

## RTC 20 Click



PID: MIKROE-5600

**RTC 20 Click** is a compact add-on board that measures the passage of real-time. This board features the [AB0805](#), an I2C-configurable real-time clock with a highly sophisticated feature set from Abracon LLC. The AB0805 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 automatic leap year compensation, low power consumption, and full RTC functions such as battery backup, programmable counters, and alarms for timer and watchdog functions. 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 20 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.

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.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## 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	AB0805 - real-time clock from Abracon LLC
Key Features	Low power consumption, programmable square-wave output, high-speed I2C interface, clock/calendar counter, 256 bytes RAM, automatic leap year compensation, automatic backup switchover, alarms for timer and watchdog functions, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[RTC 20 click example on Libstock](#)

[AB0805 datasheet](#)

[RTC 20 click 2D and 3D files](#)

[RTC 20 click schematic](#)

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