedded Flash
- FW upgrade
- $V_{CC}/V_{BAT}$  supply voltage range: from 1.8 V to 3.6 V
- $V_{CC\_IO}$  1.8 V and 3.3 V
- Tiny LCC 18 pin package (9.7x10.1)
- Wide operating temperature range (from -40 °C to 85 °C)
- Free FW configuration
- 12.  $\mu$ A standby current and 36 mA GNSS L1&L5 current consumption

### Description

The Teseo-LIV4F module is an easy to use global navigation satellite system (GNSS) standalone low power module, embedding Teseo IV single die standalone positioning receiver IC working simultaneously on multiple constellations (GPS/Galileo/Glonass/BeiDou/QZSS).

The Teseo-LIV4F modules bring the proven accuracy and robustness of Teseo IV multi bands chips accessible to all: the embedded firmware and the complete evaluation environment save development time, while the compactness and cost-effectiveness of this solution make it ideal for several applications, such as insurance, goods tracking, drones, tolling, anti-theft systems, people and pet location, vehicle tracking, emergency calls, fleet management, vehicle sharing, diagnostics and public transportation.

With its 9.7x10.1 mm tiny size, Teseo-LIV4F is offering superior accuracy thanks to the on-board temperature compensated crystal oscillator (TCXO) and a reduced time to first fix (TTFF) relying to its dedicated real time clock (RTC) oscillator.

Teseo-LIV4F provides also the real-time assisted GNSS.

Teseo-LIV4F module, being a certified solution, optimizes the time to market of the final applications with a temperature operating range from -40 °C to 85 °C.

Product status link	
<a href="#">Teseo-LIV4F</a>	
Product summary	
<b>Order code</b>	Teseo-LIV4F
<b>Marking</b>	Teseo-LIV4F
<b>Temperature range</b>	from -40 °C to 85 °C
<b>Package</b>	LCC-18 (9.7 mmx10.1 mm)
<b>Packing</b>	Tape and reel

## Revision history

**Table 1. Document revision history**

Date	Version	Changes
20-Oct-2020	1	Initial release.

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