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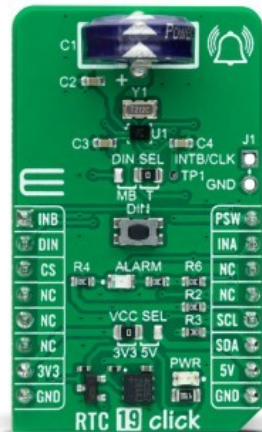Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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RTC 19 Click

PID: MIKROE-5426

RTC 19 Click is a compact add-on board that measures the passage of real-time. This board features the MAX31334, an I2C-configurable real-time clock with an integrated power switch from Analog Devices. The MAX31334 provides information like seconds, minutes, hours, days, months, years, and dates based on a 32.768kHz quartz crystal through an I2C serial interface to transmit time and calendar data to the MCU. It also has an alarm function that outputs an interrupt signal to the MCU when the day of the week, hour, or minute matches with the pre-set time, as well as a programmable square-wave output, event detection input with timestamping, and backup supply. This Click board™ is suitable for general-consumer applications, including daily alarms, metering applications, and others requiring an accurate RTC for their operation.

RTC 19 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.

Specifications

Type	RTC
Applications	Can be used for general-consumer applications, including daily alarms, metering applications, and others requiring an accurate RTC for their operation
On-board modules	MAX31334 - real-time clock from Analog Devices
Key Features	Low power consumption, automatic backup supply switch, integrated power switch, high accuracy, clock/calendar feature, programmable interrupt and clock output, automatic leap year recognition, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

RTC 19 click example on Libstock

MAX31334 datasheet

RTC 19 click schematic

RTC 19 click 2D and 3D files