MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
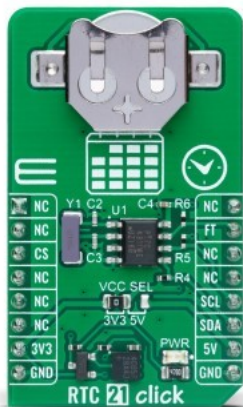Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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RTC 21 click

PID: MIKROE-5541

RTC 21 Click is a compact add-on board that accurately keeps the time of the day. This board features the PT7C4311, an I2C-configurable real-time clock module with programmable square-wave output from Diodes Incorporated. The PT7C4311 includes time and calendar functions providing various information such as hour, minute, second, day, date, month, year, and century. It operates in a 24-hour format indicator, has automatic leap year compensation, and low power consumption, allowing it to be used with a single button cell battery for an extended period. This Click board™ is suitable for various time-keeping applications, including daily alarms, metering applications, and others requiring an accurate RTC for their operation.

RTC 21 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 various time-keeping applications, including daily alarms, metering applications, and others requiring an accurate RTC for their operation
On-board modules	PT7C4311 - real-time clock (RTC) from Diodes Incorporated
Key Features	Low power consumption, programmable square-wave output, high-speed I2C interface, clock/calendar counter, 24-hour format, 56 bytes RAM, automatic lepa year compensation, automatic backup switchover, 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 21 click example on Libstock

RTC 21 click 2D and 3D files

PT7C4311 datasheet

RTC 21 click schematic