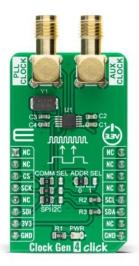


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## Clock Gen 4 Click





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 lowjitter 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<sup>™</sup> 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 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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