

GNSS 15 Click



PID: MIKROE-5987

GNSS 15 Click is a compact add-on board for advanced automotive navigation and tracking applications. This board features the TESEO-VIC3DA, an automotive GNSS dead-reckoning module from STMicroelectronics. This module combines a 6-axis IMU with multi-constellation satellite reception, offering exceptional accuracy and dead-reckoning capabilities. It stands out for its rapid time-to-first-fix and the ability to receive firmware updates for enhanced performance. Designed for flexibility, it supports both UART and I2C communications, includes pins for precise odometer readings, and features an SMA antenna connector for superior signal quality. This Click board™ is suitable for developers looking to integrate reliable navigation and positioning into automotive systems, asset-tracking solutions, and other applications demanding high precision and dependability.

GNSS 15 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this [Click board™](#) apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	GPS/GNSS
Applications	Ideal for automotive navigation, asset tracking, and high-precision positioning applications
On-board modules	TESEO-VIC3DA - advanced automotive GNSS dead-reckoning module from STMicroelectronics
Key Features	Automotive-grade GNSS dead-reckoning capabilities, multi-constellation, 6-axis IMU, rapid TTFF for quick navigation start-up, flexible communication, odometer function, PPS output, firmware upgradable for future enhancements, and more
Interface	I2C,UART
ClickID	Yes
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,External

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)
[ClickID](#)

Downloads

[TPS22943 datasheet](#)
[GNSS 15 click 2D and 3D files](#)
[TESEO VIC3DA datasheet](#)
[GNSS 15 Click schematic](#)
[GNSS 15 click example on Libstock](#)

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