

GNSS RTK 3 Click



PID: MIKROE-5914

GNSS RTK 3 Click is a compact add-on board that enhances the precision of position data derived from satellite-based positioning systems. This board features the [LC29H](#), a dual-band, multi-castellation GNSS module from [Quectel](#). This module supports the concurrent reception of all five global GNSS constellations: GPS, BDS, Galileo, GZSS, and GLONASS. It can receive and track many visible satellites in multi-bands, significantly mitigating the multipath effect in deep urban canyons and improving positioning accuracy. This Click board™ makes the perfect solution for the development of high-precision positioning for demanding industrial applications like machine control, ground robotic vehicles, and unmanned aerial vehicles (UAV).

GNSS RTK 3 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 the development of high-precision positioning for demanding industrial applications like machine control, ground robotic vehicles, and unmanned aerial vehicles (UAV)
On-board modules	LC29H(DA/EA) - dual-band, multi-castellation GNSS module from Quectel
Key Features	Multi-GNSS engine for GPS, GLONASS, BDS, Galileo, and QZSS, reception of L1 and L5 GNSS bands signals concurrently, RTK providing sub-meter accuracy with fast convergence time and outstanding performance, integrated LNA for high sensitivity, integrated SAW filter for noise cancellation, and more.
Interface	I2C,UART
ClickID	Yes
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[GNSS RTK 3 click example on Libstock](#)

[LC29H datasheet](#)

[TXS0108E datasheet](#)

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

[GNSS RTK 3 click schematic](#)

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