


Automotive GNSS dead-reckoning module with 6-axis IMU



Features

- AEC-Q10x qualified on going 
- Simultaneous multi-constellation
- Teseo dead reckoning automotive way firmware
- -163 dBm sensitivity tracking
- 1.5 m CEP accuracy positioning
- Embedded flash for FW upgrade
- Automotive GNSS and 6-axis inertial sensor
- 3.3 V supply voltage range
- LCC 24 pins package (16.0 mm x 12.2 mm x 2.42 mm)
- Operating temperature (from -40 °C to 85 °C)
- Free FW configuration
- 14.22 µW standby current and 82.1 mW tracking power consumption

Description

The **Teseo-VIC3DA** module is an easy to use dead-reckoning global navigation satellite system (GNSS) standalone module, embedding Teseo III single die standalone positioning receiver IC working simultaneously on multiple constellations (GPS/Galileo/Glonass/BeiDou/QZSS).

The Teseo-VIC3DA module brings the proven accuracy and robustness of Teseo III chip to the reach of everyone: the embedded firmware and the complete evaluation environment save development time.

Within its 16.0 mm x 12.2 mm size, Teseo-VIC3DA 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-VIC3DA offers many extra features such as 7 days autonomous assisted GNSS, predictive assisted GNSS and real-time assisted GNSS.

Teseo-VIC3DA supports FW configurability as well as FW upgrades.

Teseo-VIC3DA 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-VIC3DA](#)

Product summary

Order code	Teseo-VIC3DA
Firmware version	Teseo-DRAW
Device grade	AEC-Q100

Revision history

Table 1. Document revision history

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

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