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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 multiband 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 $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ 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.







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Specifications

Туре	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

www.mikroe.com

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

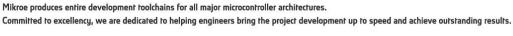
Downloads

GNSS RTK 2 click example on Libstock

GNSS RTK 2 click 2D and 3D files

ZED-F9R-02B datasheet

GNSS RTK 2 click schematic







health and safety management system.