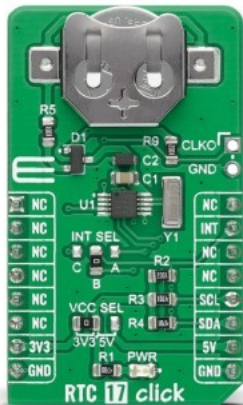


RTC 17 Click



PID: MIKROE-5129

RTC 17 Click is a compact add-on board that accurately keeps the time of a day. This board features the RV5C387A, a CMOS real-time clock with a built-in interrupt generation function from Nisshinbo Micro Devices Inc, to perform serial transmission of time and calendar data to the MCU. The BU9873 provides information like year, month, day, weekday, hours, minutes, and seconds 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 preset time. 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 17 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	RV5C387A - I2C configurable real-time clock/calendar optimized for low power operations from Nisshinbo Micro Devices Inc
Key Features	Low power consumption, programmable periodic and alarm with interrupt capability, clock/calendar feature, battery back-up, 32kHz clock output, automatic leap year recognition up to the year 2099, and more
Interface	I2C
ClickID	No
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 17 click example on Libstock](#)

[RV5C387A datasheet](#)

[RTC 17 click 2D and 3D files](#)

[RTC 17 click schematic](#)

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