

RTK Base Click



PID: MIKROE-5442

RTK Base Click is a compact add-on board used to improve the positional accuracy of the compatible RTK Rover board. This board features Quectel's LG69TASMD, a dual-band multi-constellation GNSS module featuring a high-performance and high-reliability positioning engine. This module carries an RTK base station function by calculating and transmitting differential correction data via radio to allow the roving GPS to correct its position. It features the fifth generation of STMicroelectronics® positioning receiver platform with 80 tracking and four fast acquisition channels, supports up to 4 concurrent global constellations (GPS, QZSS, Galileo, and BDS) alongside RTCM 3.x protocol and commonly used UART interface. This Click board™ is suitable for many applications requiring a base station, such as surveying, point cloud development, precision farming, and autonomous navigation.

RTK Base 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 many applications requiring a base station, such as surveying, point cloud development, precision farming, and autonomous navigation
On-board modules	LG69TASMD - multi-constellation GNSS module from Quectel Wireless Solutions
Key Features	Base station function, 80 tracking channels and 4 fast acquisition channels, high-performance, high-reliability, supports up to 4 concurrent global constellations (GPS, QZSS, Galileo, and BDS), RTCM 3.x protocol, UART and USB interface, PPS indicator, and more
Interface	UART,USB
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,5V

Resources

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

Downloads

[YG0063AA datasheet](#)
[RTK Base click 2D and 3D files](#)
[RTK Base click schematic](#)
[FT2232D datasheet](#)
[LG69T datasheet](#)
[RTK Base click example on Libstock](#)

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