

Waveform 3 Click



PID: MIKROE-4432

Waveform 3 Click is a compact add-on board that represents a high-performance signal generator. This board features the AD9837, a low-power programmable waveform generator capable of producing sine, triangular, and square wave outputs from Analog Devices. This direct digital synthesizer creates arbitrary analog waveforms from a fixed-frequency reference clock. It has software programmable output frequency and phase via a 3-wire SPI serial interface and is compatible with DSP standards. This Click board™ is suitable for waveform generation required in various sensing, actuation, and time domain reflectometry (TDR) applications.

Waveform 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	Clock generator
Applications	Can be used for waveform generation required in various sensing, actuation, and time domain reflectometry (TDR) applications.
On-board modules	AD9837 - low-power programmable waveform generator capable of producing sine, triangular, and square wave outputs from Analog Devices
Key Features	Low power consumption, high precision, digitally programmable frequency and phase, sinusoidal, triangular, and square wave outputs, power-down option, 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

[Waveform 3 click 2D and 3D files](#)

[Waveform 3 click schematic](#)

[AD9837 datasheet](#)

[Waveform 3 click example on Libstock](#)

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