

## Waveform 2 Click



PID: MIKROE-4346

**Waveform 2 Click** is a compact add-on board that contains a direct digital synthesis device for waveform generator applications. This board features the AD9834, a 75 MHz low power DDS device capable of producing high-performance sine/triangle/square outputs from [Analog Devices](#). It provides the capability for phase and frequency modulation and has an on-board comparator that allows the production of a square wave signal for clock generation. With a 75 MHz clock rate resolution of 0.28Hz can be achieved, while similarly, with a 1 MHz clock rate an AD9834 can be tuned to 0.004Hz resolution. This Click board™ represents an ideal candidate for power-sensitive applications, frequency stimulus/waveform generation, frequency phase tuning and modulation, and many more.

Waveform 2 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 power-sensitive applications, frequency stimulus/waveform generation, frequency phase tuning and modulation, and many more.
On-board modules	Waveform 2 Click is based on the AD9834, a 75 MHz low power DDS device capable of producing high-performance sine/triangle/square outputs from Analog Devices.
Key Features	Low power consumption, high-performance sine/triangle/square outputs, capability for phase and frequency modulation, on-board comparator, and more.
Interface	I2C,SPI
ClickID	No
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

[24AA64 datasheet](#)

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

[Waveform 2 click example on Libstock](#)

[Waveform 2 click schematic](#)

[AD9834 datasheet](#)

[ADM8829 datasheet](#)

[THS4551 datasheet](#)

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