

ISM TX Click



PID: MIKROE-4242

ISM TX Click is a compact add-on board that contains an ASK and (G)FSK transmitter with a programmable SPI interface. This board features the [MAX41460](#), a UHF sub-GHz ISM/SRD transmitter designed to transmit On-Off Keying (OOK), Amplitude- Shift Keying (ASK), Frequency-Shift Keying (FSK), and Gaussian (G)FSK (or 2GFSK) data from [Analog Devices](#). The fast response time of the integrated PLL allows for frequency-hopping, spread-spectrum protocols for increased range, and security. Its crystal-based architecture provides greater modulation depth, faster frequency settling, higher tolerance of the transmit frequency, and reduced temperature dependence. This Click board™ is fitting for remote low-speed communication, such as the remote keyless access, garage or gate doors control, home automation, and similar applications where this kind of communication is applicable.

ISM TX 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 a for remote low-speed communication, such as the remote keyless access, garage or gate doors control, home automation, and similar applications where this kind of communication is applicable.
On-board modules	ISM TX Click is based on the MAX41460, a UHF sub-GHz ISM/SRD transmitter designed to transmit On-Off Keying (OOK), Amplitude- Shift Keying (ASK), Frequency-Shift Keying (FSK), and Gaussian (G)FSK (or 2GFSK) data from Maxim Integrated.
Key Features	Increased range, data rates, and security, extend battery life with low supply current, selectable modes, greater modulation depth, faster frequency settling, higher tolerance of the transmit frequency, and more.
Interface	SPI
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

[MAX41460 datasheet](#)

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

[ISM TX click example on Libstock](#)

[ISM TX click schematic](#)

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