

Clock Gen 4 Click



PID: MIKROE-4300

Clock Gen 4 Click is a compact add-on board that contains both a clock generator and a multiplier/jitter reduced clock frequency synthesizer. This board features the CS2200-CP, an analog PLL architecture comprised of a Delta-Sigma fractional-N frequency synthesizer from [Cirrus Logic](#). This clocking device utilizes a programmable phase lock loop and allows frequency synthesis and clock generation from a stable reference clock. It generates a low-jitter PLL clock from an external crystal, supports both I²C and SPI for full software control, and also has configurable auxiliary clock output. This Click board™ is suitable for MCU clock source, or in applications like digital effects processors, digital mixing consoles, and many more.

Clock Gen 4 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 an MCU clock source, or in applications like digital effects processors, digital mixing consoles, and many more.
On-board modules	Clock Gen 4 Click is based on the CS2200-CP, an analog PLL architecture comprised of a Delta-Sigma fractional-N frequency synthesizer from Cirrus Logic.
Key Features	High-performance analog/digital phase locked loop, clock generation/frequency synthesis and multiplier/jitter reduction, flexible control options, configurable auxiliary output, 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

[Clock Gen 4 click 2D and 3D files](#)

[CS2200-CP datasheet](#)

[Clock Gen 4 schematic](#)

[Clock Gen 4 click example on Libstock](#)

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