

ISM RX 3 Click



PID: MIKROE-4828

ISM RX 3 Click is a compact add-on board that contains a Sub-GHz RF receiver. This board features the [MAX41470](#), a high-performance, low-power receiver ideal for amplitude shift-keyed (ASK) and frequency shift-keyed (FSK) data from [Analog Devices](#). It can be configured for three sub-1GHz bands using an onboard 16MHz crystal: 287MHz to 320MHz, 425MHz to 480MHz, and 860MHz to 960MHz, fully programmable through an SPI interface. The receiver has excellent RF sensitivity and long-range, allows input signals up to 0dBm of power at the RF input, and features a fully programmable, self-polling (duty cycling) mode with preamble detection and interrupt output to wake up an external MCU. This Click board™ is suitable for cost- and power-sensitive applications, such as home automation and security, building access control, remote keyless entry, garage or gate doors control, and similar applications.

ISM RX 3 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.

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	Can be used for home automation and security, building access control, remote keyless entry, garage or gate doors control, and similar applications
On-board modules	MAX41470 - sub-GHz ISM RF receiver from Maxim Integrated, now part of Analog Devices
Key Features	Long range with high sensitivity, low power consumption, high performance, self-polling (remote wake-up) for reduced power, gain and frequency control, and more
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[MAX41470 datasheet](#)

[ISM RX 3 click schematic](#)

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

[ISM RX 3 click example on Libstock](#)

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