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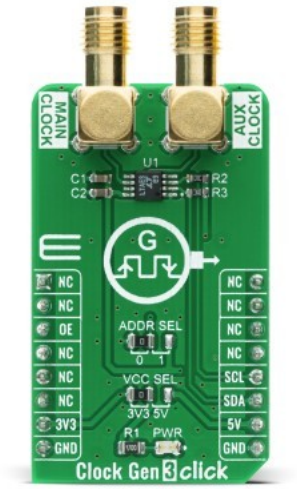
Clock Gen 3 Click



PID: MIKROE-4171

Clock Gen 3 Click features a low power self-contained digital frequency source providing a precision frequency from 1kHz to 68MHz, set through a serial port. This Click board™, an I2C configurable clock generator, features the LTC6904 from Analog Devices and requires no external components other than a power supply bypass capacitor, and it operates over a single wide supply voltage range of 2.7V to 5.5V. The LTC6904 features a proprietary feedback loop that linearizes the relationship between digital control settings and frequency. It has many features that make it attractive for various applications such as a microcontroller clock source, clock source for a switched capacitor filter, or general replacement for a DAC/VCO combination.

Clock Gen 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.

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Specifications

Type	Clock generator
Applications	Can be used as a microcontroller clock source, clock source for a switched capacitor filter, or general replacement for a DAC/VCO combination.
On-board modules	LTC6904
Key Features	Precision frequency generator from 1KHz to 68MHz, minimal jitter and subharmonics at the output, on-board I2C address jumpers
Interface	GPIO,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Clock Gen 3 click 2D and 3D files

Clock Gen 3 click example on Libstock

LTC6904 datasheet

Clock Gen 3 click schematic