

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.

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 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](#)

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