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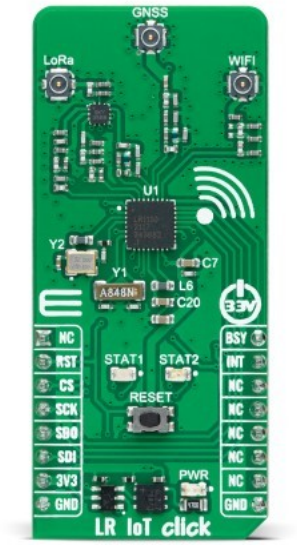
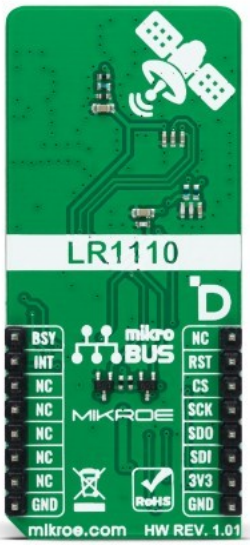
LR IoT Click





PID: MIKROE-5447

LR IoT Click is a compact add-on board that contains a long-range LoRa transceiver. This board features Semtech Corporation's LR1110, 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™ 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 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.

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Specifications

Type	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

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

LR IoT click example on Libstock

LR IoT click 2D and 3D files

LR1110 datasheet

LR IoT click schematic