

ISM 5 Click



PID: MIKROE-5978

ISM 5 Click is a compact add-on board designed for seamless integration into a wide range of applications requiring efficient communication in the Sub-GHz 868MHz frequency band. This board features the Si4461, a high-performance, low-current transceiver from Silicon Labs known for its robust operation in time division duplexing (TDD) mode, enabling alternating transmission and reception of data packets. This board excels in processing signals with its support for multiple modulations, such as (G)FSK, 4(G)FSK, (G)MSK, and OOK, used by a DSP for enhanced filtering, demodulation and packet handling. Key features include exceptional receive sensitivity of -129dBm, low active and standby power consumption, and configurable data rates up to 1Mbps. This Click board™ is ideally suited for smart metering, home security, remote control, telemetry, and industrial control, offering developers a powerful tool for building advanced, energy-efficient wireless solutions.

ISM 5 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.

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	Sub-1 GHz Transceivers
Applications	Ideal for smart metering, home security, remote control, telemetry, and industrial control, offering developers a powerful tool for building advanced, energy-efficient wireless solutions
On-board modules	Si4461 - high-performance low-current transceiver from Silicon Labs
Key Features	Multiple modulation support, exceptional receive sensitivity, low power consumption, adjustable data rates, made for 868MHz frequency band, advanced packet handling, 64-byte FIFOs, SPI interface, shutdown and interrupt feature, and more
Interface	SPI
ClickID	Yes
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[ISM 5 click example on Libstock](#)

[ISM 5 click 2D and 3D files](#)

[ISM 5 click schematic](#)

[SI4461 datasheet](#)

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