

IRNSS Click



PID: MIKROE-4772

IRNSS Click is a compact add-on board that provides fast positioning capability. This board features the L89H, a high-performance IRNSS-enabled GNSS module capable of acquiring and tracking GPS, IRNSS, GLONASS, BeiDou, Galileo, and QZSS signals from Quectel Wireless Solutions. The module can work at L1 and L5 bands with two embedded antennas simultaneously with a default configuration of GPS+Galileo+IRNSS. Compared with the GNSS module that works at the L1 band only, the L89H uses signals in default configuration to increase the number of visible satellites, reduce TTFF and enhance positioning accuracy, mainly when is used in rough urban environments. This Click board™ is suitable for both acquisition and tracking and represents an ideal product for automotive, consumer, and industrial tracking applications.

IRNSS 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 both acquisition and tracking and represents an ideal product for automotive, consumer, and industrial tracking applications
On-board modules	L89H - high-performance acquiring and tracking IRNSS-enabled GNSS module from Quectel Wireless Solutions
Key Features	Low power consumption, support IRNSS L5 band, external and chip antenna, multi-GNSS engines for GPS, IRNSS, GLONASS, BeiDou, Galileo and QZSS, integrated LNAs for better sensitivity, anti-jamming feature, and more
Interface	I2C,UART
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[IRNSS click 2D and 3D files](#)

[L89H datasheet](#)

[IRNSS click schematic](#)

[IRNSS click example on Libstock](#)

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