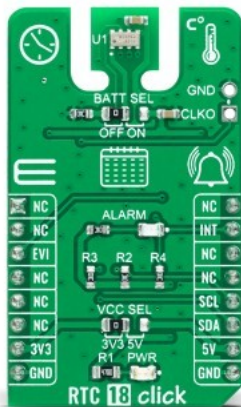


## RTC 18 Click



PID: MIKROE-5192

**RTC 18 Click** is a compact add-on board that accurately keeps the time of a day. This board features the [RV-3032-C7](#), an I2C-configurable real-time clock module that incorporates an integrated CMOS circuit and an XTAL from [Micro Crystal AG](#). The RV-3032-C7 is a temperature compensated RTC with premium accuracy (0.22 sec/day) and extremely low power consumption, allowing it to be used with a single button cell battery for an extended period. It can measure temperature with a typical accuracy of  $\pm 1^{\circ}\text{C}$  and a resolution of  $0.0625^{\circ}\text{C}/\text{step}$  with a programmable alarm on top and bottom temperature limits. It features standard RTC functions with automatic leap year correction, and standard interrupt for Periodic Countdown Timer and Periodic Time Update (seconds, minutes), date/hour/minute alarm, and an external event. 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 18 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	RV-3032-C7 - real-time clock/calendar module optimized for low power operations from Micro Crystal AG
Key Features	Low power consumption, temperature compensated, high accuracy, clock/calendar feature, battery back-up, programmable interrupt and clock output, automatic leap year recognition up to the year 2099, 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 18 click example on Libstock](#)

[RTC 18 click schematic](#)

[RV-3032-C7 datasheet](#)

[RTC 18 click 2D and 3D files](#)

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