

## 4G LTE 2 Click - Voice



PID: MIKROE-5287

**4G LTE 2 Click** is a compact add-on board representing a secure-cloud multi-band solution offering universal connectivity and reliable performance. This board features the [LARA-R6001](#), the world's smallest LTE Cat 1 module with global coverage and a built-in MQTT client from [u-blox](#), representing a data and voice solution. Equipped with familiar [AT commands](#) set over the UART interface, USB interface, and Network and Status indicators, the LARA-R6001 also has a comprehensive certification scheme and multi-band/multi-mode capabilities providing excellent flexibility alongside the support of voice/audio application. Taking advantage of embedded IoT protocols and security features, this Click board™ is suitable for various applications, such as device management, remote device actions, and secure FOTA updates.

4G LTE 2 Click - Voice 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             | 2G GPRS,4G LTE,GSM/LTE                                                                                                                                                                                                                                                          |
| Applications     | Can be used for device management, remote device actions, and secure FOTA updates                                                                                                                                                                                               |
| On-board modules | LARA-R6001 - LTE Cat 1 module with global coverage from u-blox                                                                                                                                                                                                                  |
| Key Features     | Universal connectivity, multi-mode, secure cloud, support of voice/audio applications, receive-diversity for reliable performance in difficult conditions, MNO certifications, professional grade, global region, compatible with u-blox services, various interfaces, and more |
| Interface        | I2C,UART,USB                                                                                                                                                                                                                                                                    |
| Compatibility    | mikroBUS                                                                                                                                                                                                                                                                        |
| Click board size | L (57.15 x 25.4 mm)                                                                                                                                                                                                                                                             |
| Input Voltage    | 3.3V or 5V                                                                                                                                                                                                                                                                      |

## Resources

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

## Downloads

[TXB0106 datasheet](#)
[TPS7A7002 datasheet](#)
[PCA9306 datasheet](#)
[LARA-R6 AT commands](#)
[LARA-R6 DATA datasheet](#)
[4G LTE 2 Click - Voice example on Libstock](#)
[AP2112 datasheet](#)
[MAX9860 datasheet](#)
[4G LTE 2 Click - Voice 2D and 3D files](#)

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).

## [4G LTE 2 Click - Voice 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).