

Tiny dual-band GNSS measurement engine module



Features

- Simultaneous multiconstellation and multi band L1 and L5 GNSS
- -162 dBm tracking sensitivity
- 1 m CEP position accuracy
- GNSS Raw measurement data (Carrier phase)
- Firmware upgrade and configuration
- Embed LNA and SAW
- Antenna monitor
- VCC/VBAT/VCC_IO supply voltage 3.3 V
- LCC 18 pin packages (9.7 mm x 10.1 mm)
- Operating temperature (from -40 °C to 85 °C)
- 12 µA standby current and 36 mA GNSS L1 and L5 current consumption

Description

The **Teseo-LIV4FM** module is an easy-to-use global navigation satellite system (GNSS) standalone measurement engine module, embedding Teseo IV single die standalone positioning receiver IC working simultaneously on multiple constellations (GPS/Galileo/Glonass/BeiDou/QZSS).

The Teseo-LIV4FM module brings the proven high quality GNSS measurement data, with that the customer can address precise positioning applications like micro mobility, agriculture, drone by achieving centimeter level accuracy using on the MCU-host RTK/PPP algorithm.

Within its 9.7x10.1 mm tiny size, Teseo-LIV4FM 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-LIV4FM 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-LIV4FM](#)

Product summary

Order code	Teseo-LIV4FM
Marking	Teseo-LIV4FM
Temperature range	-40 °C, 85 °C
Package	LCC-18 (9.7 mm x 10.1 mm)
Packing	Tape and reel

Revision history

Table 1. Document revision history

Date	Revision	Changes
04-Jul-2023	1	Initial release.

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