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## 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  $\underline{\mathsf{mikroSDK}}$  compliant library, which includes functions that simplify software development. This  $\underline{\mathsf{Click}}$  board  $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$  comes as a fully tested product, ready to be used on a system equipped with the  $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$  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.





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## **Specifications**

Туре	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

www.mikroe.com

## Resources

mikroBUS™

<u>mikroSDK</u>

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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health and safety management system.