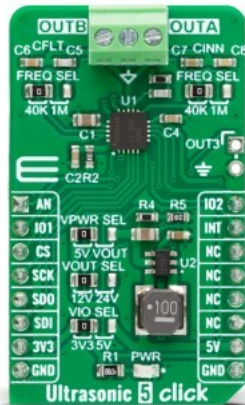


## Ultrasonic 5 Click



PID: MIKROE-5804

**Ultrasonic 5 Click** is a compact add-on board that contains circuits for processing the ultrasonic sensor's output. This board features the [TUSS4470](#), a transformer-drive ultrasonic sensor IC with a logarithmic amplifier from [Texas Instruments](#). In addition to the high selectability of the power supply of the IC itself, this board also allows you to choose between 40kHz and 1MHz operating frequency, with a signal zero crossing comparator as an option. The ultrasonic sensor, the [UTR-1440K](#) from PUI Audio, also comes in the same package with this Click board™. This Click board™ makes the perfect solution for the development of distance measuring applications, fluid flow and fluid-level systems, ultrasonic clearing systems, detecting glass breakage, and more.

Ultrasonic 5 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             | Miscellaneous   |
| Applications     | Can be used for the development of distance measuring applications, fluid flow and fluid-level systems, ultrasonic clearing systems, detecting glass breakage, and more   |
| On-board modules | TUSS4470 - transformer-drive ultrasonic sensor IC with a logarithmic amplifier from Texas Instruments   |
| Key Features     | Pre-driver mode, wide transducer frequencies, configurable drive stages, configurable burst patterns, configurable bandpass filter, zero-crossing comparator, interrupt on a programable threshold, high sensitivity, onboard voltage boost converter, and more |
| Interface        | SPI   |
| ClickID          | No  |
| Compatibility    | mikroBUS  |
| Click board size | M (42.9 x 25.4 mm)  |
| Input Voltage    | 3.3V or 5V  |

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[Ultrasonic 5 click example on Libstock](#)

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

[UTR-1440K-TT-R datasheet](#)

[TUSS4470 datasheet](#)

[TLV61046A datasheet](#)

[Ultrasonic 5 click schematic](#)

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