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Clock Gen 6 Click

PID: MIKROE-4973

Clock Gen 6 Click is a compact add-on board representing a digital oscillator solution. This board features the MIC1557, an IttyBitty CMOS RC oscillator designed to provide rail-to-rail pulses for precise time delay or frequency generation from Microchip Technology. The MIC1557 has a single threshold and trigger connection, internally connected, for astable (oscillator) operation only. It also has an enable/reset control signal routed to the RST pin of the mikroBUS™ socket, which controls the bias supply to the oscillator's internal circuitry and optimizes power consumption used for oscillator power ON/OFF purposes. In addition, it provides the ability to select the desired frequency programmed via a digital potentiometer, the MAX5401. This Click board™ is suitable for pulse generation, precision timer, time-delay generation, and similar applications.

Clock Gen 6 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 for applications such as pulse generation, precision timer, time-delay generation, and more
On-board modules	MIC1557 - RC oscillator from Microchip Technology
Key Features	Low power consumption, high precision, astable oscillator operation, programmable output, enable/reset feature, and more
Interface	GPIO,SPI
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Clock Gen 6 click example on Libstock

MIC1557 datasheet

MAX5401 datasheet

Clock Gen 6 click schematic

Clock Gen 6 click 2D and 3D files