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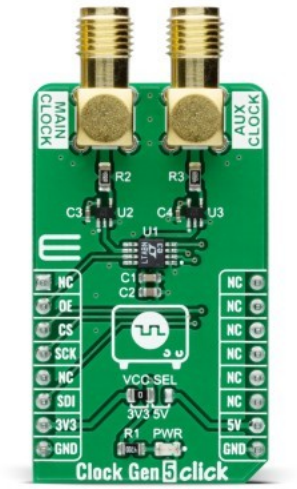
Clock Gen 5 Click



PID: MIKROE-4413

Clock Gen 5 Click is a compact add-on board that contains a digital programmable oscillator solution. This board features the LTC6903, a low-power self-contained digital frequency source providing a precision frequency from 1kHz to 68MHz set through a 3-wire SPI digital interface from Analog Devices. The LTC6903 features a proprietary feedback loop that linearizes the relationship between digital control setting and frequency and provides a smaller, more reliable, and vastly more versatile clocking solution. The frequency between 1kHz and 68MHz is set by a 16-bit control word, typically accurate within 1.1% with a resolution of 0.1% or better. This Click board™ is suitable for applications such as MCU clock source, clock source for a switched capacitor filter, or general replacement for a DAC/VCO combination.

Clock Gen 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.

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Specifications

Type	Clock generator
Applications	Can be used for applications such as MCU clock source, clock source for a switched capacitor filter, or general replacement for a DAC/VCO combination
On-board modules	LTC6903 - a low-power self-contained digital frequency source providing a precision frequency from 1kHz to 68MHz set through a 3-wire digital interface from Analog Devices.
Key Features	Low power consumption, more reliable and vastly more versatile clocking solution, precision frequency from 1kHz to 68MHz, proprietary feedback loop, 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

Clock Gen 5 click schematic

TC7SZ125FU datasheet

Clock Gen 5 click 2D and 3D files

Clock Gen 5 click example on Libstock