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Clock Gen Click

PID: MIKROE-4113

Clock Gen Click offers an ideal replacement for crystals, crystal oscillators, VCXOs, phase-locked loops (PLLs), and fanout buffers in cost-sensitive applications. This click features the Si5351A from Silicon Labs, an I2C configurable clock generator based on a PLL + high resolution MultiSynth fractional divider architecture which can generate any frequency up to 200 MHz on each of its outputs with 0 ppm error. The Si5351A is capable of generating synchronous or free-running non-integer related clock frequencies at each of its outputs (CLK0, CLK1, and CLK2), enabling one device to synthesize clocks for multiple clock domains in a design. It eliminates the need for higher cost, custom pullable crystals while providing reliable operation over a wide tuning range. The Si5351C offers the same flexibility but synchronizes to an external reference clock.

Clock Gen 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	Audio/video equipment, gaming, printers, scanners, projectors, handheld instrumentation, laser range finder, residential gateways, network/communication, servers, storage, XO replacement.
On-board modules	Clock Gen Click uses the SI5351A-B-GT IC, a configurable clock generator, from Silicon Labs.
Key Features	Configurable clock generator with three outputs, freq generator from 2.5 kHz to 200 MHz, very low power consumption
Interface	I2C
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 click example on Libstock

SI5351 datasheet

Clock Gen click 2D and 3D files

Clock Gen click schematic

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