

Tiny GNSS low power module



Features

- Simultaneous multi-constellation
- -163 dBm tracking sensitivity
- 1.5 m CEP position accuracy
- Embedded Flash for data logging and FW upgrade
- V_{CC}/V_{BAT} supply voltage range: from 1.75 V to 4.2 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
- 17.7. μ A standby current and 82.7 mW tracking power consumption

Description

The Teseo-LIV3FL module is an easy to use global navigation satellite system (GNSS) standalone low power module, embedding Teseo III single die standalone positioning receiver IC working simultaneously on multiple constellations (GPS/ Galileo/Glonass/BeiDou/QZSS).

The Teseo-LIV3FL modules bring the proven accuracy and robustness of Teseo III chips to the reach of everyone: 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.

Within its 9.7x10.1 mm tiny size, Teseo-LIV3FL 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.

Thanks to the embedded flash Teseo-LIV3FL offers many extra features such as data logging, 7 days autonomous assisted GNSS, FW reconfigurability as well as FW upgrades.

Teseo-LIV3FL provides also the autonomous assisted GNSS able to predict satellite data based on previous observation of satellite.

Teseo-LIV3FL 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

[Teseo-LIV3FL](#)

Product summary

Order code	Teseo-LIV3FL
Marking	Teseo-LIV3FL
Temperature range	from -40 °C to 85 °C
Package	LCC-18 (9.7 mmx10.1 mm)
Packing	Tape and reel

Revision history

Table 1. Document revision history

Date	Version	Changes
25-Sep-2020	1	Initial release.

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