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4G LTE&GNSS Click

PID: MIKROE-5890

4G LTE&GNSS Click is a compact add-on board designed for advanced global tracking and telematics applications, enabling developers to build highly efficient and smaller solutions without compromising performance. This board features the LENA-R8, a multi-mode LTE Cat 1bis module from u-blox. It stands out for its compact size and extensive network compatibility. It supports 14 LTE bands, four GSM/GPRS bands for universal connectivity, and integrated u-blox GNSS for precise global tracking. The board facilitates seamless communication via UART and includes a USB interface for comprehensive device management and firmware updates. Key features include dual LED indicators for operational status, flexible power options, and a nano SIM card holder supporting various SIM voltages. Ideally suited for IoT applications requiring broad global coverage and high-performance location services, the 4G LTE&GNSS Click board is a powerful tool for developers in the tracking and telematics markets.

4G LTE&GNSS Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

Specifications

Type	GSM/LTE
Applications	Ideal for IoT applications requiring broad global coverage and high-performance location services like tracking and telematics markets
On-board modules	LENA-R8 - multi-mode LTE Cat 1bis module with wide network support from u-blox
Key Features	14 LTE bands and four GSM/GPRS bands, global network connectivity and coverege, GNSS support for precise tracking and telematics, connectivity and location services (CaaS and LaaS applications), UART and USB interfaces, SIM card interface, test points for diagnostics and operational adjustments, and more
Interface	UART,USB
ClickID	Yes
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

4G LTE&GNSS click example on Libstock

4G LTE&GNSS click schematic v100

LENA-R8001M10-00C datasheet

LENA-R8 AT commands

4G LTE&GNSS click 2D and 3D files v100