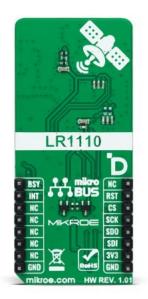


Time-saving embedded tools

MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918 Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com www.mikroe.com

# LR IoT Click





#### PID: MIKROE-5447

LR IoT Click is a compact add-on board that contains a long-range LoRa transceiver. This board features <u>Semtech Corporation's LR1110</u>, an ultra-low power platform integrating a LoRa® transceiver, multi-constellation GNSS, and passive WiFi AP MAC address scanner. Alongside its sub-GHz capabilities, the LR1110 also has a multi-band front-end capable of receiving 802.11b/g/n WiFi Access Point MAC addresses and GNSS (GPS, BeiDou, geostationary) satellite raw data befitting geo-positioning purposes. The acquired information is then transmitted using an LPWAN network to a geolocation server, which analyzes it and correlates the position with data from a geolocation database, enabling a unique balance between low power and performance. This Click board<sup>™</sup> is highly configurable to meet different application requirements utilizing the global LoRaWAN® standard or proprietary protocols, targeting geolocation applications.

LR IoT Click is supported by a <u>mikroSDK</u> compliant library, which includes functions that simplify software development. This <u>Click board</u><sup>TM</sup> comes as a fully tested product, ready to be used on a system equipped with the <u>mikroBUS</u><sup>TM</sup> 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).



MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918 Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com www.mikroe.com

## Specifications

Туре	LoRa
Applications	Can be used for asset location, traceability, loss and theft prevention, asset recovery, and inventory management
On-board modules	LR1110 - long-range, ultra-low power transceiver from Semtech Corporation
Key Features	Low power consumption, worldwide ISM bands support, high efficiency and sensitivity, multi- purpose radio front-end targeting geolocation purposes, SPI interface, interrupt and reset, and more
Interface	SPI
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

### Resources

<u>mikroBUS</u>™

<u>mikroSDK</u>

Click board<sup>™</sup> Catalog

Click boards<sup>™</sup>

### **Downloads**

LR IoT click example on Libstock

LR IoT click 2D and 3D files

LR1110 datasheet

LR IoT click schematic

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).