

GNSS RTK 2 Click



PID: MIKROE-5430

GNSS RTK 2 Click is a compact add-on board used to enhance the precision of position data derived from satellite-based positioning systems. This board features the ZED-F9R, a multi-band professional-grade GNSS module with integrated multi-band Real Time Kinematics (RTK) technology offering centimeter-level accuracy from u-blox. This module concurrently uses GNSS signals from all four GNSS constellations (GPS/QZSS, GLONASS, Galileo, and BeiDou) and provides a reliable multi-band RTK turnkey solution with up to 30Hz real-time position update rate and full GNSS carrier raw data. This Click board™ is suitable for high-precision positioning for demanding industrial applications like machine control, ground robotic vehicles, and unmanned aerial vehicles (UAV).

GNSS RTK 2 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

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	Can be used for high-precision positioning for demanding industrial applications
On-board modules	ZED-F9R - sensor fusion module with 3D sensors and a multi-band GNSS receiver from u-blox
Key Features	High precision, high performance, multi-band GNSS RX, centimeter-level accuracy, professional-grade, integrated IMU for RTK, selectable interface, support for RTCM soccections, geofence/RTK/time pulse indication, and more
Interface	GPIO,I2C,SPI,UART,USB
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[GNSS RTK 2 click example on Libstock](#)

[GNSS RTK 2 click 2D and 3D files](#)

[ZED-F9R-02B datasheet](#)

[GNSS RTK 2 click schematic](#)

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