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LTE IoT 6 Click

PID: MIKROE-4388

LTE IoT 6 Click is a compact add-on board that contains an IoT module with worldwide coverage. This board features the SARA-R412M, a cellular module that offers multi-band data transmissions for Low Power Wide Area solutions in a compact form factor from u-Blox. It provides software-based multi-band configurability enabling international multi-regional coverage in LTE Cat M1/NB1 and (E)GPRS radio access technologies. It also ensures data integrity between applications via secure communication protocols (two-way authentication between the client and server) and provides critical firmware updates thanks to the u-Blox proprietary uFOTA (firmware over the air). This Click board™ is suitable for secure low-power IoT applications requiring deeper range (underground) and extended battery life.

LTE IoT 6 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	GPS/GNSS,LTE IoT
Applications	Can be used for secure low-power IoT applications requiring deeper range (underground) and extended battery life.
On-board modules	LTE IoT 6 Click is based on the SARA-R412M, an ultra-compact LTE Cat M1/NB1, and EGPRS module with multi-regional coverage with data communications up to 1200 kbit/s from u-Blox.
Key Features	LTE Cat M1/NB1, and EGPRS module with multi-regional coverage, low power consumption, high precission, ideal for mission-critical IoT solutions, ensures data integrity, over-the-air firmware updates, and more.
Interface	GPIO,UART
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™ Standard specification

mikroSDK

Click board™ Catalog

Click boards™

Downloads

TPS7A7002 datasheet

SARA-R412M datasheet

SARA-R412M AT Commands

LTE IoT 6 click schematic

LTE IoT 6 click 2D and 3D files

LTE IoT 6 click example on Libstock

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).